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PRODUCT CATALOGUE 2020



WHAT WE DO

At Wharfedale Pro we create the high quality, affordable sound reinforcement products for professional musicians, touring rigs and corporate installations. Our products are found in venues from superclubs to shopping malls around the world.

A combination of a passion for music and stringent quality control stemming from one of the world's most famous loudspeaker company's means that power, reliability and great value are what we're known for, and we're proud of it.

WHERE IT CAME FROM

Wharfedale Pro has a heritage built on supreme quality audio spanning back to the 1930s. Founded in Britain by Gilbert Briggs in 1932, Wharfedale was initially a home hi-fi loudspeaker manufacturer, and still is today as a separate brand.

THE TEAM

Our designers are pooled from the finest within each of their disciplines. R&D takes place on an international scale with designers and electronics engineers from the United Kingdom, Japan, China and Hong Kong.

MANUFACTURING QUALITY

Our fully ISO9001 approved factory utilises the most advanced manufacturing equipment including a full production suite for our own tooling. Such is the level of our vertical integration that from pulp to finished product, from chassis manufacture to winding the voice coils and manufacturing the PCBs for the crossover - 95% is done in-house.

IRIS X DRIVER TECHNOLOGIES

The coil size and electrical sensitivity of a loudspeaker transducer is critical to its performance. Many Wharfedale Pro loudspeakers now include our proprietary IRIS X design which delivers Increased coil Radius and Increased electrical Sensitivity. The radius of the coil ensures smooth heat dissipation during prolonged high volume use, while the increased electrical sensitivity ensures that the transducer converts as much electrical power into sound output as the laws of physics allow.

A hot transducer wastes energy, risks damage and distorts. IRIS X reduces this through improved heat dissipation and improved efficiency.

In real-world terms, IRIS X transducers deliver higher SPL with less distortion. They lead the market with specifications and are designed and built entirely within Wharfedale Pro.

I Increased
R Radius
I Increased
S Sensitivity



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PSX Series

POWER TO THE PEOPLE

The new PSX112 (12", 350w Continuous) and PSX115 (15", 450w Continuous) active loudspeakers are a powerful and high quality PA solution for any sound project constrained by budget.

Constructed of durable polypropylene and using a full-face steel front grille, PSX are robust and versatile - ideal for DJ's, musicians and installations.

Custom Wharfedale Pro drivers have been used. Both models use a class-leading 1.75" HF compression driver to ensure clear and accurate high frequency performance. Meanwhile the 2.0" voice coils used in the LF drivers give efficient power handling, even at extreme volumes.

Both models are bi-amplified using Class D for the LF and a newly designed Class AB amplifier for the HF. This combination gives a great power to price ratio.

Simple operation is the key though - with +/-12dB treble and bass controls and straightforward connectivity, even the most inexperienced user can achieve great sound.

NO FANS

The internal amplifiers are so efficient that they do not need big cooling fans.

Fans add to noise and reduce product reliability and that is why all Wharfedale Pro active loudspeakers use convection cooling.

It is silent and has no moving parts to wear out.



PSX112
350w CONTINUOUS
700w PEAK

PSX115
450w CONTINUOUS
900w PEAK

- Bi-amplified with high power output
- Easy operation
- Portable and durable
- Custom Wharfedale Pro drivers
- 1.75" HF compression driver
- Convection cooling - No fans - silent operation
- 4 x M8 rigging points
- Optional soft covers available



M8 rigging points. PSX112 and PSX115 have 4 rigging points in total

Switchable Mic/Line input connectors

Convection cooling. No fans!

2-band EQ HF and LF +/-12dB

Balanced XLR Link output

Handle. PSX112 and PSX115 have 3 handles in total



Active PA Speakers



Model Name	PSX112	PSX115
System Type	Active 12" 2-way Bi-Amplified	Active 15" 2-way Bi-Amplified
Frequency Response (+/-3dB)	55Hz - 20kHz	50Hz -20kHz
Sensitivity @ 1w / 1m	96dB	97dB
Maximum SPL (peak @1m)	128dB	130dB
Low Frequency Transducer		
Size (mm / inches)	305mm / 12"	381mm / 15"
Coil Size (mm / inches)	50.8mm / 2.0"	50.8mm / 2.0"
Impedance	4Ω	4Ω
High Frequency Transducer		
Type	Compression Driver	Compression Driver
Coil Size (mm / inches)	44.5mm / 1.75"	44.5mm / 1.75"
Exit Size (mm / inches)	25mm / 1"	25mm / 1"
Diaphragm Material	Titanium	Titanium
Impedance	8Ω	8Ω
High Frequency Coverage (H x V)	90° x 60°	90° x 60°
Amplifiers		
Low-Frequency Power Amplifier (Class D)	250w Continuous / 500w Peak	350w Continuous / 700w Peak
High-Frequency Power Amplifier (Class AB)	100w Continuous / 200w Peak	100w Continuous / 200w Peak
Crossover Frequency	HI PASS 2.5kHz LOW PASS 2.5kHz	HI PASS 2.4kHz LOW PASS 2.4kHz
Equalization	+/-12dB Gain for bass and treble	+/-12dB Gain for bass and treble
Power On Protection	Power switch on / off mute	Power switch on / off mute
Thermal Protection	Amplifier shutdown, auto reset	Amplifier shutdown, auto reset
Driver, DC and Short Protection	Yes	Yes
Limiter Indicator	Red LED	Red LED
Power Indicator	Green LED	Green LED
Input type	Balanced	Balanced
Input Connectors	TRS JACK AND FEMALE XLR	TRS JACK AND FEMALE XLR
Input Impedance	47KΩ Balanced	47KΩ Balanced
Maximum Input Level	5V	5V
Line Input Sensitivity	-10dB	-10dB
Mic Input Sensitivity	-40dB	-40dB
Line Output Connector	MALE XLR	MALE XLR
Power Supply	SMPS	SMPS
AC Power Options	100V-120V and 200V-240V	100V-120V and 200V-240V
Power On Indicator	LED	LED
Rigging / Bracket / Mounting Options	4 x M8 35mm Pole-mount with lock screw 3 carry handles (one each side, one on top)	4 x M8 35mm Pole-mount with lock screw 3 carry handles (one each side, one on top)
Enclosure Material	Injection Moulded Polypropylene	Injection Moulded Polypropylene
Colour	black	black
Grille	1.2mm steel	1.2mm steel
Dimensions (Unpacked) (mm / inches):		
Height	603mm / 23.7"	603mm / 23.7"
Width - Front	377mm / 14.8"	455mm / 17.9"
Width - Rear	217mm / 8.54"	262mm / 10.3"
Depth	347mm / 13.7"	401.8mm / 15.1"
Dimensions (packed)(mm / inches):		
Height	666mm / 26.2"	762mm / 30.0"
Width	430mm / 16.9"	508mm / 20.0"
Depth	408mm / 16.1"	425mm / 16.7"
Net Weight (kg / lbs)	15.0kg / 33.0lbs	19.2kg / 42.2lbs
Gross Weight (kg / lbs)	17.0kg / 37.4lbs	22.0kg / 48.4lbs

Typhon-AX12 Series

THE NEW FACE OF ACTIVE PA.



Titanium Compression Driver



Lightweight



Internal DSP



Ready for Rigging



Moisture Rejection



100° x 80° Hybrid Symmetry horn

NEW

**720W CONTINUOUS
1440W PEAK**



Two new models are available. Typhon-AX12 - a 12" 2-way 720w Continuous active loudspeaker and an aptX Bluetooth enabled brother - the Typhon-AX12-BT. The all new internal amplifiers deliver over 140% more power than Titan-AX12.

A completely new polypropylene cabinet design with a full frontal steel grille houses the most advanced active loudspeaker ever created by Wharfedale Pro. This injection moulded cabinet is carefully engineered to feature 5 carry handles making transportation easy and well balanced.

New internal DSP algorithms generate a sound stage which surpasses the dimensions of the cabinet. The two separate Class D power amps (600w Continuous for the LF and 120w Continuous for the HF) deliver huge output power while keeping the overall weight to minimum. The efficiency of the amplifier stage means that Typhon uses convection cooling - resulting in a more reliable product with quieter operation.

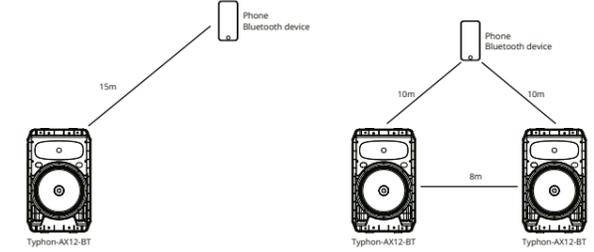
Custom Wharfedale Pro transducers have been selected for Typhon. The custom compression driver features a 1.75" voice coil. This is coupled to a 100° x 80° waveguide for smooth HF dispersion. The custom Wharfedale Pro 12" LF transducer has a newly designed ferrite core, uses flat coil windings to aid cooling, and features a moisture rejecting cone material which allows Typhon to be used in damp or humid conditions.

The Typhon-AX12-BT features aptX Bluetooth input connectivity and stereo linking which makes setup with mobile devices simple and cable free.

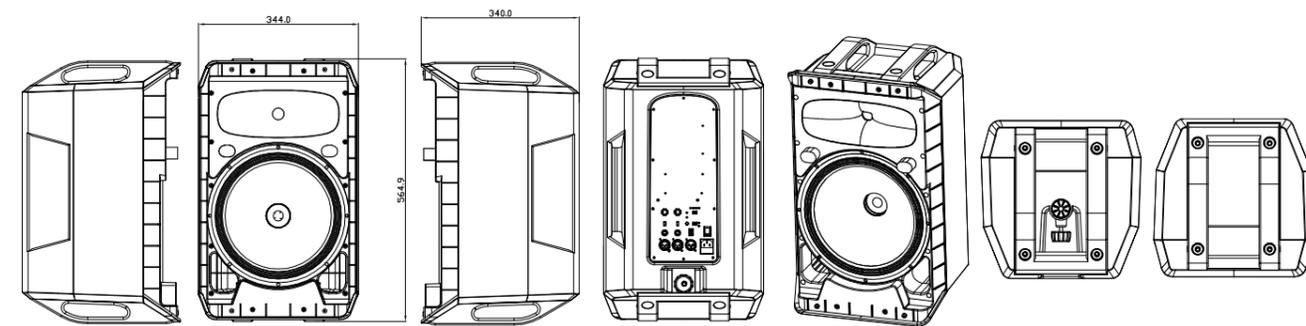
Active PA Speakers



Typhon-AX12-BT features Bluetooth and Stereo linking



- 720w Continuous (1440w peak)
- Fresh new design with full frontal steel grille
- Top and bottom practical handles
- Bluetooth model available Typhon-AX12-BT
- Bi-amplified with Class D amps
- 4 position DSP
- Supplied with monitor wedge adaptor for perfect onstage monitor angle



Typhon-AX12 Series

THE NEW FACE OF ACTIVE PA.



Titanium
Compression Driver



Lightweight



Internal DSP



Ready for Rigging



Moisture Rejection



100° x 80° Hybrid
Symmetry horn

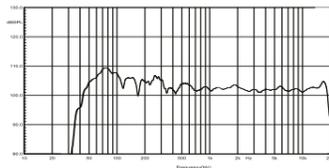
ADVANCED DSP

The DSP inside Typhon-AX12 and Typhon-AX12-BT is extremely powerful.

Here we describe the 4 modes and their possible real-life applications.

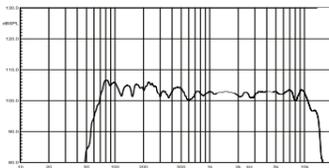
FLAT

The Flat mode is 'the truth'. This mode is ideal for when connecting guitar effects processors directly to a Typhon-AX12. Full Range, Flat Response. Simply YOUR sound.



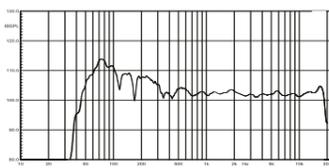
MONITOR

This mode rolls off low frequencies which are not needed when Typhon-AX12 is on the floor. High frequencies are also attenuated to reduce risk of feedback.



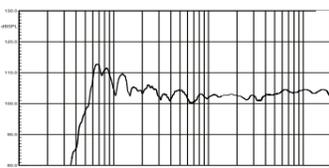
BASS

By pushing the bass frequencies, this mode is ideal when Typhon-AX12 is being used at lower volumes. It delivers a more powerful sound without having to turn the volume up.



PUNCH

A 'crisp' and 'tight' DSP mode which gives the impression of power. Use this when you really need to cut through.



Active PA Speakers



Model Name	Typhon-AX12	Typhon-AX12-BT
System Type	Active 12" 2-way	Active 12" 2-way with Bluetooth
Frequency Response (+/-3dB)	55Hz-20kHz	55Hz-20kHz
Frequency Range (-10 dB)	50Hz-20kHz	50Hz-20kHz
Maximum SPL @1m	129dB	129dB
Sensitivity @ 1W / 1m)	98dB	98dB
LF Size (mm / inches)	305.0mm / 12"	305.0mm / 12"
LF Voice Coil Size (mm / inches)	65.0mm / 2.5"	65.0mm / 2.5"
LF Rated Impedance	4Ω	4Ω
HF Driver Type:	Compression Driver	Compression Driver
HF Coil Size (mm / inches)	44mm / 1.75"	44mm / 1.75"
HF Exit Size (mm / inches)	25mm / 1"	25mm / 1"
HF Diaphragm Material	Titanium	Titanium
HF Rated Impedance	8Ω	8Ω
Nominal Coverage (H x V)	Hybrid Symmetry Horn 100° x 80°	Hybrid Symmetry Horn 100° x 80°
Amplifiers		
Low-Frequency Power Amplifier	600w Continuous / 1200w Peak	600w Continuous / 1200w Peak
High-Frequency Power Amplifier	120w Continuous / 240w Peak	120w Continuous / 240w Peak
DSP Controls---D-EQ	FLAT / MONITOR / BASS / PUNCH	FLAT / MONITOR / BASS / PUNCH
Amplifier Protection		
Power On & Thermal Protection	Yes	Yes
Low Line Voltage Shut Down	Yes	Yes
Driver, DC & Short Protection	Yes	Yes
Clip Limiter	Yes	Yes
Limiter & Power indicators	Yes	Yes
Inputs and outputs		
Bluetooth connectivity	No	Bluetooth (aptX with Stereo linking)
Input Sensitivity	775mV (0dBu)	775mV (0dBu)
Maximum Input Level	4V	4V
Input Connector	2 x XLR, 2 x 6.3mm jack. Line level Input B	2 x XLR, 2 x 6.3mm jack. Line level Input B
Input Impedance	20K ohms	20K ohms
Line Output Connector	Balanced XLR	Balanced XLR
Loop Gain	0dB	0dB
Power Supply	220-240VAC/100-120VAC 50/60Hz	220-240VAC/100-120VAC 50/60Hz
Rigging / Bracket / Mounting Options	9 x M8 threaded inserts 35mm pole socket with lock screw	9 x M8 threaded inserts 35mm pole socket with lock screw
Handles	5 carry handles (on top and bottom side)	5 carry handles (on top and bottom side)
Enclosure Material and finish	Injection Moulded Polypropylene	Injection Moulded Polypropylene
Colour Options	Black paint	Black paint
Grille Material & Finish	Full face steel	Full face steel
Dimensions - Unpacked (mm / inches):		
Height	558.0mm / 22.0in	558.0mm / 22.0in
Width Front	344.0mm / 13.6in	344.0mm / 13.6in
Width Rear	245.0mm / 9.6in	245.0mm / 9.6in
Depth	340.0mm / 13.4in	340.0mm / 13.4in
Dimensions - Packed (mm / inches):		
Height	645.0mm / 25.4in	645.0mm / 25.4in
Width Front	425.0mm / 16.7in	425.0mm / 16.7in
Width Rear	425.0mm / 16.7in	425.0mm / 16.7in
Depth	419.0mm / 16.5in	419.0mm / 16.5in
Net Weight (kg / lbs)	16.2kg / 35.64lbs	16.2kg / 35.64lbs
Gross Weight (kg / lbs)	19.2kg / 42.24lbs	19.2kg / 42.24lbs

TITAN-AX

ACTIVE, VERSATILE AND LIGHTWEIGHT PA.



Titanium
Compression Driver



Lightweight



Internal DSP



Ready for Rigging



Moisture Rejection



100° x 80° Hybrid
Symmetry horn



For many years the name 'Titan' has become the benchmark for portable and versatile loudspeakers. It's a name that is trusted by artists and venues around the world, day in, day out.

However, technology advances... and so do we! Our all-new Titan-AX12 and AX15 active loudspeakers therefore now feature our cutting edge 6-position DSP engine and all-new HF and LF drivers. No other competitive model features such powerful and effective DSP or such advanced transducers.

Active PA Speakers



DSP

The all-new DSP engine provides sophisticated internal loudspeaker management functions. These include limiting, compression, signal delay, dynamic boost, dynamic cut, crossover control and parametric EQ. Micro adjustments within each parameter ensure sonic clarity over the full frequency range.

We've optimised these DSP parameters to create 6 user-friendly settings including Monitor, Speech, Bass, Punch and an exclusive mode called "Live". This Live mode applies different DSP settings to each of the 2 inputs - perfect for solo entertainers using a mic and a line level source.

INDOOR AND OUTDOOR INSTALLATION

The Titan-AX12 and AX15 feature moisture proof woofers which can withstand outdoor and extreme conditions. Additional protection can be found with the optional Titan Tourbags.

These custom made speaker bags have an unzippable front panel for maximum protection.



Titan-AX uses our latest IRIS X4 HF compression drivers.



I
R
I
S
Increased
Radius
Increased
Sensitivity



- New IRIS X4 HF Drivers have been honed acoustically for high-frequency detail and power
- New LF Drivers reject moisture for resistance in all environments
- New Proprietary 100° x 80° Hybrid Symmetry Horn design
- New category leading DSP functions
- New tweaked laminar rib structure
- Integral mixer functions
- AX12 - 300 watts programme / 600 watts peak
- AX15 - 420 watts programme / 840 watts peak
- Class D Bi-amplified
- Tough, yet lightweight Dynamic Polypropylene cabinet with rubber padded handles
- 10 x M8 rigging points and integral tripod stand adapter
- Rugged protective grille and top-stacking receptacles
- Trapezoid design for arrays as well as stage monitor applications
- Available in black or white
- Titan Tourbags available

TITAN 8A MKII

VERSATILE, LIGHTWEIGHT AND POWERED.



Lightweight



Moisture Rejection



Ready for Rigging



90° x 60° elliptical waveguide



Black and white versions

The Titan 8A MKII active PA speaker combines the Titan technology, materials and design topology, including a titanium compression driver and heavy-duty cast-frame woofer, to ensure absolute accuracy, high output and the smooth, wide dispersion of the critical mid and high frequency ranges. Whilst being ultra-compact and light weight it lends itself to a whole host of audio applications from gym installations, DJ booth monitors and public address.



INDOOR AND OUTDOOR INSTALLATION

Although the product weight and rubberised handles are perfect for the mobile musician, this technology also lends itself to installations where weight is an issue, not to mention that the polypropylene material and moisture proof woofers can withstand outdoor conditions.

Additional protection can be found with the Titan Tourbags, custom made speaker bags with an unzippable front panel meaning your Wharfedale Pro loudspeaker is always protected.

Titan 8A MKII is available in Black or White.

IP54 Certified



IP54 certification assures that the product has

- Limited protection against dust ingress.
- Protection against splash water from any direction.

This makes the Titan 8a MKII ideal for installations into hostile environments. Complete peace of mind and protection.

Poles, mounts and brackets

On the base of the Titan Series is a convenient pole mount socket that is used for easy mounting on a standard 35mm diameter speaker poles. Cord wrap and cable anchor features are also moulded into the enclosure to keep things tidy.

Threaded rigging points are provided for a variety of safe flying configurations and Titan 8A MKII can be wall mounted using the optional WPB-T8.



Optional WPB-T8 mounting kit



- 180W RMS / 360W Peak
- 124dB Max SPL
- 70Hz - 20kHz frequency response
- Custom Heavy duty moisture-proof 8" LF driver
- Proprietary 90° x 60° Elliptical Wave Guide Horn design
- High-end Titanium HF Compression Driver
- 2-band Hi / Low shelf EQ

- Multiple M6, M8 & M10 rigging points and integral tripod stand adapter
- Rugged protective grille and top-stacking receptacles
- Trapezoid shape for arrays as well as stage monitor applications
- Tough, yet lightweight Polypropylene molded cabinet with rubber padded handles

TITAN 12D / TITAN 15D

VERSATILE, LIGHTWEIGHT..... AND POWERED.



Titanium Compression Driver



Lightweight



Moisture Rejection



Ready for Rigging



90° x 60° elliptical waveguide

State of the art, bi-amplified class D active loudspeakers for use almost anywhere - band practice, on stage, in studios, at rehearsals, theaters and even in houses of worship.

DSP

The 12D and 15D models feature highly refined Qubit DSP. With advanced adaptive multi-band dynamic processing and filtering, Qubit helps fine tune your system to sound natural and open. Qubit processing optimises the loudspeaker to provide smooth digital crossover points that are perfectly aligned in terms of phase response and time-domain.



CONVENIENT MIXER CONTROL

The 12" and 15" models also feature a practical mixer on the rear panel for added convenience and control. The mixer uses two channels with balanced XLR and 1/4" jack connections. The first channel enables users to toggle microphone or line level gain controls, ideal for when fully-featured mixers are not available with a second line-level XLR channel. A balanced XLR output provides an option to send the mix back to additional mixers, monitors or speakers.

INDOOR AND OUTDOOR INSTALLATION

The Titan 12D and 15D feature moisture proof woofers which can withstand outdoor and extreme conditions. Additional protection can be found with the optional Titan Tourbags. These custom made speaker bags have an unzippable front panel for maximum protection.



Poles, mounts and brackets

On the base of the Titan Series is a convenient pole mount socket that is used for easy mounting on a standard 35mm diameter speaker poles. Cord wrap and cable anchor features are also moulded into the enclosure. Threaded rigging points are provided for a variety of safe flying configurations with four of these inserts available, bottom-mounted.

See the Accessories section of this catalogue for compatible mounting hardware.

- Q-Bit DSP processing
- Balanced XLR / Jack inputs with mic or line levels
- Custom Heavy duty moisture-proof LF drivers
- Proprietary 90° x 60° Elliptical Wave Guide Horn design
- High-end Titanium HF Compression Driver
- Tough, yet lightweight Polypropylene molded cabinet with rubber padded handles
- Multiple M6, M8 & M10 rigging points and integral tripod stand adapter
- Rugged protective grille and top-stacking receptacles
- Trapezoid shape for arrays as well as stage monitor applications
- 2-band Hi / Low shelf EQ
- Titan Tourbags available

Titan Subwoofers

DELIVERING LOW END PUNCH IN A PORTABLE PACKAGE



Titan Sub-A12

The Titan Sub-A12 is powerful 12" reflex subwoofer designed to provide bass extension for Titan 8A MKII for an incredibly portable sound reinforcement setup. A built-in 250 watt (continuous), 500 watt (peak) amplifier conveniently accepts stereo or mono line level inputs via dual, balanced, XLR-1/4" combo connectors.

12" active reflex subwoofer

- Low-frequency power amplifier (class D) 250w rms, 500w peak
- Preset integral peak limiter prevents signal distortion and amplifier clipping
- Integral phase switch with 0° and 180° selections
- Adjustable crossover frequency: 80hz/100hz/120hz/150hz/180hz/200hz
- High pass frequency selection:150hz
- Thermal, DC fault and short circuit protection
- XLR / 1/4 " combo jack inputs
- Balanced line level output
- Integral pole mount adapter



15" active reflex subwoofer

The Titan Sub-A15 MKII is a powerful 15" band pass active subwoofer. A built-in 400w (continuous) 600w (peak) amplifier conveniently accepts stereo or mono line level inputs via dual balanced XLR-1/4" combo connectors.

A custom designed, down-firing, aluminium cast frame 15" woofer, with a 3" voice coil, is used at the heart of the Titan Sub-A15's complementary low frequency enhancement system.



Titan-AX12



Titan Sub-A15 MKII

Titan Sub-A15 MKII



- 15" band pass active subwoofer
- Built-in 600w (peak), 400w (continuous) amplifier
- 0°, 180° PHASE switch
- High pass frequency selection: 100Hz
- Crossover frequency: 150Hz
- Thermal, DC fault and short circuit protection
- Power on and system AGC protect LED indicators
- Integral preset limiter prevents clipping and distortion
- Summed, stereo line level inputs combine the left and right signals to a single, mono signal, which is routed to the Titan Sub-A15 MKII internal amplifier
- A pair of an integral crossovers send a high-pass, balanced, line-level, stereo signal to a pair of powered satellite full-range speakers or an external amplifier for passive satellite speakers

SPECIFICATIONS



Model Name	Titan 8A MKII	Titan 12D	Titan 15D	Titan Sub A12
System Type	Active 8" 2-way Bi-Amplified	Active 12" 2-way Bi-Amplified	Active 15" 2-way Bi-Amplified	Active 12" Reflex Subwoofer
Frequency Response (+/-3dB)	70Hz-20kHz	55Hz-20kHz	50Hz-20kHz	55Hz-200Hz
Frequency Range (-10dB)	65Hz-20kHz	50Hz-20kHz	45Hz-20kHz	50Hz-200Hz
Calculated Maximum SPL @1m	124dB	128dB	129dB	127dB
LF Transducer Size (mm / inches)	205mm / 8"	305mm / 12"	381mm / 15"	305mm / 12"
Coil Size (mm / inches)	38.86mm / 1.53"	64.26mm / 2.5"	75mm / 3.0"	64.26mm / 2.5"
HF Transducer Type	Compression Driver	Compression Driver	Compression Driver	-
Coil Size (mm / inches)	25mm / 1"	44mm / 1.75"	51mm / 2.0"	-
Exit Size (mm / inches)	30mm / 1.2"	25mm / 1"	25mm / 1"	-
Diaphragm Material	Mylar	Titanium	Titanium	-
Nominal Coverage (H x V)	Elliptical waveguide 90° x 60°	Elliptical waveguide 90° x 60°	Elliptical waveguide 90° x 60°	-
Amplifiers				
Low-Frequency Power Amplifier RMS/Peak Watts	150/300W (Class D)	250/500W (Class D)	350/700W (Class D)	250/500W (Class D)
High-Frequency Power Amplifier RMS/Peak Watts	30/60W (Class D)	50/100W (Class D)	70/140W (Class D)	-
Controls---EQ	High (±10dB)10kHz Shelving Low (±10dB) 100Hz Shelving	High (±10dB)10kHz Shelving Low (±10dB) 100Hz Shelving	High (±10dB)10kHz Shelving Low (±10dB) 100Hz Shelving	Crossover filter : 80Hz - 200Hz (adjustable)
DSP	None	Qubit	Qubit	-
Hi Pass switch	-	90Hz	90Hz	150Hz
Amplifier Protection / Thermal protection	Yes	Yes	Yes	Yes
Low Line Voltage Shut Down	60% Nominal line voltage	60% Nominal line voltage	60% Nominal line voltage	60% Nominal line voltage
Driver Protection	Independent LF and HF limiters	Independent LF and HF limiters	Independent LF and HF limiters	Independent LF limiters
DC Protection / Short Protection	Yes	Yes	Yes	Yes
Clip Limiter	Turns on ~150W output	Turns on ~250W output	Turns on ~350W output	Turns on ~250W output
Limiter Indicator / Power Indicator	Red LED / Green LED	Red LED / Green LED	Red LED / Green LED	Red LED / Green LED
Connectors				
Input - type	Switchable balanced mic/line level	Switchable balanced mic/line level (Chan 1)	Switchable balanced mic/line level (Chan 1)	0 / 180° phase switch
Input Connector	XLR 1/4" Combo Jack	2 * XLR 1/4" Combo Jack (Chan 1 Line/MIC), 2 * RCA	2 * XLR 1/4" Combo Jack (Chan 1 Line/MIC), 2 * RCA	2 * XLR 1/4" Combo Jack
Line Output Connector	Switchable LOOP/MIX Balanced Female XLR	Switchable LOOP/MIX Balanced Female XLR	Switchable LOOP/MIX Balanced Female XLR	Hi Pass out : 2 * Balanced XLR
AC Power Supply	SMPS	SMPS	SMPS	SMPS
AC Power Options	AC100-120V~/220-240V~,50/60Hz	AC100-120V~/220-240V~,50/60Hz	AC100-120V~/220-240V~,50/60Hz	AC100-120V~/220-240V~,50/60Hz
Hardware				
Rigging / Bracket / Mounting Options	8 M6 threaded inserts inc 4 M6 threaded inserts on base in OmniMount 30.0-type footprint	10 M8 threaded inserts including 4 M8 threaded inserts on bottom in OmniMount 30.0-type footprint	10 M8 threaded inserts including 4 M8 threaded inserts on bottom in OmniMount 30.0-type footprint	-
	35mm with lock screw	35mm with lock screw	35mm with lock screw	35mm socket
	1 carry handle on side	2 carry handles (one on each side)	2 carry handles (one on each side)	2 carry handles (one on each side)
	Optional wall-mount bracket	Optional wall-mount bracket	Optional wall-mount bracket	N/A
LED Horn lighting (On/Off switch)	Yes	Yes	Yes	No
Enclosure Material and finish	Injection Moulded Polypropylene	Injection Moulded Polypropylene	Injection Moulded Polypropylene	15mm MDF
Colour Options	Grey / White / Black	Grey / White / Black	Grey / White / Black	Grey / Black
Grille Material & Finish	1.2mm steel	1.2mm steel	1.2mm steel	1.2mm steel
Dimensions - Unpacked - Height	396mm / 15.59"	582.7mm / 22.9"	728.5mm / 28.7"	360mm / 14.2"
Width Front	266mm / 10.47"	384.6mm / 15.1"	480.6mm / 18.9"	493mm / 19.4"
Depth	221mm / 8.7"	318.6mm / 12.5"	395.6mm / 15.6"	431mm / 16.9"
Dimensions - packed - Height	463mm / 18.2"	663mm / 26.1"	830mm / 32.7"	440mm / 17.3"
Width Front	325mm / 12.8"	435mm / 17.1"	514mm / 20.2"	560mm / 22.0"
Depth	282mm / 11.1"	408mm / 16.1"	489mm / 19.3"	440mm / 17.3"
Net Weight (kg / lbs)	6.25kg / 13.75lbs	12.4kg / 27.28lbs	22.94kg / 50.3lbs	22.31kg / 49.0lbs
Gross Weight (kg / lbs)	8.75kg / 17.94lbs	15.5kg / 34.1lbs	27.7kg / 60.9lbs	26.26kg / 57.8lbs

SPECIFICATIONS



Model Name	Titan Sub-A15 MKII	Titan-AX12	Titan-AX15
System Type	Active 15" Optimally-Vented Subwoofer	Active 12" 2-way Bi-Amplified	Active 15" 2-way Bi-Amplified
Frequency Response (+/-3dB)	45Hz-150Hz	55Hz-20kHz	50Hz-20kHz
Frequency Range (-10dB)	40Hz-150Hz	50Hz-20kHz	40Hz-20kHz
Calculated Maximum SPL @1m	129dB	128dB	129dB
LF Transducer Size (mm / inches)	381mm / 15"	305mm / 12"	381mm / 15"
Coil Size (mm / inches)	64.26mm / 2.5"	64.26mm / 2.5"	75mm / 3.0"
HF Transducer Type	-	Compression Driver	Compression Driver
Coil Size (mm / inches)	-	44mm / 1.75"	44mm / 1.75"
Exit Size (mm / inches)	-	25mm / 1"	25mm / 1"
Diaphragm Material	-	Titanium	Titanium
Nominal Coverage (H x V)	-	Hybrid Symmetry Horn 100° x 80°	Hybrid Symmetry Horn 100° x 80°
Amplifiers			
Low-Frequency Power Amplifier RMS/Peak Watts	400/600W (Class D)	250/500W (Class D)	350/700W (Class D)
High-Frequency Power Amplifier RMS/Peak Watts	-	50/100W (Class D)	70/140W (Class D)
Controls---EQ	Crossover filter : 80Hz - 200Hz (adjustable)	Note - EQ changed by DSP knob	Note - EQ changed by DSP knob
DSP	-	6 user presets	6 user presets
Hi Pass switch	100Hz	90Hz	90Hz
Amplifier Protection / Thermal protection	Yes	Yes	Yes
Low Line Voltage Shut Down	85% Nominal line voltage	60% Nominal line voltage	60% Nominal line voltage
Driver Protection	Independent LF limiters	Independent LF and HF limiters	Independent LF and HF limiters
DC Protection / Short Protection	Yes	Yes	Yes
Clip Limiter	Turns on ~400W output	Turns on ~250W output	Turns on ~350W output
Limiter Indicator / Power Indicator	Red LED / Green LED	Red LED / Green LED	Red LED / Green LED
Connectors			
Input - type	0 / 180° phase switch	Switchable balanced mic/line level (Chan 1)	Switchable balanced mic/line level (Chan 1)
Input Connector	2 * balanced 1/4" Jack and XLR	2 * XLR & 2 * 1/4" jack (Chan 1 Line/MIC)	2 * XLR & 2 * 1/4" jack (Chan 1 Line/MIC)
Line Output Connector	Hi Pass out : 2 * Balanced XLR. Thru out : 2 * Balanced XLR	Switchable LOOP/MIX Balanced Female XLR	Switchable LOOP/MIX Balanced Female XLR
AC Power Supply	SMPS	SMPS	SMPS
AC Power Options	AC100-120V~/220-240V~,50/60Hz	AC100-120V/220-240V~ 50/60Hz	AC100-120V/220-240V~ 50/60Hz
Hardware			
Rigging / Bracket / Mounting Options	-	10 M8 threaded inserts including 4 M8 threaded inserts on bottom in OmniMount 30.0-type footprint	10 M8 threaded inserts including 4 M8 threaded inserts on bottom in OmniMount 30.0-type footprint
	35mm socket	35mm receptacle with lock screw	35mm receptacle with lock screw
	2 carry handles (one on each side)	2 carry handles (one on each side)	2 carry handles (one on each side)
	N/A	Optional wall-mount bracket	Optional wall-mount bracket
LED Horn lighting (On/Off switch)	No	Yes	Yes
Enclosure Material and finish	15mm Plywood	Injection Moulded Polypropylene	Injection Moulded Polypropylene
Colour Options	Grey / Black	Black / White	Black / White
Grille Material & Finish	1.2mm steel	1.2mm steel	1.2mm steel
Dimensions - Unpacked - Height	455mm / 17.9"	582.7mm / 22.9"	728.5mm / 28.7"
Width Front	470mm / 18.5"	384.6mm / 15.1"	480.6mm / 18.9"
Depth	630mm / 24.8"	318.6mm / 12.5"	395.6mm / 15.6"
Dimensions - packed - Height	550mm / 21.7"	663mm / 26.1"	830mm / 32.7"
Width Front	565mm / 22.3"	435mm / 17.1"	514mm / 20.2"
Depth	725mm / 28.5"	408mm / 16.1"	489mm / 19.3"
Net Weight (kg / lbs)	26.0kg / 57.31lbs	12.4kg / 27.28lbs	22.94kg / 50.3lbs
Gross Weight (kg / lbs)	30.7kg / 67.7 lbs	15.5kg / 34.1lbs	27.7kg / 60.9lbs

DVP-AX Series

POWERED AND ROAD-READY!

DVP-AX is a comprehensive new lineup of versatile and road-ready active loudspeakers. Class D amplification housed in ultra hard wearing cabinets make DVP-AX a perfect choice for hardworking DJ's and musicians on the road.



The full-range models feature advanced DSP processing with 6 presets tailored to overcome many real-life sonic challenges and a practical 2 channel mic/line mixer makes life on stage easier.

The floor monitor models feature a 7-band EQ to help deliver maximum volume without feedback and a handy slave output for connecting to passive floor monitors.

While the electronics of DVP-AX set them apart from the competition, it is important not to overlook the custom Wharfedale Pro drivers in this lineup. Using dual layer LF transducers and the acclaimed IRIS compression drivers, the mechanical features of DVP-AX have not been compromised.

DVP-AX delivers advanced electronics in a user-friendly format - but in a road-ready cabinet.



I Increased
R Radius
I Increased
S Sensitivity

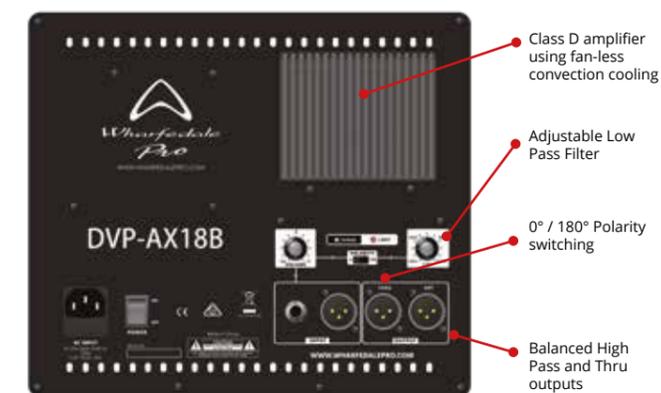


Active PA Speakers

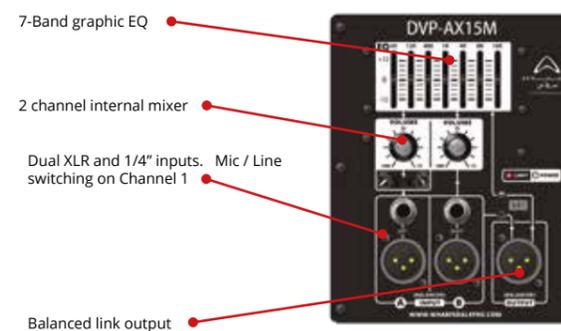


FULL RANGE MODELS DVP-AX12 / DVP-AX15 / DVP-AX215

SUBWOOFERS DVP-AX15B / DVP-AX18B



MONITORS DVP-AX12M / DVP-AX15M



- Advanced DSP system on full range models
- Efficient, convection cooled, Class D amplification
- 90° x 60° elliptical waveguides
- Dual layer LF transducers

- Monitors feature 7-band EQ and Slave output
- Subwoofers feature adjustable LFP
- Solid MDF construction with Rhino Rock finish
- Powerful, practical and road-ready

SPECIFICATIONS



Model Name	DVP-AX12	DVP-AX12M	DVP-AX15	DVP-AX15M
System Type	Active 12" 2-way	Active 12" 2-way monitor	Active 15" 2-way	Active 15" 2-way monitor
Frequency Response (+/-3dB)	60-18kHz	60-18kHz	50-18kHz	55-18kHz
Frequency Range (-10 dB)	55-20kHz	55-20kHz	45-20kHz	50-20kHz
Maximum SPL @1m	129dB	129dB	130dB	130dB
Sensitivity @ 1W / 1m	98dB	98dB	98dB	98dB
LF transducer Size (mm / inches)	305mm/12"	305mm/12"	381mm/15"	381mm/15"
LF Coil Size (mm / inches)	Dual layer 2.5"	Dual layer 2.5"	Dual 2 layer 2.5"	Dual 2 layer 2.5"
HF transducer : Type	Compression Driver	Compression Driver	Compression Driver	Compression Driver
HF Coil Size (mm / inches)	44mm/1.75"	44mm/1.75"	44mm/1.75"	44mm/1.75"
HF Exit Size (mm / inches)	25mm/1"	25mm/1"	25mm/1"	25mm/1"
HF Diaphragm Material	Titanium	Titanium	Titanium	Titanium
Nominal Coverage (H x V)	90° x 60°	90° x 60°	90° x 60°	90° x 60°
LF Power Amplifier -Class D, RMS/Peak Watts	150W/300W	250W/500W(8Ω) 500W/1000W(4Ω)	350W/700W	250W/500W(8Ω) 500W/1000W(4Ω)
HF Power Amplifier -Class D, RMS/Peak Watts	50W/100W	N/A	50W/100W	N/A
DSP	Yes	7-band EQ	Yes	7-band EQ
Controls--D-EQ	1:FLAT 2:MONITOR 3:SPEECH 4:BASS 5:PUNCH 6:LIVE	60Hz 120Hz 480Hz 1kHz 4kHz 8kHz 16kHz	1:FLAT 2:MONITOR 3:SPEECH 4:BASS 5:PUNCH 6:LIVE	60Hz 120Hz 480Hz 1kHz 4kHz 8kHz 16kHz
Amplifier Protection. Power On, Thermal, low voltage	Yes	Yes	Yes	Yes
Driver Protection,DC, Short, Clip indicator	Yes	Yes	Yes	Yes
Limiter Indicator	Red LED	Red LED	Red LED	Red LED
Power Indicator	Green LED (Red LED front)	Green LED (Red LED front)	Green LED (Red LED front)	Green LED (Red LED front)
INPUTS : Input Sensitivity : Balanced	775mv	775mv	775mv	775mv
Maximum Input Level	4v	6v	4v	6v
Input Connector	2*XLR & 2*1/4" (Line/MIC)	2*XLR & 2*1/4" (Line/MIC)	2*XLR & 2*1/4" (Line/MIC)	2*XLR & 2*1/4" (Line/MIC)
Input Impedance	Balanced:20K	Balanced:20K	Balanced:20K	Balanced:20K
LPF control	N/A	N/A	N/A	N/A
Polarity Control	N/A	N/A	N/A	N/A
OUTPUTS : Line Output Connector	XLR	XLR(Balanced out)	XLR	XLR(Balanced out)
AC Power Options : SMPS	220-240V 50/60Hz 100-120V 50/60Hz	220-240V 50/60Hz 100-120V 50/60Hz	220-240V 50/60Hz 100-120V 50/60Hz	220-240V 50/60Hz 100-120V 50/60Hz
Pole socket	Dual-angle (0°/10°) 35 mm socket	N/A	Dual-angle (0°/10°) 35 mm socket	N/A
Handles	2 carry handles (one on each side)	2 carry handles (one on each side)	2 carry handles (one on each side)	2 carry handles (one on each side)
Enclosure Material and finish	MDF / Black paint	MDF / Black paint	MDF / Black paint	MDF / Black paint
Grille Material & Finish	steel	steel	steel	steel
Dimensions - Unpacked (mm / inches): Height	617mm/24.3"	428mm/16.9"(SITU)	689mm/27.1"	520mm/20.5"(SITU)
Width	361.2mm/14.2"	359mm/14.1"	443.5mm/17.5"	449mm/17.7"
Width (rear)	207.6mm/8.2"	359mm/14.1"	243.5mm/9.6"	449mm/17.7"
Depth	342.4mm/13.5"	537mm/21.1"	429.0mm/16.9"	640mm/25.2"
Dimensions - Packed (mm / inches):Height	680mm/26.8"	396mm/15.6"	750mm/29.5"	485mm/19.1"
Width	438mm/17.3"	573mm/22.6"	520mm/20.5"	676mm/26.6"
Width (rear)	236mm/9.3"	573mm/22.6"	290mm/11.4"	676mm/26.6"
Depth	428mm/16.9"	448mm/17.6"	485mm/19.1"	541mm/21.3"
Net Weight (kg / lbs)	18.7kg/41.1lbs	18.5kg/40.7lbs	23.8kg/52.4lbs	23.5kg/51.7lbs
Gross Weight (kg / lbs)	21.4kg/47.1lbs	21.4kg/47.1lbs	27.3kg/60.1lbs	27.2kg/59.8lbs

SPECIFICATIONS



Model Name	DVP-AX215	DVP-AX15B	DVP-AX18B
System Type	Active 2 x 15" 2-way	Active 15" subwoofer	Active 18" subwoofer
Frequency Response (+/-3dB)	45-18kHz	45-150Hz	35-150Hz
Frequency Range (-10 dB)	40-20kHz	38-150Hz	30-150Hz
Maximum SPL @1m	135dB	130dB	132dB
Sensitivity @ 1W / 1m	101dB	98dB	99dB
LF transducer Size (mm / inches)	2 * 381mm / 15"	381mm / 15"	470mm / 18"
LF Coil Size (mm / inches)	Dual 2 layer 2.5"	Dual layer 2.5"	Quad layer 2.5"
HF transducer : Type	Compression Driver	-	-
HF Coil Size (mm / inches)	44mm / 1.75"	-	-
HF Exit Size (mm / inches)	25mm / 1"	-	-
HF Diaphragm Material	Titanium	-	-
Nominal Coverage (H x V)	90° x 60°	-	-
LF Power Amplifier -Class D, RMS/Peak Watts	500W/1000W	600W/1200W	600W/1200W
HF Power Amplifier -Class D, RMS/Peak Watts	70W/140W	-	-
DSP	Yes	N/A	N/A
Controls--D-EQ	1:FLAT 2:MONITOR 3:SPEECH 4:BASS 5:PUNCH 6:LIVE	N/A	N/A
Amplifier Protection. Power On, Thermal, low voltage	Yes	Yes	Yes
Driver Protection,DC, Short, Clip indicator	Yes	Yes	Yes
Limiter Indicator	Red LED	Red LED	Red LED
Power Indicator	Green LED (Red LED front)	Green LED (Red LED front)	Green LED (Red LED front)
INPUTS : Input Sensitivity : Balanced	775mv	775mv	775mv
Maximum Input Level	4v	6v	6v
Input Connector	2*XLR & 2*1/4" (Line/MIC)	XLR & 1/4" (Line/MIC)	XLR & 1/4" (Line/MIC)
Input Impedance	Balanced:20K	Balanced:20K	Balanced:20K
LPF control	N/A	80Hz-120Hz	80Hz-120Hz
Polarity Control	N/A	0°/180°	0°/180°
OUTPUTS : Line Output Connector	XLR	XLR THRU/HPF(OUT)	XLR THRU/HPF(OUT)
AC Power Options : SMPS	220-240V 50/60Hz 100-120V 50/60Hz	220-240V 50/60Hz 100-120V 50/60Hz	220-240V 50/60Hz 100-120V 50/60Hz
Pole socket	N/A	35 mm pole socket	35 mm pole socket
Handles	2 carry handles (one on each side)	2 carry handles (one on each side)	2 carry handles (one on each side)
Enclosure Material and finish	MDF / Black paint	MDF / Black paint	MDF / Black paint
Grille Material & Finish	steel	steel	steel
Dimensions - Unpacked (mm / inches): Height	1058mm/41.7"	591mm/23.3"	650mm/25.6"
Width	444.5mm/17.5"	454mm/17.9"	528mm/20.8"
Width (rear)	245.3mm/9.7"	454mm/17.9"	528mm/20.8"
Depth	429.0mm/16.9"	534mm/21.0"	639mm/25.2"
Dimensions - Packed (mm / inches):Height	1125mm/44.3"	681mm/26.8"	740mm/29.1"
Width	520mm/20.5"	620mm/24.4"	725mm/28.5"
Width (rear)	290mm/11.4"	620mm/24.4"	725mm/28.5"
Depth	496mm/19.5"	540mm/21.3"	614mm/24.2"
Net Weight (kg / lbs)	34.3kg/75.5lbs	29.9kg/65.8lbs	38.3kg/84.3lbs
Gross Weight (kg / lbs)	38.7kg/85.1lbs	34.9kg/76.8lbs	44.2kg/97.2lbs

Active PA Speakers

EVP-XPM

DEDICATED FLOOR MONITORS



Keep it tidy

EVP-XPM active floor monitors have been specifically designed to give maximum versatility on stage. These are not just active monitors turned sideways but are built specifically as floor monitors. The inclusion internal amplification, a 5-band graphic EQ and well thought out connectors, reduces unnecessary cabling and additional hardware on stage. The balanced input uses a combi XLR/jack connector so it's easy to always find suitable connection cables.

Power out

EVP-XPM's also feature a unique powered 'Speaker output' jack. This allows for connection to a passive slave monitor (such as the EVP-X15M MKII) without the need for additional amplification or complex cabling. One active EVP-XPM can also drive your second passive floor monitor.

Protection

Externally the EVP-XPMs are protected by a durable carpet finish. Internally the Dynamic / AGC protection circuitry provides extreme protection at both the driver and the amplifier stage so the EVP-XPM can be played at maximum levels over long periods without fear of system failure. The Green LED on the front of the EVP-XPM illuminates when the AGC is activated, similar to the orange LED on the front of the amplifier.

	EVP-X12PM	EVP-X15PM
Configuration	2-way Bi-Amplified	2-way Bi-Amplified
High Frequency Transducer	1.75" Titanium Compression Driver	1.75" Titanium Compression Driver
Low Frequency Transducer	12"	15"
Frequency Response	50Hz - 20kHz	50Hz - 20kHz
Power (RMS/Peak)	300W / 500W	300W / 500W
EQ	5-Band	5-Band
Enclosure Finish	Black Carpet	Black Carpet
Input	1 x XLR Jack / Combi	1 x XLR Jack / Combi
Output	1 x XLR, 1 x 6.3mm Jack (Powered output)	1 x XLR, 1 x 6.3mm Jack (Powered output)
Protection	Dynamic / AGC protection circuitry	Dynamic / AGC protection circuitry
Dimensions (H x W x D)	560mm X 424mm X 441mm	675mm X 445mm X 473.5mm
Net Weight	22.5kg	27.4kg

ISOLINE

POWERFUL, YET DISCREET COLUMN FORMATION PA SYSTEMS WITH BLUETOOTH



Bluetooth



Lightweight



3" Full Range Drivers



Designed for live Performance



Built-in Mixer



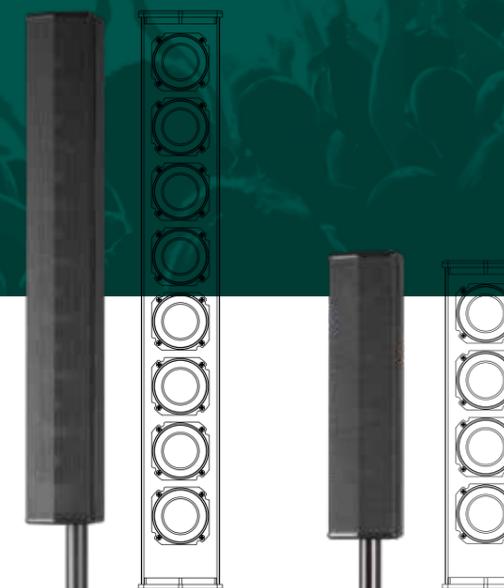
Durable, Painted Speaker Cabinet

Isoline is the fastest route to a professional, compact PA system. Made up of a column formation loudspeaker interconnected with a high powered subwoofer with its own built-in amplifier, Isoline delivers a full-range sound from a system that is easily packed down into a car boot with ease. For ultimate convenience Isoline comes complete with a built-in mixer and wireless Bluetooth input.

MORE CONNECTIONS, LESS GEAR

Isolines' built-in mixer gives complete control over the 2 x XLR / Jack combi inputs (with mic and line level) plus the phono inputs - Perfect for mixing backing tracks, live vocals and instruments. The Bluetooth input is also easily paired with any mobile device in seconds. This gives users an intuitive interface between a tablet or mobile device and the PA system. Either way - Isoline delivers convenience.

There are even padded optional tour bags available. See the last page of this Product Catalogue.



ISOLINE 812

- 500W RMS / 800W Peak
- 40Hz - 20kHz Frequency Response
- 8 x 3" High / Mid Drivers
- 12" long throw subwoofer

ISOLINE 410

- 380W RMS / 650W Peak
- 50Hz - 20kHz Response
- 4 x 3" High / Mid Drivers
- 10" long throw subwoofer



EZ-12A / EZ-15A

EXTREMELY PORTABLE PA . WHERE WILL YOU GO WITH YOURS?



EZ-15A

EZ-12A



Includes two wireless handheld mics and an IR remote control

EZ-A models

- Battery powered and extremely portable
- USB/TF card MP3 player
- Bluetooth input and IR Remote control
- Includes 2 wireless handheld microphones
- Internal Echo processor
- Pull up trolley handle
- 2 integral handles
- User-friendly rear panel controls
- EZ-15A : 118dB Max SPL @ 1 meter
- EZ-12A : 115dB Max SPL @ 1 meter
- 100v-240v AC input

Active PA Speakers



SPECIFICATIONS

Model Name	EZ-12A	EZ-15A
System Type	Active portable PA	Active portable PA
Frequency range	65Hz - 18kHz	55Hz - 18kHz
Impedance	4Ω	4Ω
LF Transducer size	12"	15"
LF Transducer voice coil	38mm / 1.5"	38mm / 1.5"
HF Transducer	1"	1"
Dispersion (H x V)	90° x 50°	90° x 50°
Max SPL	115dB	118dB
Mic input	XLR and 1/4" jack	XLR and 1/4" jack
Line input	L/R RCA connector	L/R RCA connector
Line output	L/R RCA connector	L/R RCA connector
5-Band graphic EQ	63Hz / 80Hz / 480Hz / 3kHz / 10kHz +/-12dB	63Hz / 80Hz / 480Hz / 3kHz / 10kHz +/-12dB
Rx : Wireless mic	2 models available (600 - 606 MHz or 863 - 865 MHz)	2 models available (600 - 606 MHz or 863 - 865 MHz)
Wireless handheld microphones	2 pcs included	2 pcs included
Wireless microphone range	40m (theoretical value)	40m (theoretical value)
Echo	Yes	Yes
MP3 player	Yes (USB/TF)	Yes (USB/TF)
Bluetooth range	10m	10m
Power (Peak)	100w	140w
Battery power	Up to 5 hours. (6 hours charge time)	Up to 5 hours. (6 hours charge time)
Amp THD	0.1% 20Hz-20kHz	0.1% 20Hz-20kHz
Amp frequency response	20Hz - 20kHz +/-1dB	20Hz - 20kHz +/-1dB
Input voltage	100v-240v 50Hz/60Hz	100v-240v 50Hz/60Hz
Dimensions	420 x 350 x 640mm	490 x 400 x 740mm
Net weight	10.5kg	13.7kg
Gross weight	12.5kg	15.8kg

DELTA-AX

OUR FLAGSHIP DELTA-X SERIES - AMPLIFIED AND REFINED



2" Titanium
Compression HF



Active Models



Low Distortion,
Maximum Efficiency



Ready for Rigging



Performance you can
depend on



Rhino Rock Paint

Specifically designed as a multi-purpose solution the new DELTA-AX provides high-end active sound reinforcement for touring applications and professional musicians.

NEW

DELTA-AX15

DELTA-AX12



DELTA-AX15B



DELTA-AX18B



Bi-Amplification with DSP

Capable of producing extraordinary levels of SPL and output, inside every DELTA-AX speaker is a high headroom amplifier exclusively engineered by Wharfedale Pro. The 2 way 12" and 15" models also feature an integrated 2 channel mixer with onboard Qubit DSP insuring smoother and more controlled sonic performance.

Ready for a life time on the road

DELTA-AX is constructed from birch plywood and features dual angle pole mounts to ensure that your sound is aimed directly at the audience, not at the ceiling.

...and ready for installation

Multiple rigging points and durable construction also make DELTA-AX a great installation solution. Clubs, restaurants and houses of worship around the world already rely on DELTA systems day in, day out.

Evolutionary refinement

The new DELTA-AX series features improved internal electronics. Newly designed power components ensure high performance and extreme reliability.

DELTA-AX can easily be recognised with the iconic Wharfedale Pro boomerang logo routed into the top surface.



Active PA Speakers

Connectivity and control



DELTA-AX12 / DELTA-AX15 rear panel



DELTA-AX15B / DELTA-AX18B rear panel

DELTA-AX12 / DELTA-AX15

- 2-way Bi-Amplified speaker system
- Low frequency power amplifier 650W RMS, 1300W peak (CLASS D)
- High frequency power amplifier 100W RMS, 200W peak (CLASS D)
- 56-bit, 192kHz DSP processing
- Independent LF and HF signal limiting
- Thermal, DC and short circuit fault protections
- Bass / Treble EQ controls
- Switchable 90Hz monitor filter

DELTA-AX15B

- 15" Active subwoofer
- Low frequency power amplifier 900W RMS, 1800W peak
- 130dB Max SPL
- High headroom class D amplifier
- 42-200Hz frequency response
- 15" woofer with 4" voice coil
- Adjustable crossover: 80Hz-200Hz
- 100Hz high pass filter output
- Integral phase switch 0° and 180°

DELTA-AX18B

- 18" Active subwoofer
- Low frequency power amplifier 1000W RMS, 2000W peak
- 132dB Max SPL
- High headroom class D amplifier
- 38-200Hz frequency response
- 18" woofer with 4" voice coil
- Adjustable crossover: 80Hz-200Hz
- 100Hz high pass filter output
- Integral phase switch 0° and 180°

- Combo XLR/1/4" jack balanced line or mic inputs
- Female XLR balanced line level output
- Rear panel mic/line level switch
- Rear panel LED defeat switch
- Remote volume control (applied voltage controlled)
- 90° x 45° elliptical Wave Guide (EWG)
- Dual-angle (0° or 10°) 35mm pole socket
- Suspension points 6 x M10 threaded
- Black rhino paint finish with boomerang logo
- 15mm plywood construction



SPECIFICATIONS



Model Name	DELTA-AX12	DELTA-AX15	DELTA-AX15B	DELTA-AX18B
System Type	Active 12" 2-way Bi-Amplified	Active 15" 2-way Bi-Amplified	Active 15" Subwoofer	Active 18" Subwoofer
Frequency Response (+/-3dB)	60Hz - 20kHz	50Hz - 20kHz	42Hz - 200Hz	38Hz - 200Hz
Frequency Range (-10dB)	55Hz - 20kHz	45Hz - 20kHz		
Calculated Maximum SPL @1m	130dB	131dB	130dB	132dB
Low Frequency Transducer - Size (mm / inches)	332mm / 12"	404mm / 15"	404mm / 15"	470mm / 18"
Coil Size (mm / inches)	75mm / 3"	75mm / 3"	101.6mm / 4"	101.6mm / 4"
Impedance	4Ω	4Ω	8Ω	8Ω
High Frequency Transducer - Type	Compression Driver	Compression Driver	-	-
Coil Size (mm / inches)	51.2mm / 2"	51.2mm / 2"	-	-
Exit Size (mm / inches)	35.6mm / 1.4"	25mm / 1"	-	-
Diaphragm Material	Titanium	Titanium	-	-
Impedance	8Ω	8Ω	-	-
Nominal Coverage (H x V)	90° x 45°	90° x 45°	-	-
Amplifiers				
Low-Frequency Power Amplifier RMS	600w (Class D)	600w (Class D)	900w (Class D)	1000w (Class D)
High-Frequency Power Amplifier RMS	100w (Class D)	100w (Class D)	NA	NA
Amplifier Protection	Yes	Yes	Yes	Yes
Power On Protection	Power switch on/off mute	Power switch on/off mute	Power switch on/off mute	Power switch on/off mute
Thermal Protection	Amplifier Shut Down, Auto Reset	Amplifier Shut Down, Auto Reset	Amplifier Shut Down, Auto Reset	Amplifier Shut Down, Auto Reset
Low Line Voltage Shut Down	80% Nominal Line Voltage	80% Nominal Line Voltage	80% Nominal Line Voltage	80% Nominal Line Voltage
Driver Protection	Independent LF and HF Limiters	Independent LF and HF Limiters	Yes	Yes
DC and Short Protection	Yes	Yes	Yes	Yes
Clip Limiter	Turns on Approx 650w Output	Turns on Approx 650w Output	Turns on Approx 900w Output	Turns on Approx 1000w Output
Limiter Indicator	Red LED	Red LED	Red LED	Red LED
Power Indicator	Green LED	Green LED	Green LED	Green LED
Connectors				
Input A - type	Switchable Balanced Mic or Line Level Input	Switchable Balanced Mic or Line Level Input	Balanced	Balanced
Input Sensitivity	Mic:-40dBu Line:0dBu	Mic:-40dBu Line:0dBu	Line:0dBu	Line:0dBu
Maximum Input Level	22dBu	22dBu	22dBu	22dBu
Input Connector	XLR 1/4" Combo jack / 2 x RCA	XLR 1/4" Combo jack / 2 x RCA	TRS jack and Female XLR	TRS jack and Female XLR
Input Impedance	Balanced:20KΩ Unbalanced:10KΩ	Balanced:20KΩ Unbalanced:10KΩ	Balanced:20KΩ Unbalanced:10KΩ	Balanced:20KΩ Unbalanced:10KΩ
Line Output Connector	Switchable LOOP/MIX Balanced Male XLR Connector	Switchable LOOP/MIX Balanced Male XLR Connector	Male XLR Connector	Male XLR Connector
Impedance Balanced	Balanced: 200Ω Unbalanced:100Ω	Balanced: 200Ω Unbalanced:100Ω	Balanced: 200Ω Unbalanced:100Ω	Balanced: 200Ω Unbalanced:100Ω
Loop Gain	0dB	0dB	0dB	0dB
AC Power details - Power Supply	High Efficiency SMPS	High Efficiency SMPS	High Efficiency SMPS	High Efficiency SMPS
AC Power Options	AC100-120V~/220-240V~,50/60HZ	AC100-120V~/220-240V~,50/60HZ	AC100-120V~/220-240V~,50/60HZ	AC100-120V~/220-240V~,50/60HZ
Power On Indicator	Green LED	Green LED	Green LED	Green LED
Hardware - Rigging	M10 x 6	M10 x 6		
Enclosure Material and finish	15mm Plywood	15mm Plywood	15mm Plywood	15mm Plywood
Colour Options	Black Rhino Paint	Black Rhino Paint	Black Rhino Paint	Black Rhino Paint
Grille Material & Finish	1.2 Steel	1.2 Steel		
Unpacked dimensions - Height	640mm / 25.2"	700mm / 27.56"	471mm / 18.54"	539mm / 21.22"
Width (Front)	390mm / 15.35"	446mm / 17.56"	471mm / 18.54"	539mm / 21.22"
Width (Back)	241.2mm / 9.5"	281.4mm / 11.08"	471mm / 18.54"	539mm / 21.22"
Depth	373mm / 14.69"	406mm / 15.98"	600mm / 23.62"	650mm / 25.59"
Packed Dimensions - Height	745mm / 29.3"	803mm / 31.6"	556mm / 21.89"	624mm / 24.57"
Width (Front)	566mm / 22.3"	638mm / 25.1"	672mm / 26.46"	722mm / 28.43"
Width (Back)	328mm / 12.9"	366mm / 14.4"	672mm / 26.46"	722mm / 28.43"
Depth	464mm / 18.3"	498mm / 19.6"	543mm / 21.38"	611mm / 24.06"
Net Weight (kg / lbs)	27.9kg / 61.2lbs	33kg / 72.6lbs	33.1kg / 72.82lbs	38.4kg / 84.48lbs
Gross Weight (kg / lbs)	32.5kg / 71.5lbs	38.5kg / 84.7lbs	36.7kg / 80.74lbs	44.3kg / 97.46lbs

Active PA Speakers

PDM-100

PERSONAL DRUM MONITOR

NEW



- 10" woofer with 2" soft dome tweeter
- 100w continuous bi-amplified power
- Multiple balanced and stereo inputs
- Headphone output
- Practical and portable design
- MDF construction

SPECIFICATIONS

Product Code	PDM-100
Rated Output Power	LF 90w / HF 10w Continuous
Nominal input level	Mic input : -6dBu (10kΩ) Line input : -6dBu (10kΩ)
Speaker	1 x 10" woofer 1 x 2" HF tweeter
Controls	Power switch Volume knob Line 1 Volume knob MIC Volume knob AUX Hi, MID and LOW frequency EQ knobs
Pilot Lamp	Power
Interface	Mic input jack Line 1 input jack AUX / Line2 input jacks Headphone output AC IN jack
Power	100w
Dimensions (W x D x H)	388mm x 407mm x 354mm
Weight	13.5kg

In the rehearsal studio or onstage

The PDM-100 is a new active floor monitor - ideal for electronic drums.

The portable two-way speaker system is powered by two separate amplifiers. This bi-amplification delivers a crisp and loud output. A 10" LF driver efficiently handles the transients of percussive electronic instruments, while the 2" tweeter accurately reproduces the highs needed for sharp and detailed cymbals and hats. Rated at 100w Continuous, PDM-100 has the power to cut through.

PDM-100 is equipped with balanced XLR, jack and stereo mini jack inputs - each with separate input volume controls - so connection to other sources, such as mp3 players, microphones and other electronic musical instruments, is easy. A handy 3-band EQ section also allows for quick and easy tonal control. You can even connect headphones.

For practical transportation there is also a robust bar handle around the back.



TITAN-Z

THE MOST POWERFUL TITANS



Titanium
Compression Driver



Lightweight



Moisture Rejection



Ready for Rigging



100° x 80° Hybrid
Symmetry horn



Performance you can
depend on

TITAN-X

VERSATILE AND LIGHTWEIGHT - DURABLE FOR INDOORS AND OUT



Titanium
Compression Driver



Lightweight



Moisture Rejection



Ready for Rigging



100° x 80° Hybrid
Symmetry horn



Black and white versions



Titan-12Z

2000w Peak



Titan-15Z

2800w Peak

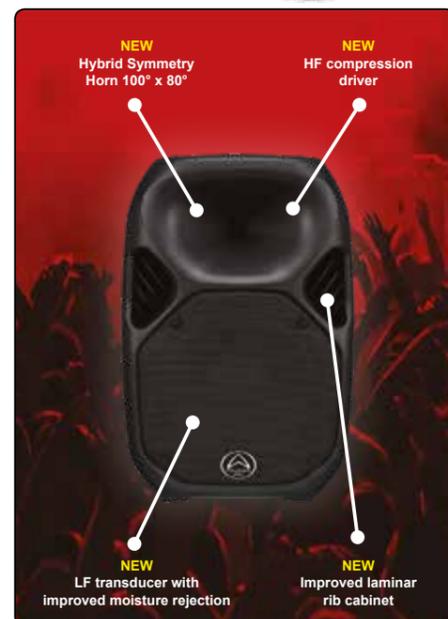
The highest power handling Titans - EVER !

Do not be deceived by familiar looks. The new Titan Z's may appear cosmetically to be the same as our TITAN-X - but, it is what is inside that matters.

Titan-12Z and 15Z feature extreme power handling transducers with high electrical sensitivity. This results in unimaginable power handling specifications and remarkable SPL. Custom built Wharfedale Pro drivers are what makes this possible.

The new 15Z features an enormous 4" LF voice coil for breath-taking power handling capabilities along with an enhanced compression driver with a 2" coil. Meanwhile the smaller 12Z features a category leading 3" LF voice coil and our acclaimed IRIS X compression driver with its 1.75" voice coil.

- Extended-range, super sensitive Titanium dome HF drivers
- New 2" voice coil HF compression driver (15Z)
- Titan 12Z - 132dB Max SPL - 2000w peak
- Titan 15Z - 133.5dB Max SPL - 2800w peak
- Massive voice coils for improved heat dissipation and power handling
- Compatible with all Titan mounting hardware.



Our versatile passive Titans

The Titan-X12 and X15 now feature all-new HF and LF drivers. The IRIS X4 HF compression driver has been completely re-evaluated for both coverage and sound quality ensuring a much smoother sound, especially at high output.

The all-new LF driver has improved moisture rejection characteristics which allows TITAN-X to be installed into hostile environments.

We have also tweaked the laminar rib cabinet structure to improve structural strength for durability and acoustic performance. TITAN-X raises the bar for portable PA and is built to last.

- HF Drivers have been honed acoustically for HF-frequency detail and power
- LF Drivers reject moisture for resistance in all environments
- Proprietary 100° x 80° Hybrid Symmetry Horn design
- Tough, yet lightweight Dynamic Polypropylene cabinet with rubber padded handles
- 10 x M8 rigging points and integral tripod stand adapter
- Rugged protective grille and top-stacking receptacles
- Trapezoid design for arrays as well as stage monitor applications
- Available in black or white



INDOOR AND OUTDOOR INSTALLATION

Both Titan-Z and Titan-X feature moisture proof woofers which can withstand outdoor and extreme conditions. Additional protection can be found with the optional Titan Tourbags. These custom made speaker bags have an unzippable front panel for maximum protection.



TITAN 12 / TITAN 15

VERSATILE AND LIGHTWEIGHT - DURABLE FOR INDOORS AND OUT

- 
Lightweight
- 
Moisture Rejection
- 
Ready for Rigging
- 
Performance you can depend on
- 
90° x 60° elliptical waveguide
- 
Black and white versions



TITAN 12



TITAN 15

TITAN 12 and TITAN 15

On the road or for the installation, the classic Titan 12 and Titan 15 have become a trusted favourite around the world.

Lightweight and powerful these versatile passive loudspeakers deliver great sound in any environment.

- Tough, yet lightweight Polypropylene molded cabinet with rubber padded handles
- Multiple M6, M8 & M10 rigging points and integral tripod stand adapter
- Rugged protective grille and top-stacking receptacles
- Trapezoid shape for arrays as well as stage monitor applications
- Lightweight Passive PA Series
- Custom Heavy duty moisture-proof 12" or 15" LF drivers
- Proprietary 90° x 60° Elliptical Wave Guide Horn design
- High-end Titanium HF Compression Driver
- Available in Black and White
- Sophisticated Linkwitz-Riley 24dB/octave crossover design



IP54 Certified

IP54 certification assures that the product has

- Limited protection against dust ingress.
- Protection against splash water from any direction.

This makes the Titan 12 and Titan 15 ideal for installations into hostile environments. Complete peace of mind and protection.

TITAN 8

VERSATILE AND LIGHTWEIGHT - DURABLE FOR INDOORS AND OUT

- 
Lightweight
- 
Moisture Rejection
- 
Ready for Rigging
- 
Designed for live Performance
- 
90° x 60° elliptical waveguide
- 
Black and white versions

The Titan 8 passive speaker combines the Titan technology, materials and design philosophy and includes a heavy-duty cast-frame woofer. This ensures absolute accuracy, high output and the smooth, wide dispersion of the critical mid and high frequency ranges.

Titan 8 is ultra-compact and lightweight so lends itself to a whole host of audio applications from gym installations, DJ booth monitors and public address.



Optional WPB-T8 mounting kit



TITAN 8



- 150W RMS / 300W Program / 600W Peak
- 124dB Max SPL
- 70Hz – 20kHz frequency response
- Custom 8" Heavy duty moisture-proof LF driver
- Proprietary 90° x 60° Elliptical Wave Guide Horn design
- High-end Titanium HF Compression Driver
- Sophisticated Linkwitz-Riley 24dB/octave crossover design
- Tough, yet lightweight Polypropylene molded cabinet with rubber padded handles
- Multiple M6, M8 & M10 rigging points and integral tripod stand adapter
- Trapezoid shape for arrays as well as stage monitor applications
- Titan Tourbags available
- Both 1/4" and NL4 connectors provided
- Available in Black and White



TITAN 8 White

SPECIFICATIONS

Passive PA Speakers



Model Name	TITAN 8	TITAN 12	TITAN 15	Titan-X12
System Type	Passive	Passive	Passive	Passive
Configuration	8" 2-way	12" 2-way	15" 2-way	12" 2-way
Frequency Response (+/-3dB)	70 - 20kHz	55Hz-20kHz	50Hz-20kHz	55Hz-20kHz
Frequency Range (-10dB)	65 - 20kHz	50Hz-20kHz	40Hz-20kHz	50Hz-20kHz
Sensitivity (2.83v/1m)	96dB	98dB	97dB	98dB
Calculated Maximum SPL @1m	124dB	128dB	129dB	128dB
System Rated Impedance	8Ω	8Ω	8Ω	8Ω
Low Frequency Transducer				
Size	203mm / 8"	305mm / 12"	381mm / 15"	305mm / 12"
Voice Coil Size	38.86mm / 1.53"	64.26mm / 2.5"	75mm / 3.0"	64.26mm / 2.5"
Rated Impedance	8Ω	8Ω	8Ω	8Ω
LF Power (re:AES2-2012)	150w	250w	400w	250w
High Frequency Transducer				
HF Driver Type	Compression Driver	Compression Driver	Compression Driver	Compression Driver
Voice Coil Size	25mm / 1"	44mm / 1.75"	51mm / 2.0"	44mm / 1.75"
Exit Size	30mm / 1.2"	25mm / 1"	25mm / 1"	25mm / 1"
Diaphragm Material	Mylar	Titanium	Titanium	Titanium
Rated Impedance	8Ω	8Ω	8Ω	8Ω
HF Power (re:AES2-2012)	20w	40w	40w	40w
Nominal Coverage (H x V)	Elliptical waveguide 90° x 60°	Elliptical waveguide 90° x 60°	Elliptical waveguide 90° x 60°	Hybrid Symmetry Horn 100°x80°
Power				
System Continuous Power	150w	250w	400w	250w
System Programme Power	300w	500w	800w	500w
System Peak Power	600w	1000w	1600w	1000w
Crossover frequency	2-way 2.4kHz / Linkwitz-Riley	2-way 2.2kHz / Linkwitz-Riley	2-way 1.8kHz / Linkwitz-Riley	2.6kHz
Input Connector	2 x NL4 (speakON compatible) 2 x 1/4" Jack	2 x NL4 (speakON compatible) 2 x 1/4" Jack	2 x NL4 (speakON compatible) 2 x 1/4" Jack	2 x NL4 (speakON compatible)
Hardware				
Pole Mount	35mm with lock screw	35mm with lock screw	35mm with lock screw	35mm with lock screw
Handles	1 on side	2 on sides	2 on sides	2 on sides
Mounting points	M6 * 8	M8 * 10	M8 * 10	M8 * 10
Enclosure				
Enclosure Material	Trapezoidal / Polypropylene	Trapezoidal / Polypropylene	Trapezoidal / Polypropylene	Trapezoidal / Polypropylene
Finish	Grey, Black, White	Grey, Black, White	Grey, Black, White	Black / white
Grille Material & Finish	1.2 steel	1.2 steel	1.2 steel	1.2 steel
Dimensions - Unpacked				
Height	396mm / 15.59"	556mm / 21.88"	708.3mm / 27.9"	582.7mm / 22.9"
Width Front	266mm / 10.47"	384.6mm / 15.1"	477.8mm / 18.8"	384.6mm / 15.1"
Width Rear	266mm / 10.47"	384.6mm / 15.1"	477.8mm / 18.8"	384.6mm / 15.1"
Depth	221mm / 8.7"	312mm / 12.3"	401.77mm / 15.8"	318.6mm / 12.5"
Dimensions - Packed				
Height	463mm / 18.2"	663mm / 26.1"	830mm / 32.7"	663mm / 26.1"
Width Front	325mm / 12.8"	435mm / 17.1"	514mm / 20.2"	435mm / 17.1"
Width Rear	325mm / 12.8"	435mm / 17.1"	514mm / 20.2"	435mm / 17.1"
Depth	282mm / 11.1"	408mm / 16.1"	489mm / 19.3"	408mm / 16.1"
Weight				
Net Weight (kg / lbs)	5.5kg / 12.1 lbs	12.0kg / 26.4lbs	22.0kg / 48.4lbs	12.0kg / 26.4lbs
Gross Weight (kg / lbs)	7.5kg / 16.5 lbs	15.1kg / 33.2lbs	26.8kg / 59.0lbs	15.1kg / 33.2lbs



Model Name	Titan-X15	Titan-12Z	Titan-15Z
System Type	Passive	Passive	Passive
Configuration	15" 2-way	12" 2-way	15" 2-way
Frequency Response (+/-3dB)	50Hz-20kHz	55Hz-20kHz	45Hz-20kHz
Frequency Range (-10dB)	40Hz-20kHz	50Hz-20kHz	40Hz-20kHz
Sensitivity (2.83v/1m)	97dB	99dB	99dB
Calculated Maximum SPL @1m	129dB	132dB	133.5dB
System Rated Impedance	8Ω	8Ω	8Ω
Low Frequency Transducer			
Size	381mm / 15"	305mm / 12"	381mm / 15"
Voice Coil Size	75mm / 3.0"	75mm / 3.0"	100mm / 4.0"
Rated Impedance	8Ω	8Ω	8Ω
LF Power (re:AES2-2012)	400w	500w	700w
High Frequency Transducer			
HF Driver Type	Compression Driver	Compression Driver	Compression Driver
Voice Coil Size	44mm / 1.75"	44mm / 1.75"	50mm / 2.0"
Exit Size	25mm / 1"	25mm / 1"	25mm / 1"
Diaphragm Material	Titanium	Titanium	Titanium
Rated Impedance	8Ω	8Ω	8Ω
HF Power (re:AES2-2012)	40w	40W	50W
Nominal Coverage (H x V)	Hybrid Symmetry Horn 100°x80°	Hybrid Symmetry Horn 100°x80°	Hybrid Symmetry Horn 100°x80°
Power			
System Continuous Power	400w	500w	700W
System Programme Power	800w	1000w	1400w
System Peak Power	1600w	2000w	2800w
Crossover frequency	2.7kHz	2.1kHz	2.1kHz
Input Connector	2 x NL4 (speakON compatible)	2 x NL4 (speakON compatible)	2 x NL4 (speakON compatible)
Hardware			
Pole Mount	35mm with lock screw	35mm with lock screw	35mm with lock screw
Handles	2 on sides	2 on sides	2 on sides
Mounting points	M8 * 10	M8 * 10	M8 * 10
Enclosure			
Enclosure Material	Trapezoidal / Polypropylene	Trapezoidal / Polypropylene	Trapezoidal / Polypropylene
Finish	Black / white	Black / white	Black / white
Grille Material & Finish	1.2 steel	1.2 steel	1.2 steel
Dimensions - Unpacked			
Height	728.5mm / 28.7"	582.7mm / 22.9"	728.5mm / 28.7"
Width Front	480.6mm / 18.9"	384.6mm / 15.1"	480.6mm / 18.9"
Width Rear	480.6mm / 18.9"	384.6mm / 15.1"	480.6mm / 18.9"
Depth	395.6mm / 15.6"	318.6mm / 12.5"	395.6mm / 15.6"
Dimensions - Packed			
Height	830mm / 32.7"	663mm / 26.1"	830mm / 32.7"
Width Front	514mm / 20.2"	435mm / 17.1"	514mm / 20.2"
Width Rear	514mm / 20.2"	435mm / 17.1"	514mm / 20.2"
Depth	489mm / 19.3"	408mm / 16.1"	489mm / 19.3"
Weight			
Net Weight (kg / lbs)	22.0kg / 48.4lbs	15.7kg / 34.5bs	25.8kg / 56.8lbs
Gross Weight (kg / lbs)	26.8kg / 59.0lbs	18.8kg / 41.2lbs	30.6kg / 67.3lbs

DVP-X Series

ROAD-READY LOUDSPEAKERS SPECIFICALLY DESIGNED FOR HARDWORKING PERFORMERS



Titanium Compression Driver



Durable, Painted Speaker Cabinet



Performance you can depend on



90° x 60° elliptical waveguide



Rhino Rock Paint



Designed for live Performance



The DVP-X range has been specifically built for hardworking musicians and DJs on the road. Covering all live applications this robust line up covers all sizes from a full range 12" through to the huge 138dB 2 x 18" subwoofer.

The MDF cabinets of DVP-X series are protected by an enhanced version of Wharfedale Pro's proprietary Rhino Rock paint. This finish gives improved protection against chips, dinks and clunks during transportation to and from the gig. DVP-X will look as good as new even after many successful tours, parties and events. The iconic Wharfedale Pro logo is also CNC routed into the cabinet design.

But DVP-X is more than just a strong cabinet. The drivers use the latest Wharfedale Pro driver technology. For the LF drivers, a curvilinear, double-roll surround is used for smooth mid-high

transitions and stability for low through to mid-range frequencies. All models have 2.5" voice coils for improved thermal dissipation. A 44mm diaphragm IRIS X4 HF driver is used throughout the range. Using a solid aluminium rear plate, the HF driver is strengthened for durability and heat is dissipated efficiently for high pressure use during prolonged time periods. Wharfedale Pro engineers have also selected a 90° x 60° elliptical waveguide optimised for wide coverage in multiple venues while touring.

Special attention has been paid to the port and port mouth to ensure a huge bass output with detail and minimised distortion. For the floor monitors, the port mouth lies parallel to the ground, creating a reflective boundary effect to guarantee low-end delivery. Each port on each speaker has been tuned individually for low-end punch.



- Individually tuned front ported systems for clear, punchy bass
- Enhanced Rhino Rock paint for a chip resistant finish
- Extended-range IRIS X4 Titanium dome HF drivers
- High powered LF drivers using a double-roll surround
- Fine-tuned crossovers, built in house for audio signal purity and optimised tuning
- HF limiters are installed for thermal protection against extreme power input
- 8 models in the passive line up



Model Name	DVP-X12	DVP-X12M	DVP-X15	DVP-X15M
System Type	Passive	Passive	Passive	Passive
Configuration	Two-way	Two-way	Two-way	Two-way
Frequency Response (+/-3dB)	60-18kHz	60-18kHz	50-18kHz	55-18kHz
Frequency Range (-10dB)	55-20kHz	55-20kHz	45-20kHz	50-20kHz
Sensitivity (2.83v/1m)	98dB	98dB	98dB	98dB
Calculated Maximum SPL @1m	129dB	129dB	130dB	130dB
System Rated Impedance	8Ω	8Ω	8Ω	8Ω
Low Frequency Transducer				
Size	305mm / 12"	305mm / 12"	381mm / 15"	381mm / 15"
Voice Coil Size	65mm / 2.5"	65mm / 2.5"	65mm / 2.5"	65mm / 2.5"
Rated Impedance	8Ω	8Ω	8Ω	8Ω
LF Power (re:AES2-2012)	300W	300W	350W	350W
High Frequency Transducer				
HF Driver Type	Compression Driver	Compression Driver	Compression Driver	Compression Driver
Voice Coil Size	44mm / 1.75"	44mm / 1.75"	44mm / 1.75"	44mm / 1.75"
Exit Size	25mm / 1"	25mm / 1"	25mm / 1"	25mm / 1"
Diaphragm Material	Titanium	Titanium	Titanium	Titanium
Rated Impedance	8Ω	8Ω	8Ω	8Ω
HF Power (re:AES2-2012)	40W	40W	40W	40W
Nominal Coverage (H x V)	90°x60°	90°x60°	90°x60°	90°x60°
Nominal Impedance	8Ω	8Ω	8Ω	8Ω
Power				
System Continuous Power	300W	300W	350W	350W
System Programme Power	600W	600W	700W	700W
System Peak Power	1200W	1200W	1400W	1400W
Crossover frequency	2.2kHz	2.2kHz	2.2kHz	2.2kHz
Input Connector	2 x NL4 (speakON compatible) + 1/4" Jack combo			
Hardware	Dual-angle (0° / 10°) 35mm socket	N/A	Dual-angle (0° / 10°) 35mm socket	N/A
	2 carry handles	2 carry handles	2 carry handles	2 carry handles
Enclosure				
Enclosure Material and finish	MDF	MDF	MDF	MDF
Colour Options	black paint	black paint	black paint	black paint
Grille Material & Finish	steel	steel	steel	steel
Dimensions - Unpacked				
Height	617mm / 24.3"	428mm / 16.9"	689mm / 27.1"	520mm / 20.5"
Width Front	361.2mm / 14.2"	359mm / 14.1"	443.5mm / 17.5"	449mm / 17.7"
Width Rear	207.6mm / 8.2"	359mm / 14.1"	243.5mm / 9.6"	449mm / 17.7"
Depth	342.4mm / 13.5"	537mm / 21.1"	429.0mm / 16.9"	640mm / 25.2"
Dimensions - Packed				
Height	680mm / 26.8"	396mm / 15.6"	750mm / 29.5"	485mm / 19.1"
Width Front	438mm / 17.3"	573mm / 22.6"	520mm / 20.5"	676mm / 26.6"
Width Rear	236mm / 9.3"	573mm / 22.6"	290mm / 11.4"	676mm / 26.6"
Depth	428mm / 16.9"	448mm / 17.6"	485mm / 19.1"	541mm / 21.3"
Weight				
Net Weight	17.6kg / 38.7lbs	17.4kg / 38.2lbs	22kg / 48.4lbs	21.5kg / 47.3lbs
Gross Weight	20.6kg / 45.3lbs	20.5kg / 45.1lbs	26kg / 57.2lbs	24.5kg / 53.9lbs



Model Name	DVP-X215	DVP-X15B	DVP-X18B	DVP-X218B
System Type	Passive	Passive	Passive	Passive
Configuration	Two-way	subwoofer	subwoofer	subwoofer
Frequency Response (+/-3dB)	45-18kHz	45-150Hz	35-150Hz	35-150Hz
Frequency Range (-10dB)	40-20kHz	38-150Hz	30-150Hz	30-150Hz
Sensitivity (2.83v/1m)	101dB	98dB	99dB	102dB
Calculated Maximum SPL @1m	135dB	130dB	133dB	138dB
System Rated Impedance	4Ω	4Ω	4Ω	4Ω
Low Frequency Transducer				
Size	2 x 381mm / 15"	381mm / 15"	470mm / 18"	2 x 470mm / 18"
Voice Coil Size	65mm / 2.5"	65mm / 2.5"	65mm / 2.5"	65mm / 2.5"
Rated Impedance	8Ω	4Ω	4Ω	8Ω
LF Power (re:AES2-2012)	700W	400W	500W	1000W
High Frequency Transducer				
HF Driver Type	Compression Driver	-	-	-
Voice Coil Size	44mm / 1.75"	-	-	-
Exit Size	25mm / 1"	-	-	-
Diaphragm Material	Titanium	-	-	-
Rated Impedance	8Ω	-	-	-
HF Power (re:AES2-2012)	40W	-	-	-
Nominal Coverage (H x V)	90°x60°	-	-	-
Nominal Impedance	8Ω	-	-	-
Power				
System Continuous Power	700W	400W	500W	1000W
System Programme Power	1400W	800W	1000W	2000W
System Peak Power	2800W	1600W	2000W	4000W
Crossover frequency	2.2kHz	150Hz	150Hz	
Input Connector	2 x NL4 (speakON compatible) + 1/4" Jack combo			
Hardware	N/A	35mm pole socket	35mm pole socket	2 x 35mm pole socket
	2 carry handles	2 carry handles	2 carry handles	2 carry handles
Enclosure				
Enclosure Material and finish	MDF	MDF	MDF	MDF
Colour Options	black paint	black paint	black paint	black paint
Grille Material & Finish	steel	steel	steel	steel
Dimensions - Unpacked				
Height	1058mm / 41.7"	591mm / 23.3"	650mm / 25.6"	650mm / 25.6"
Width Front	444.5mm / 17.5"	454mm / 17.9"	528mm / 20.8"	1020mm / 40.2"
Width Rear	245.3mm / 9.7"	454mm / 17.9"	528mm / 20.8"	1020mm / 40.2"
Depth	429.0mm / 16.9"	534mm / 21.0"	639mm / 25.2"	610mm / 24.0"
Dimensions - Packed				
Height	1125mm / 44.3"	681mm / 26.8"	740mm / 29.1"	728mm / 28.7"
Width Front	520mm / 20.5"	620mm / 24.4"	725mm / 28.5"	1092mm / 43.0"
Width Rear	290mm / 11.4"	620mm / 24.4"	725mm / 28.5"	1092mm / 43.0"
Depth	496mm / 19.5"	540mm / 21.3"	614mm / 24.2"	685mm / 27.0"
Weight				
Net Weight	34.5kg / 75.9lbs	27.5kg / 60.5lbs	35.3kg / 77.7lbs	62.5kg / 137.5lbs
Gross Weight	38.9kg / 85.6lbs	31.5kg / 69.3lbs	41.9kg / 92.2lbs	71.0kg / 156.2lbs

IMPACT-X Series

OUR AFFORDABLE, POWERFUL PASSIVE SPEAKER RANGE - refreshed !

The IMPACT-X Series has a desirable high power capacity and clarity, as well as an exceptional low frequency output providing tight bass all the way down to a 30Hz response.

For high frequency, an IRIS X4 1.75" titanium diaphragm compression driver produces a powerful yet neutral sounding high end. All IMPACT-X series speakers use specially developed LF & HF drive units which are acoustically matched with an equally durable cabinet.



Built to take an Impact

The strong MDF cabinets are covered in a textured black paint to give a durable yet stylish finish, which brings a professional look to any sound reinforcement environment. The finish is extremely hard wearing and is leagues above any other carpet covered cabinet in the same price point.

For both dedicated sound engineers and touring musicians gigging week after week, you will be able to put your trust in the IMPACT-X series.



IRIS X Compression drivers

The coil size and electrical sensitivity of a loudspeaker transducer is critical to its performance. IMPACT-X loudspeakers use our proprietary IRIS X design which delivers Increased coil Radius and Increased electrical Sensitivity. The radius of the coil ensures smooth heat dissipation during prolonged high volume use, while the increased electrical sensitivity ensures that the transducer converts as much electrical power into sound output as the laws of physics allow.

A hot transducer wastes energy, risks damage and distorts. IRIS X reduces this through improved heat dissipation and improved efficiency.

In real-world terms, IRIS X transducers deliver higher SPL with less distortion. They lead the market with specifications and are designed and built entirely within Wharfedale Pro.

'L' Models

L models boast physical dimensions to match our EVP-X MKII series onstage and deliver increased SPL specifications. The new Quad Layer LF drivers in the IMPACT-X18BL and IMPACT-X218BL also ensure smooth but defined low end punch.



IMPACT-X15ML

IMPACT-X18BL

IMPACT-X218BL



NL2 Combi jack inputs

All models of IMPACT-X feature versatile NL2 combi jacks. This allows for either speakON compatible cabling OR for 6.3mm jack plugs to be used.

IMPACT-X15L



- An affordable, powerful passive speaker range
- IRIS X4 1.75" titanium diaphragm compression drivers
- 90° x 60° Waveguides
- Newly developed high power LF & HF drivers
- Durable black paint finish
- 2 x NL2 Combi jack inputs
- Dual angle 35mm speaker pole inputs
- MDF cabinet construction
- Iconic routed Wharfedale Pro Boomerang logo



Model Name	IMPACT-X15	IMPACT-X15L	IMPACT-X15ML	IMPACT-X215	IMPACT-X215L
System Type	Passive	Passive	Passive	Passive	Passive
Configuration	Two-way	Two-way	15" two-way Monitor	Two-way	Two-way
Frequency Response (+/-3dB)	50-18kHz	50-18kHz	55-18kHz	45-18kHz	45-18kHz
Frequency Range (-10dB)	45-20kHz	45-20kHz	50-20kHz	40-20kHz	40-20kHz
Sensitivity (2.83v/1m)	98dB	98dB	98dB	101dB	101dB
Calculated Maximum SPL @1m	130dB	130dB	130dB	135dB	135dB
System Rated Impedance	8Ω	8Ω	8Ω	4Ω	4Ω
Low Frequency Transducer					
Size	381mm / 15"	381mm / 15"	381mm/15"	2 x 381mm / 15"	2 x 381mm / 15"
Voice Coil Size	65mm / 2.5"	65mm / 2.5"	Dual 2 layer 2.5"	65mm / 2.5"	65mm / 2.5"
Rated Impedance	8Ω	8Ω	8Ω	2 x 8Ω	2 x 8Ω
LF Power (re:AES2-2012)	350W	350W	350W	2 x 350W	2 x 350W
High Frequency Transducer					
HF Driver Type	Compression Driver	Compression Driver	Compression Driver	Compression Driver	Compression Driver
Voice Coil Size	44mm / 1.75"	44mm / 1.75"	44mm/1.75"	44mm / 1.75"	44mm / 1.75"
Exit Size	25mm / 1"	25mm / 1"	25mm/1"	25mm / 1"	25mm / 1"
Diaphragm Material	Titanium	Titanium	Titanium	Titanium	Titanium
Rated Impedance	8Ω	8Ω	8Ω	8Ω	8Ω
HF Power (re:AES2-2012)	40W	40W	40W	40W	40W
Nominal Coverage (H x V)	90° x 60°	90° x 60°	90° x 60°	90° x 60°	90° x 60°
Nominal Impedance	8Ω	8Ω	8Ω	8Ω	8Ω
Power					
System Continuous Power	350W	350W	350W	700W	700W
System Programme Power	700W	700W	700W	1400W	1400W
System Peak Power	1400W	1400W	1400W	2800W	2800W
Crossover frequency	2.2kHz	2.2kHz	2.2kHz	2.2kHz	2.2kHz
Input Connector					
Input Connector	2 x NL2 combi jack	2 x NL2 combi jack	2 x NL2 combi jack	2 x NL2 combi jack	2 x NL2 combi jack
Hardware					
Hardware	Dual-angle (0° or 10°) 35mm pole socket		N/A	N/A	N/A
	2 carry handles	2 carry handles	2 carry handles	2 carry handles	2 carry handles
Enclosure					
Enclosure Material and finish	MDF	MDF	MDF	MDF	MDF
Colour Options	black paint	black paint	black paint	black paint	black paint
Grille Material & Finish	steel	steel	steel	steel	steel
Dimensions - Unpacked					
Height	680mm / 26.77"	680mm / 26.8"	645mm / 25.39"	1058mm / 41.7"	1058mm / 41.7"
Width Front	444.5mm / 17.5"	460mm / 18.1"	445mm / 17.52"	444.5mm / 17.5"	502mm / 19.8"
Width Rear	245.3mm / 9.66"	249.6mm / 9.8"	445mm / 17.52"	245.3mm / 9.7"	282.5mm / 11.1"
Depth	429mm / 16.89"	450mm / 17.7"	505mm / 19.9"	429.0mm / 16.9"	467mm / 18.4"
Dimensions - Packed					
Height	750mm / 29.53"	759mm / 29.9"	501mm / 19.72"	1125mm / 44.3"	1125mm / 44.3"
Width Front	520mm / 20.47"	535mm / 21.1"	691mm / 27.2"	520mm / 20.5"	577mm / 22.7"
Width Rear	290mm / 11.42"	295mm / 11.6"	691mm / 27.2"	290mm / 11.4"	327mm / 12.9"
Depth	485mm / 19.1"	506mm / 19.9"	532mm / 20.94"	496mm / 19.5"	534mm / 21.0"
Weight					
Net Weight	22.8kg / 50.16lbs	23.5kg / 51.7lbs	21.9kg / 48.2lbs	34.5kg / 75.9lbs	37.1kg / 81.6lbs
Gross Weight	25.8 / 56.76lbs	26.6kg / 58.52lbs	25.4kg / 55.9lbs	38.9kg / 85.6lbs	41.6kg / 91.5lbs



Model Name	IMPACT-X18B	IMPACT-X18BL	IMPACT-X218B	IMPACT-X218BL
System Type	Passive	Passive	Passive	Passive
Configuration	18" Subwoofer	18" Subwoofer	2x18" Subwoofer	2x18" Subwoofer
Frequency Response (+/-3dB)	40-220Hz	40-220Hz	35Hz-1.2kHz	35Hz-1.2kHz
Frequency Range (-10dB)	30-250Hz	30-250Hz	30Hz-1.5kHz	30Hz-1.5kHz
Sensitivity (2.83v/1m)	100dB	100dB	101dB	102dB
Calculated Maximum SPL @1m	133dB	134dB	137dB	139dB
System Rated Impedance	4Ω	4Ω	4Ω	4Ω
Low Frequency Transducer				
Size	470mm / 18"	470mm / 18"	2 x 470mm / 18"	2 x 470mm / 18"
Voice Coil Size	65mm / 2.5"	Quad layer 3.0"	65mm / 2.5"	Quad layer 3.0"
Rated Impedance	4Ω	4Ω	2 x 8Ω	2 x 8Ω
LF Power (re:AES2-2012)	500W	600W	2 x 500W	2 x 600W
High Frequency Transducer				
HF Driver Type	-	-	-	-
Voice Coil Size	-	-	-	-
Exit Size	-	-	-	-
Diaphragm Material	-	-	-	-
Rated Impedance	-	-	-	-
HF Power (re:AES2-2012)	-	-	-	-
Nominal Coverage (H x V)	-	-	-	-
Nominal Impedance	-	-	-	-
Power				
System Continuous Power	500W	600W	1000W	1200W
System Programme Power	1000W	1200W	2000W	2400W
System Peak Power	2000W	2400W	4000W	4800W
Crossover frequency	250Hz	250Hz		
Input Connector				
Input Connector	2 x NL2 combi jack			
Hardware				
Hardware	35mm pole socket	35 mm pole socket	N/A	N/A
	2 carry handles	2 carry handles	2 carry handles	2 carry handles
Enclosure				
Enclosure Material and finish	MDF	MDF	18mm MDF	15mm MDF
Colour Options	black paint	black paint	black paint	black paint
Grille Material & Finish	steel	steel	steel	steel
Dimensions - Unpacked				
Height	526mm / 20.71"	650mm / 25.6"	554mm / 21.81"	650mm / 25.6"
Width Front	611mm / 24.06"	528mm / 20.8"	1222mm / 48.11"	1020mm / 40.2"
Width Rear	611mm / 23.06"	528mm / 20.8"	1222mm / 48.11"	1020mm / 40.2"
Depth	606.5mm / 23.88"	639mm / 25.2"	606.5mm / 23.88"	610mm / 24.0"
Dimensions - Packed				
Height	635mm / 25.0"	740mm / 29.1"	628mm / 24.72"	728mm / 28.7"
Width Front	710mm / 27.95"	725mm / 28.5"	1295mm / 50.98"	1092mm / 43.0"
Width Rear	710mm / 27.95"	725mm / 28.5"	1295mm / 50.98"	1092mm / 43.0"
Depth	660mm / 25.98"	614mm / 24.2"	685mm / 26.97"	685mm / 27.0"
Weight				
Net Weight	34.52kg / 75.9lbs	40.0kg / 88.0lbs	78.9kg / 173.58lbs	67.3kg / 148.06lbs
Gross Weight	41.2kg / 90.6lbs	44.2kg / 97.3lbs	83.1kg / 182.81lbs	72.6kg / 159.72lbs

EVP-X MKII

THE PERFECT BALANCE BETWEEN AFFORDABILITY, POWER AND QUALITY.
A COMPREHENSIVE LINEUP OF MODELS TO FILL YOUR VENUE.

The Evolution of EVP

From the EVP, EVP-X and now the EVP-X MKII, we have continually honed and improved this series to make it one of the most well respected and reliable speaker series in the industry. EVP-X MKII serves up an extra 20% power handling and an additional 32dB SPL over the original EVP-X.



High power, low distortion, maximum efficiency

Built around the development of an exceptional new Elliptical Waveguide Horn coupled with a Ferro fluid cooled 44mm titanium compression driver, the high frequency performance and system reliability of this series is unprecedented in this product class. High output capability and low distortion with excellent high frequency extension characterise these new drivers. When comparing sound quality and specifications to the competition, the advantages of Wharfedale Pro built and designed components, the real compression driver and our sophisticated crossover can immediately be heard and appreciated.

Durable, Versatile Speaker Cabinet

EVP-X MKII is protected by a durable carpet covering and steel grille. EVP-X MKII also features a 4-way carry handle and a dual angle pole mount making it both more portable and more versatile for varying installation applications, ensuring the HF sound is directed straight at your audience.



- Up to 20% extra power handling on new MKII series
- Up to 32dB additional SPL on new MKII series
- 90° x 60° Elliptical Wave Guide Horn
- 1.75" titanium diaphragm drivers
- ProTech™ Driver
- Built in crossover (subwoofers)
- Durable black carpet covering
- Dual angle pole mounts
- Four way carry handle design

The EVP-X15B MKII, EVP-X18B MKII and dual 18" EVP-X218B MKII subwoofers all include a Hi Pass output connector which makes system setup simple and straightforward.





Model Name	EVP-X12 MKII	EVP-X12M MKII	EVP-X15 MKII	EVP-X15M MKII
System Type	Passive	Passive	Passive	Passive
Configuration	Two-way	Two-way Monitor	Two-way	Two-way Monitor
Frequency Response (+/-3dB)	55Hz - 20kHz	60Hz - 20kHz	45Hz - 20kHz	50Hz - 20kHz
Frequency Range (-10 dB)	50Hz - 20kHz	55Hz - 20kHz	40Hz - 20kHz	45Hz - 20kHz
Sensitivity (2.83v/1m)	98dB	98dB	98dB	98dB
Calculated Maximum SPL @1m	129dB	129dB	130dB	130dB
System Rated Impedance	8Ω	8Ω	8Ω	8Ω
Low Frequency Transducer				
Size	305mm / 12"	305mm / 12"	381mm / 15"	381mm / 15"
Voice Coil Size	51.6mm / 2"	51.6mm / 2"	64.26mm / 2.5"	64.26mm / 2.5"
Rated Impedance	8Ω	8Ω	8Ω	8Ω
LF Power (re:AES2-2012)	300w	300w	350w	350w
High Frequency Transducer				
HF Driver Type	Compression driver	Compression driver	Compression driver	Compression driver
Voice Coil Size	44.5mm / 1.75"	44.5mm / 1.75"	44.5mm / 1.75"	44.5mm / 1.75"
Exit Size	25mm / 1"	25mm / 1"	25mm / 1"	25mm / 1"
Diaphragm Material	Titanium	Titanium	Titanium	Titanium
Rated Impedance	8Ω	8Ω	8Ω	8Ω
HF Power (re:AES2-2012)	40w	40w	40w	40w
Nominal Coverage (H x V)	90° x 60°	90° x 60°	90° x 60°	90° x 60°
Power				
System Continuous Power	300w	300w	350w	350w
System Programme Power	600w	600w	700w	700w
System Peak Power	1200w	1200w	1400w	1400w
Crossover frequency	2.3kHz	2.4kHz	2.2kHz	2.3kHz
Input Connector	2 x NL4 (speakON Compatible) + 2 x 1/4" Jacks	2 x NL4 (speakON Compatible) + 2 x 1/4" Jacks	2 x NL4 (speakON Compatible) + 2 x 1/4" Jacks	2 x NL4 (speakON Compatible) + 2 x 1/4" Jacks
Hardware				
Pole Mount	Dual Angle (0° or 10°) 35mm		Dual Angle (0° or 10°) 35mm	
Handles	2 on Sides	2 on Sides	2 on Sides	2 on Sides
Enclosure				
Enclosure Material	Particle Board	Particle Board	Particle Board	Particle Board
Finish	Black Carpet	Black Carpet	Black Carpet	Black Carpet
Grille Material & Finish	1.2mm Steel	1.2mm Steel	1.2mm Steel	1.2mm Steel
Dimensions - Unpacked				
Height	590mm / 23.23"	560mm / 22.05"	675mm / 26.57"	645mm / 25.39"
Width Front	430mm / 16.93"	424mm / 16.69"	460mm / 18.11"	445mm / 17.52"
Width Rear	297.5mm / 11.71"	424mm / 16.69"	294.5mm / 11.59"	445mm / 17.52"
Depth	370mm / 14.57"	441mm / 17.36"	450mm / 17.72"	473.5mm / 18.64"
Dimensions - Packed				
Height	655mm / 25.79"	480mm / 18.9"	750mm / 29.53"	501mm / 19.72"
Width Front	492mm / 19.37"	616mm / 24.25"	524mm / 21.02"	691mm / 27.2"
Width Rear	328mm / 12.91"	616mm / 24.25"	324mm / 12.76"	691mm / 27.2"
Depth	408 / 16.06"	490mm / 19.29"	486mm / 19.13"	532mm / 20.94"
Weight				
Net Weight (kg / lbs)	18.92kg / 41.6lbs	17.96kg / 39.5lbs	23.92kg / 52.6lbs	20.9kg / 45.98lbs
Gross Weight (kg / lbs)	21.6kg / 47.5lbs	20.56kg / 45.2lbs	27.42kg / 60.3lbs	24.4kg / 53.7lbs



Model Name	EVP-X215 MKII	EVP-X15B MKII	EVP-X18B MKII	EVP-X218B MKII
System Type	Passive	Passive	Passive	Passive
Configuration	Quassi Three-way	Subwoofer	Subwoofer	Subwoofer
Frequency Response (+/-3dB)	40Hz - 20kHz	40Hz - 250Hz	35Hz - 250Hz	30Hz - 250Hz
Frequency Range (-10dB)	35Hz - 20kHz	35Hz - 250Hz	30Hz - 250Hz	28Hz - 250Hz
Sensitivity (2.83v/1m)	100dB	99dB	100dB	107dB
Calculated Maximum SPL @1m	135dB	131dB	134dB	137dB
System Rated Impedance	4Ω	4Ω	4Ω	4Ω
Low Frequency Transducer				
Size	381mm / 15"	381mm / 15"	470mm / 18"	470mm / 18"
Voice Coil Size	64.26mm / 2.5"	64.26mm / 2.5"	76.2mm / 3"	76.2mm / 3"
Rated Impedance	8Ω	4Ω	4Ω	8Ω
LF Power (re:AES2-2012)	2X350w	400w	600w	2X600w
High Frequency Transducer				
HF Driver Type	Compression driver	-	-	-
Voice Coil Size	44.5mm / 1.75"	-	-	-
Exit Size	25mm / 1"	-	-	-
Diaphragm Material	Titanium	-	-	-
Rated Impedance	8Ω	-	-	-
HF Power (re:AES2-2012)	40w	-	-	-
Nominal Coverage (H x V)	90° x 60°	-	-	-
Power				
System Continuous Power	700w	400w	600w	1200w
System Programme Power	1400w	800w	1200w	2400w
System Peak Power	2800w	1600w	2400w	4800w
Crossover frequency	2.3kHz	150Hz	150Hz	150Hz
Input Connector	2 x NL4 (speakON Compatible) + 2 x 1/4" Jacks	2 x NL4 (speakON Compatible) + 2 x 1/4" Jacks	2 x NL4 (speakON Compatible) + 2 x 1/4" Jacks	2 x NL4 (speakON Compatible) + 2 x 1/4" Jacks
Hardware				
Pole Mount		35mm Pole Socket	35mm Pole Socket	35mm Pole Socket
Handles	2 on Sides	2 on Sides	2 on Sides	2 on Sides
Enclosure				
Enclosure Material	Particle Board	Particle Board	Particle Board	Particle Board
Finish	Black Carpet	Black Carpet	Black Carpet	Black Carpet
Grille Material & Finish	1.2mm Steel	1.2mm Steel	1.2mm Steel	1.2mm Steel
Dimensions - Unpacked				
Height	1058mm / 41.65"	591mm / 23.27"	650mm / 24.02"	650mm / 25.59"
Width Front	502mm / 19.76"	460mm / 18.11"	522mm / 20.55"	610mm / 24.02"
Width Rear	330mm / 12.99"	460mm / 18.11"	522mm / 20.55"	610mm / 24.02"
Depth	467mm / 18.39"	510mm / 20.08"	610mm / 24.02"	1020mm / 40.16"
Dimensions - Packed				
Height	1123mm / 44.21"	656mm / 25.83"	715mm / 28.15"	765mm / 30.12"
Width Front	564mm / 22.2"	556mm / 21.89"	656mm / 25.83"	710mm / 27.95"
Width Rear	362mm / 14.25"	556mm / 21.89"	656mm / 25.83"	710mm / 27.95"
Depth	496mm / 19.53"	506mm / 19.92"	568mm / 22.36"	1120mm / 44.09"
Weight				
Net Weight (kg / lbs)	41.28kg / 90.8lbs	28.06kg / 61.7lbs	39.3kg / 66.5lbs	67kg / 147.4lbs
Gross Weight (kg / lbs)	46.06kg / 101.3lbs	31.06kg / 68.3lbs	42.6kg / 93.7lbs	77kg / 169.4lbs

EVO-X Series

GREAT SOUNDING, RELIABLE PA.

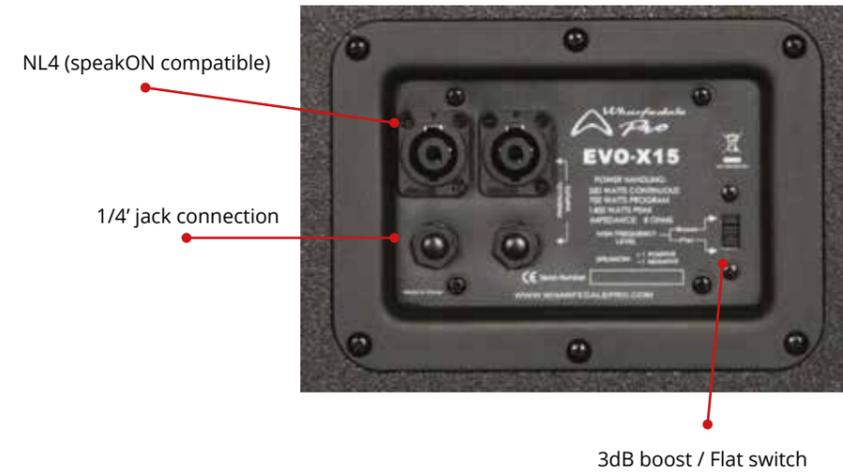


The new EVO-X Series strikes the perfect balance between affordability and performance. Positioned in-between the Impact Series and the Delta Series of passive loudspeakers, EVO-X is a new multipurpose lineup of 8 models featuring many useful and practical design elements. All models benefit from a hardwearing Rhino Rock paint finish and are visually enhanced with the iconic Wharfedale Pro 'boomerang' logo being engraved onto their surface. All models also feature practical 4-way handles to make transportation simple and pain-free. Full range models feature a unique +3dB HF boost switch allowing for quick, on-stage tweaks to be made to the sound as the crowd grows while the 3 subwoofer options all have high pass filter outputs, reducing onstage cabling and peripherals. Robust crossover designs, elliptical waveguides and large voice coils ensure that the sound quality is as beautiful as the cosmetic design.

Simply - great sounding and reliable PA!

- MDF Construction and Rhino Rock paint finish
- High power, arrayable trapezoidal cabinets
- 90° x 60° elliptical waveguides
- 4-way rubberised handles
- +3dB HF Frequency boost switch
- Subwoofers feature internal crossover
- NL4 (speakON compatible) and 1/4" connectors
- Iconic Wharfedale Pro boomerang engraving

FULL RANGE MODELS

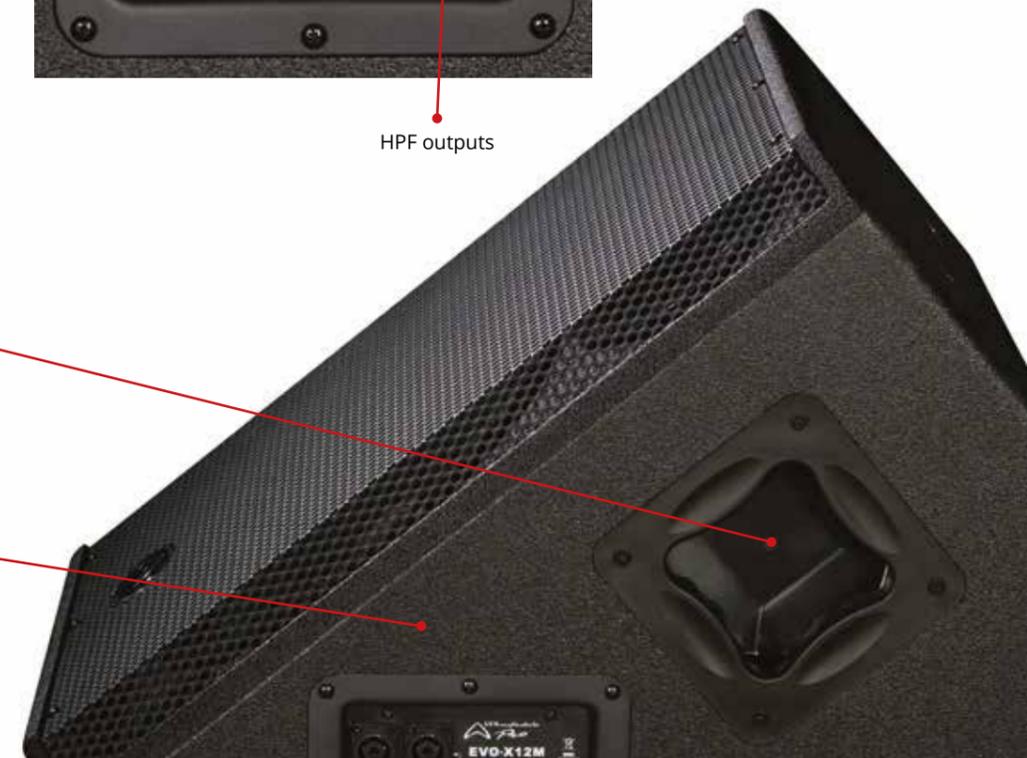


SUBWOOFERS



All models feature 4-way rubberised handles

MDF Construction with Rhino rock paint finish



SPECIFICATIONS



Model Name	EVO-X12	EVO-X12M	EVO-X15	EVO-X15M
System Type	Passive	Passive	Passive	Passive
Configuration	Two-way	Two-way Monitor	Two-way	Two-way Monitor
Frequency Response (+/-3dB)	55Hz - 20kHz	60Hz - 20kHz	45Hz - 20kHz	50Hz - 20kHz
Frequency Range (-10dB)	50Hz - 20kHz	55Hz - 20kHz	40Hz - 20kHz	45Hz - 20kHz
Sensitivity (2.83v/1m)	98dB	98dB	98dB	98dB
Calculated Maximum SPL @1m	129dB	129dB	130dB	130dB
System Rated Impedance	8Ω	8Ω	8Ω	8Ω
Low Frequency Transducer				
Size	305mm / 12"	305mm / 12"	381mm / 15"	381mm / 15"
Voice Coil Size	51.6mm / 2"	51.6mm / 2"	64.26mm / 2.5"	64.26mm / 2.5"
Rated Impedance	8Ω	8Ω	8Ω	8Ω
LF Power (re:AES2-2012)	300w	300w	350w	350w
High Frequency Transducer				
HF Driver Type	Compression Driver	Compression Driver	Compression Driver	Compression Driver
Voice Coil Size	44.5mm / 1.75"	44.5mm / 1.75"	44.5mm / 1.75"	44.5mm / 1.75"
Exit Size	25mm / 1"	25mm / 1"	25mm / 1"	25mm / 1"
Diaphragm Material	Titanium	Titanium	Titanium	Titanium
Rated Impedance	8Ω	8Ω	8Ω	8Ω
HF Power (re:AES2-2012)	40w	40w	40w	40w
Nominal Coverage (H x V)	90° x 60°	90° x 60°	90° x 60°	90° x 60°
Power				
System Continuous Power	300w	300w	350w	350w
System Programme Power	600w	600w	700w	700w
System Peak Power	1200w	1200w	1400w	1400w
Crossover frequency	2.3kHz	2.4kHz	2.2kHz	2.3kHz
Input Connector	2 x NL4 (speakON Compatible) + 2 x 1/4" Jacks	2 x NL4 (speakON Compatible) + 2 x 1/4" Jacks	2 x NL4 (speakON Compatible) + 2 x 1/4" Jacks	2 x NL4 (speakON Compatible) + 2 x 1/4" Jacks
Hardware				
Pole Mount	Dual Angle (0° / 10°) 35mm Socket		Dual Angle (0° / 10°) 35mm Socket	
Handles	2 on Sides	2 on Sides	2 on Sides	2 on Sides
Enclosure				
Enclosure Material	MDF	MDF	MDF	MDF
Finish	Rhino rock black paint			
Grille Material & Finish	1.2mm Steel	1.2mm Steel	1.2mm Steel	1.2mm Steel
Dimensions - Unpacked				
Height	590mm / 23.23"	560mm / 22.05"	675mm / 26.57"	645mm / 25.39"
Width Front	430mm / 16.93"	424mm / 16.69"	460mm / 18.11"	445mm / 17.52"
Width Rear	297.5mm / 11.71"	424mm / 16.69"	294.5mm / 11.59"	445mm / 17.52"
Depth	370mm / 14.57"	441mm / 17.36"	450mm / 17.72"	473.5mm / 18.64"
Dimensions - Packed				
Height	655mm / 25.79"	480mm / 18.9"	750mm / 29.53"	501mm / 19.72"
Width Front	492mm / 19.37"	616mm / 24.25"	524mm / 21.02"	691mm / 27.2"
Width Rear	328mm / 12.91"	616mm / 24.25"	324mm / 12.76"	691mm / 27.2"
Depth	408mm / 16.06"	490mm / 19.29"	486mm / 19.13"	532mm / 20.94"
Weight				
Net Weight (kg / lbs)	19.2kg / 42.2lbs	18.1kg / 39.8lbs	24.7kg / 54.3lbs	21.4kg / 47.1lbs
Gross Weight (kg / lbs)	22.4kg / 49.3lbs	21.5kg / 47.3lbs	28.4kg / 62.3lbs	25.3kg / 55.7lbs



Model Name	EVO-X215	EVO-X15B	EVO-X18B	EVO-X218B
System Type	Passive	Passive	Passive	Passive
Configuration	Quasi Three-way	Subwoofer	Subwoofer	Subwoofer
Frequency Response (+/-3dB)	40Hz - 20kHz	40Hz - 250Hz	35Hz - 250Hz	30Hz - 250Hz
Frequency Range (-10dB)	35Hz - 20kHz	35Hz - 250Hz	30Hz - 250Hz	28Hz - 250Hz
Sensitivity (2.83v/1m)	100dB	99dB	100dB	107dB
Calculated Maximum SPL @1m	135dB	131dB	134dB	137dB
System Rated Impedance	4Ω	4Ω	4Ω	4Ω
Low Frequency Transducer				
Size	381mm / 15"	381mm / 15"	470mm / 18"	470mm / 18"
Voice Coil Size	64.26mm / 2.5"	64.26mm / 2.5"	76.2mm / 3"	76.2mm / 3"
Rated Impedance	8Ω	4Ω	4Ω	8Ω
LF Power (re:AES2-2012)	2 * 350w	400w	600w	2 * 600w
High Frequency Transducer				
HF Driver Type	Compression Driver	-	-	-
Voice Coil Size	44.5mm / 1.75"	-	-	-
Exit Size	25mm / 1"	-	-	-
Diaphragm Material	Titanium	-	-	-
Rated Impedance	8Ω	-	-	-
HF Power (re:AES2-2012)	40w	-	-	-
Nominal Coverage (H x V)	90° x 60°	-	-	-
Power				
System Continuous Power	700w	400w	600w	1200w
System Programme Power	1400w	800w	1200w	2400w
System Peak Power	2800w	1600w	2400w	4800w
Crossover frequency	2.3kHz	150Hz	150Hz	150Hz
Input Connector	2 x NL4 (speakON Compatible) + 2 x 1/4" Jacks	2 x NL4 (speakON Compatible) + 2 x 1/4" Jacks	2 x NL4 (speakON Compatible) + 2 x 1/4" Jacks	2 x NL4 (speakON Compatible) + 2 x 1/4" Jacks
Hardware				
Pole Mount		35mm Pole Socket	35mm Pole Socket	35mm Pole Socket
Handles	2 on Sides	2 on Sides	2 on Sides	2 on Sides
Enclosure				
Enclosure Material	MDF	MDF	MDF	MDF
Finish	Rhino rock black paint			
Grille Material & Finish	1.2mm Steel	1.2mm Steel	1.2mm Steel	1.2mm Steel
Dimensions - Unpacked				
Height	1058mm / 41.65"	591mm / 23.27"	650mm / 24.02"	650mm / 25.59"
Width Front	502mm / 19.76"	460mm / 18.11"	522mm / 20.55"	610mm / 24.02"
Width Rear	330mm / 12.99"	460mm / 18.11"	522mm / 20.55"	610mm / 24.02"
Depth	467mm / 18.39"	510mm / 20.08"	610mm / 24.02"	1020mm / 40.16"
Dimensions - Packed				
Height	1123mm / 44.21"	656mm / 25.83"	715mm / 28.15"	765mm / 30.12"
Width Front	564mm / 22.2"	556mm / 21.89"	656mm / 25.83"	710mm / 27.95"
Width Rear	362mm / 14.25"	556mm / 21.89"	656mm / 25.83"	710mm / 27.95"
Depth	496mm / 19.53"	506mm / 19.92"	568mm / 22.36"	1120mm / 44.09"
Weight				
Net Weight (kg / lbs)	42.0kg / 92.4lbs	28.5kg / 62.7lbs	40.1kg / 88.2lbs	67.3kg / 148.1lbs
Gross Weight (kg / lbs)	47.1kg / 103.6lbs	33.5kg / 73.7lbs	45.2kg / 99.4lbs	79.9kg / 175.8lbs

DELTA X

DURABLE PASSIVE PA FOR THE MOST DEMANDING PERFORMERS



2" Titanium
Compression HF



Low Distortion,
Maximum Efficiency



Ready for Rigging



Performance you can
depend on



Rhino Rock Paint



Performance you can depend on

The Delta X Series uses robust technology and durable components to ensure that it can meet the demands of touring, rental and fixed installation applications

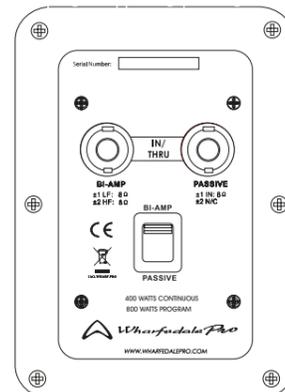
Ready for a life time on the road

The Delta X Series is constructed from plywood and features dual angle pole mounts to ensure that your sound is aimed directly at the audience, not at the ceiling. Delta-X also has a new crossover construction process, which results in reliable long term performance - even at the highest of volumes.

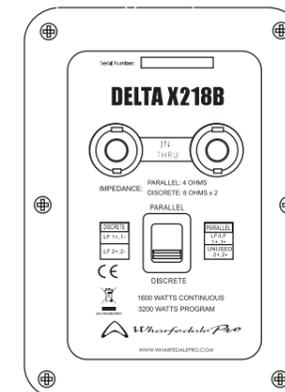
Passive PA Speakers

Crafted with the highest quality components

High output, low distortion cast frame woofers with 3" voice coils are used throughout the range for unparalleled low frequency reproduction. With the exception of the Delta X10, 2" titanium compression drivers are coupled to 90° x 45° elliptical waveguides for impressive output level and smooth HF dispersion



Externally switchable full range/bi-amp operation



Externally switchable discrete/parallel operation on Delta X218B

- High power, low distortion cast frame woofers
- 1.4" exit, 2" titanium diaphragm compression drivers (1" exit, 1.7" driver Delta X10)
- Externally switchable fullrange / bi-amp operation
- Externally switchable discrete / parallel mode (only Delta X218B)
- 90° x 45° elliptical waveguides (90° x 60° Delta X10)
- Dual angle pole mount receptacles
- Plywood construction with internal bracing
- 4-way high impact plastic carry handles
- Rhino Rock texturised composite finish
- Parallel NL4 (speakON compatible) inputs
- Thru outputs on "M" models
- High-pass outputs on X15B and X18B



Delta F18B - Our passive, single 18" folded horn subwoofer delivering a massive 141dB (max SPL) .

Delta F18B is supplied with castors so is a surprisingly portable and easily moveable enclosure. Where significant extension of low frequency output of a sound system is required over middle-long distances the addition of one or more Delta F18B subwoofers will provide high output low frequency enhancement to the overall sound system.

The folded horn design enables the Delta F18B to deliver ground shaking low frequencies over long distances (Unlike direct radiating designs which provide near to middle distance sound).



Model Name	Delta X10	Delta X12	Delta X15	Delta X12M	Delta X15M
System Type	Passive	Passive	Passive	Passive	Passive
Configuration	Two-way	Two-way	Two-way	Two-way	Two-way
Frequency Response (+/-3dB)	65-20kHz	60-20kHz	50-20kHz	60-20kHz	55-20kHz
Frequency Range (-10 dB)	60-20kHz	55-20kHz	45-20kHz	55-20kHz	50-20kHz
Sensitivity (2.83v/1m)	97dB	97dB	98dB	97dB	98dB
Calculated Maximum SPL @1m	128dB	129dB	131dB	129dB	131dB
System Rated Impedance	8Ω	8Ω	8Ω	8Ω	8Ω
Low Frequency Transducer					
Size	288mm / 10"	332mm / 12"	404mm / 15"	332mm / 12"	404mm / 15"
Voice Coil Size	63.5mm / 2.5"	77.1mm / 3"	77.1mm / 3"	77.1mm / 3"	77.1mm / 3"
Rated Impedance	8Ω	8Ω	8Ω	8Ω	8Ω
LF Power (re:AES2-2012)	300w	400w	500w	400w	500w
High Frequency Transducer					
HF Driver Type	Compression Driver	Compression Driver	Compression Driver	Compression Driver	Compression Driver
Voice Coil Size	44.5mm / 1.75" Titanium	50.8mm / 2" Titanium	50.8mm / 2" Titanium	50.8mm / 2" Titanium	50.8mm / 2" Titanium
Exit Size	25.4mm / 1"	35.6mm / 1.4"	35.6mm / 1.4"	35.6mm / 1.4"	35.6mm / 1.4"
Diaphragm Material	Titanium	Titanium	Titanium	Titanium	Titanium
Rated Impedance	8Ω	8Ω	8Ω	8Ω	8Ω
HF Power (re:AES2-2012)	40w	50w	50w		
Nominal Coverage (H x V)	90° x 60°	90° x 45°	90° x 45°		
Power					
System Continuous Power	300w	400w	500w	400w	500w
System Programme Power	600w	800w	1000w	800w	1000w
System Peak Power	1200w	1600w	2000w	1600w	2000w
Crossover frequency	2.8kHz	1.8kHz	1.8kHz	1.8kHz	1.8kHz
Input Connector	2 x NL4 (speakON Compatible)				
Hardware					
Pole Mount	Dual Angle (0°/10°) 35mm	Dual Angle (0°/10°) 35mm	Dual Angle (0°/10°) 35mm		
Handles	2 on Sides	2 on Sides	2 on Sides	2 on Sides	2 on Sides
Enclosure					
Enclosure Material	15mm Plywood	15mm Plywood	15mm Plywood	15mm Plywood	15mm Plywood
Finish	Rhino Rock	Rhino Rock	Rhino Rock	Rhino Rock	Rhino Rock
Grille Material & Finish	1.5 mm Steel Black or White	1.5 mm Steel Black	1.5 mm Steel Black	1.5 mm Steel Black	1.5 mm Steel Black
Dimensions - Unpacked					
Height	500mm / 19.7"	630mm / 24.8"	700mm / 27.6"	449(SITU)mm / 17.7"	493(SITU)19.4"
Width Front	338mm / 13.3"	390mm / 15.3"	446mm / 17.6"	390mm / 15.4"	446mm / 17.6"
Width Rear	212.4mm / 8.4"	241.2mm / 9.5"	281.4mm / 11.1"	390mm / 15.4"	446mm / 17.6"
Depth	330mm / 13"	373mm / 14.7"	406mm / 16.0"	618mm / 24.3"	685mm / 27.0"
Dimensions - Packed					
Height	575mm / 22.6"	773mm / 28.9"	803mm / 31.6"	462mm / 18.2"	518mm / 20.4"
Width Front	400mm / 15.7"	566mm / 22.3"	622mm / 24.5"	690mm / 27.2"	757mm / 29.8"
Width Rear	300mm / 11.8"	566mm / 22.3"	622mm / 24.5"	690mm / 27.2"	757mm / 29.8"
Depth	386mm / 15.2"	464mm / 18.3"	498mm / 19.6"	522mm / 20.6"	565mm / 22.2"
Weight					
Net Weight (kg / lbs)	16.58kg / 36.5lbs	24.7kg / 54.5lbs	29.9kg / 65.9lbs	23.18kg / 50.9lbs	27.24kg / 59.9lbs
Gross Weight (kg / lbs)	19.6kg / 43.0lbs	29kg / 63.8lbs	35.5kg / 78.1lbs	28.5kg / 62.7lbs	33.96kg / 74.7lbs



Model Name	Delta X215	Delta X15B	Delta X18B	Delta X218B	Delta F18B
System Type	Passive	Passive	Passive	Passive	Passive
Configuration	Quasi Three-way	Subwoofer	Subwoofer	Dual Chamber Subwoofer	Folded horn subwoofer
Frequency Response (+/-3dB)	45-20kHz	42-2kHz(BI-AMP)	38-1.5kHz(BI-AMP)	30-1.5kHz	30Hz - 300Hz
Frequency Range (-10dB)	45-20kHz	38-150Hz	30-1.5kHz	30-1.5kHz	
Sensitivity (2.83v/1m)	101dB	98dB	99dB	100dB	106dB
Calculated Maximum SPL @1m	137dB	132dB	134dB	138dB	141dB
System Rated Impedance	4Ω	8Ω	8Ω	Parallel:4Ω Discrete:8Ω x2	8Ω
Low Frequency Transducer					
Size	2 x 404mm / 15"	404mm / 15"	470mm / 18"	470mm / 18"	470mm / 18"
Voice Coil Size	77.1mm / 3"	102mm / 4"	102mm / 4"	102mm / 4"	102mm / 4"
Rated Impedance	2 x 8Ω	8Ω or 4Ω	8Ω or 4Ω	2 x 8Ω	8Ω
LF Power (re:AES2-2012)	2 x 500w	700w	800w	2 x 800w	800w
High Frequency Transducer					
HF Driver Type	Compression Driver	-	-	-	-
Voice Coil Size	50.8mm / 2"	-	-	-	-
Exit Size	35.6mm / 1.4"	-	-	-	-
Diaphragm Material	Titanium	-	-	-	-
Rated Impedance	8Ω	-	-	-	-
HF Power (re:AES2-2012)	50w	-	-	-	-
Nominal Coverage (H x V)	90° x 45°	-	-	-	-
Power					
System Continuous Power	1000w	700w	800w	1600w Parallel / 800w Discrete	800w
System Programme Power	2000w	1400w	1600w	3200w Parallel / 1600w Discrete	1600w
System Peak Power	4000w	2800w	3200w	6400w Parallel / 3200w Discrete	3200w
Crossover frequency	1.8Hz	-	-	-	
Input Connector	2 x NL4 (speakON Compatible)	2 x NL4 (speakON Compatible)			
Hardware					
Pole Mount		35mm	35mm		35mm
Handles	2 on Sides / 1 on Back	2 on Sides	2 on Sides	4 on Sides	4 on Sides
Enclosure					
Enclosure Material	15mm Plywood	15mm Plywood	15mm Plywood	18mm Plywood	18mm Plywood
Finish	Rhino Rock	Rhino Rock	Rhino Rock	Rhino Rock	Rhino Rock
Grille Material & Finish	1.5 mm Steel Black				
Dimensions - Unpacked					
Height	1135mm / 44.7"	471mm / 18.5"	539mm / 21.2"	541mm / 21.3"	914mm / 36.0"
Width Front	488mm / 19.2"	471mm / 18.5"	539mm / 21.2"	1041mm / 41.0"	609.6mm / 24.0"
Width Rear	299.6mm / 11.8"	471mm / 18.5"	539mm / 21.2"	1041mm / 41.0"	609.6mm / 24.0"
Depth	450mm / 17.7"	600mm / 23.6"	650mm / 25.6"	650mm / 25.6"	914mm / 36.0"
Dimensions - Packed					
Height	1218mm / 48.0"	556mm / 21.9"	624mm / 24.6"	626mm / 25.6"	1009mm / 39.72"
Width Front	558mm / 22.0"	543mm / 21.4"	611mm / 24.1"	1126mm / 44.3"	689mm / 27.12"
Width Rear	558mm / 22.0"	543mm / 21.4"	611mm / 24.1"	1126mm / 44.3"	689mm / 27.12"
Depth	522mm / 20.6"	672mm / 26.5"	722mm / 28.4"	722mm / 28.4"	994mm / 39.13"
Weight					
Net Weight (kg / lbs)	52.9kg / 116.6lbs	31.5kg / 69.4lbs	37.3kg / 82.06lbs	78.9kg / 173.9lbs	80.5kg / 177.1lbs
Gross Weight (kg / lbs)	59.0kg / 130.0lbs	35.12kg / 77.4lbs	43.2kg / 95.04lbs	86.0kg / 189.6lbs	85.2kg / 187.44lbs

FOCUS Series

OUR FLAGSHIP POINT-SOURCE ARRAY FOR PORTABLE RENTALS, TOURING AND FIXED STAGE



Optimised acoustic engineering

The Focus family has 5 components to choose from - a 12" and 15" PA and an 18" and twin 18" subwoofer plus the new Focus-12M floor monitor.

Focus tops and subs are superbly engineered to work together seamlessly and provide maximum efficiency. The two-way PA speakers employ a High-Q 100° x 10° long-throw waveguide horn geometry to project the sound all the way to the back of large listening areas. All this comes together to create a powerful point-source array system.

Meets your needs

Focus hardware allows you to fly in a line-array configuration, fly independently and in pairs or stack PA's on top of subs. Focus adapts perfectly to whatever challenges your venue presents you with.

- Flexible point-source passive array series
- 100° x 10° long-throw waveguides
- Huge power handling up to 2800W Peak
- Huge SPL capabilities up to 146dB SPL peak
- Bi-amp and Passive modes
- Dual angle pole mount sockets
- NL4 (speakON compatible) inputs
- Fly individually, in pairs or in array formations
- HF compression drivers with 3.2" voice coils
- 15mm Russian birch plywood construction.
- M10 x 11 & Fly Track Rigging points

Passive PA Speakers

SPECIFICATIONS



Model Name	Focus-12	Focus-15	Focus-12M	Focus-18S	Focus-218S
System Type	Passive	Passive	Passive	Passive	Passive
Configuration	Two-way	Two-way	Two-way floor monitor	Subwoofer	Dual Subwoofer
Frequency Response (+/-3dB)	60Hz - 20kHz	50Hz - 20kHz	60Hz - 20kHz	35Hz - 800Hz	30Hz - 800Hz
Frequency Range (-10dB)	55Hz - 20kHz	45Hz - 20kHz	65Hz - 20kHz	30Hz - 800Hz	25Hz - 800Hz
Sensitivity (2.83v/1m)	99.5dB	99.5dB	99dB	104dB	107dB
Calculated Maximum SPL @1m	133dB	135dB	132dB	140dB	146dB
System Rated Impedance	8Ω	8Ω	8Ω	8Ω	Parallel 4Ω / Discrete 2x8Ω
Low Frequency Transducer					
Size	331mm / 12"	390mm / 15"	305mm / 12"	462mm / 18"	462mm / 18"
Voice Coil Size	76.2mm / 3"	102mm / 4"	75mm / 3.0"	114.3mm / 4.5"	114.3mm / 4.5"
Rated Impedance	8Ω	8Ω	8Ω	8Ω	2 x 8Ω
LF Power (re:AES2-2012)	500w	700w	500w	1000w	2 x 1000w
High Frequency Transducer					
HF Driver Type	Compression Driver	Compression Driver	Compression driver	-	-
Voice Coil Size	81mm / 3.2"	81mm / 3.2"	50.8mm / 2"	-	-
Exit Size	35.5mm / 1.3"	35.5mm / 1.3"	35.6mm / 1.4"	-	-
Diaphragm Material	Titanium	Titanium	Titanium	-	-
Rated Impedance	8Ω	8Ω	8Ω	-	-
HF Power (re:AES2-2012)	75W	75W	50w	-	-
Nominal Coverage (H x V)	100° x 10°	100° x 10°	90° x 40°	-	-
Power					
System Continuous Power	500w	700w	500w	1000w	Parallel 2000w / Discrete 1000w
System Programme Power	1000w	1400w	1000w	2000w	Parallel 4000w / Discrete 2000 W
System Peak Power	2000w	2800w	2000w	4000w	Parallel 8000w / Discrete 4000w
Crossover frequency	1.6kHz	1.6kHz	2.0kHz	-	-
Input Connector	2 x NL4 (speakON Compatible)				
Hardware					
Pole Mount	Dual-angle 35mm Pole Socket	Dual-angle 35mm Pole Socket	35mm pole socket	M20 thread Pole Mount	M20 thread Pole Mount
Handles	2 On Sides	2 On Sides	1 on top	4 On Sides	4 On Sides
Enclosure					
Enclosure Material	15mm Plywood	15mm Plywood	15mm Plywood	18mm Plywood	18mm Plywood
Finish	Black Rhino Paint				
Grille Material & Finish	1.5mm Steel				
Dimensions - (Unpacked)					
Height	625mm / 24.6"	690mm / 27.17"	570mm / 22.4"	540mm / 21.26"	540mm / 21.26"
Width Front	455mm / 17.91"	455mm / 17.91"	374.6mm / 14.7"	490mm / 19.29"	880mm / 34.65"
Width Rear	270mm / 10.63"	224.5mm / 8.84"	374.6mm / 14.7"	490mm / 19.29"	880mm / 34.65"
Depth	435mm / 17.13"	433mm / 17.05"	331.5mm / 13.05"	900mm / 35.43"	900mm / 35.43"
Dimensions - (Packed)					
Height	695mm / 27.36"	750mm / 29.53"	665mm / 26.2"	615mm / 24.21"	615mm / 24.21"
Width Front	455mm / 17.91"	500mm / 19.69"	454mm / 18.5"	560mm / 22.05"	960mm / 37.80"
Width Rear	270mm / 10.63"	285mm / 7.28"	454mm / 18.5"	560mm / 22.05"	960mm / 37.80"
Depth	426mm / 16.78"	480mm / 18.9"	401mm / 15.8"	970mm / 38.19"	970mm / 38.19"
Weight					
Net Weight	26.3kg / 57.9lbs	34.1kg / 75lbs	21.4kg / 47.1lbs	52.4kg / 115.3lbs	86.5kg / 190.3lbs
Gross Weight	28.2kg / 62.04lbs	36.5kg / 80.3lbs	23.8kg / 52.4lbs	61.3kg / 134.9lbs	98kg / 215.6lbs

IPX6 RATED ARRAYS

WATERPROOF IPX6 CERTIFIED LINE ARRAY SYSTEMS



Coming 2020

Introducing new WLA series line array models which overcome nature and give total peace of mind for outdoor installations and events! The all new F version (waterproof) series.

With the same reliability and high performance characteristics as the original 'non-F' models, these F models are IPX6 Certified. This certification states that there should be no harmful effects when "Water is projected in powerful jets (12.5mm nozzle) against the enclosure from any direction"

With rust-proof aluminium grilles, components wrapped in wax and anti-corrosion stainless and aluminium screws and hardware, the F models are made for the rain and long-term environmental exposure.

In addition, to reduce any risk of standing water, and to help rental companies with storage, the front grille has been flattened.

FEATURES

- Stainless steel hardware (WLA-28F system)
- Aluminium hardware (WLA-210XF system)
- Wax wrapped components and flat aluminium front grilles
- Waterproof connectors
- Stainless Common Fly Frames for flying or ground stacking

WLA-210XF

- Dual 10" line array element
- Dual waterproof connectors



WLA-210XSUBF

- Dual 15" line array subwoofer
- Single waterproof connector



WLA-218BF

- Dual 18" subwoofer
- Single waterproof connector



WLA-28F

- Dual 8" line array element
- Dual waterproof connectors



WLA-28SUBF

- Dual 15" subwoofer
- Single connector



WLA-15MF

- 15" floor monitor
- Single waterproof connector

LINE ARRAY

IPX6 ARRAYS

WATERPROOF IPX6 CERTIFIED LINE ARRAY SYSTEMS



Model Name	WLA-210XF	WLA-210XSUBF	WLA-28F	WLA-28SUBF	WLA-218BF	WLA-15MF
System Type	IPX6 waterproof	IPX6 waterproof	IPX6 waterproof	IPX6 waterproof	IPX6 waterproof	IPX6 waterproof
Configuration	Two-way 2 x 10"	2 x 15" subwoofer	Two-way 2 x 8"	2 x 15" subwoofer	2 x 18" subwoofer	15" monitor
Freq Response (+/-3dB)	65Hz - 20kHz	39Hz - 900Hz	65Hz - 20kHz	39Hz - 900Hz	30Hz - 800Hz	50Hz - 20kHz
Freq Range (-10dB)	60Hz - 20kHz	35Hz - 1.5kHz	60Hz - 20kHz	35Hz - 1.5kHz	25Hz - 1KHz	45Hz - 20kHz
Sensitivity (2.83v/1m)	102dB	108dB	101dB	108dB	109dB	99dB
Calc Max SPL @1m	138dB	145dB	133dB	145dB	148dB	133dB
System Impedance	16Ω	4Ω	16Ω	4Ω	4Ω	8Ω
LF Transducer						
Size	2 x 260mm / 2 x 10"	2 x 381mm / 15"	2 x 203.2mm / 2 x 8"	2 x 381mm / 15"	2 x 470mm / 18"	381mm / 15"
Voice Coil Size	65mm / 2.5"	100mm / 4.0"	51.6mm / 2.0"	100mm / 4.0"	102mm / 4.0"	102mm / 4.0"
Rated Impedance	8Ω x 2	2 x 8Ω	8Ω x 2	2 x 8Ω	2 x 8Ω	8Ω
LF Power (re:AES2-2012)	2 x 400W	2 x 600w	2 x 200W	2 x 600w	2 x 1000w	700W
HF Transducer						
Compression driver	Neo	-	Ferrite	-	-	Neo
Voice Coil Size	75mm / 3.0"	-	75mm / 3.0"	-	-	82mm / 3.2"
Exit Size	35.6mm / 1.4"	-	35.6mm / 1.4"	-	-	35.6mm / 1.4"
Diaphragm Material	Titanium	-	Titanium	-	-	Titanium
Rated Impedance	8Ω	-	16Ω	-	-	8Ω
HF (re:AES2-2012)	90W	-	90W	-	-	80W
Coverage (H x V)	100° x 10°	-	100° x 10°	-	-	90° x 60°
Power						
Continuous Power	LF:800W HF:90W	1200w	LF:400W HF: 90W	1200w	2000w	700W
Programme Power	LF:1600W HF:180W	2400w	LF:800W HF:180W	2400w	4000w	1400W
Peak Power	LF:3200W HF:360W	4800w	LF:1600W HF:360W	4800w	8000w	2800W
Crossover frequency	1.5kHz	No	1.7kHz	No	No	No
Operational Modes:	No	No	No	No	No	No
Input Connector	2 x waterproof	1 x waterproof	2 x waterproof	1 x waterproof	1 x waterproof	1 x waterproof
Hardware						
	Integral - adjustable rigging 0°-10°	Integral non adjustable	Integral - adjustable rigging 0°-10°	Integral non adjustable		35mm pole socket
Enclosure Material	15mm, 18mm Ply	15mm, 18mm Ply	15mm, 18mm Ply	18mm Plywood	18mm Plywood	15mm Plywood
Finish	Waterproof Paint	Waterproof Paint	Waterproof Paint	Waterproof Paint	Waterproof Paint	Waterproof Paint
Grille Material	3.0mm Aluminium	3.0mm Aluminium	1.5mm Aluminium	3.0mm Aluminium	3.0mm Aluminium	3.0mm Aluminium
Dims - (Unpacked)						
Height Front	333.3mm / 13.1"	494mm / 19.4"	250mm / 9.84"	485mm / 19.1"	560mm / 22.0"	723mm / 28.5"
Height Rear	256.3mm / 10.0"	494mm / 19.4"	188mm / 7.4"	485mm / 19.1"	560mm / 22.0"	723mm / 28.5"
Width	845mm / 33.3"	845mm / 33.3"	760mm / 29.92"	760mm / 29.9"	1065mm / 41.9"	432mm / 17.0"
Depth	443mm / 17.4"	653mm / 25.7"	463.2mm / 18.23"	716mm / 28.2"	756mm / 29.8"	395.6mm / 15.58"
Dims - (Packed)						
Height	953mm / 37.5"	933mm / 36.7"	320mm / 12.6"	575mm / 22.6"	638mm / 25.1"	826mm / 32.5"
Width Front	424mm / 16.7"	723mm / 28.5"	830mm / 32.7"	850mm / 33.5"	1138mm / 44.8"	522mm / 20.6"
Width Rear	424mm / 16.7"	723mm / 28.5"	830mm / 32.7"	850mm / 33.5"	1138mm / 44.8"	522mm / 20.6"
Depth	513mm / 20.2"	584mm / 23.0"	534mm / 21.0"	806mm / 31.7"	829mm / 32.6"	490mm / 19.3"
Weight						
Net Weight	46.0kg / 101.2lbs	81.0kg / 178.2lbs	28.5kg / 63.8lbs	62.2kg / 134.6lbs	72.8kg / 160.5lbs	30.5kg / 67.1lbs
Gross Weight	50.0kg / 110.0lbs	86.4kg / 190.1lbs	31.0kg / 69.3lbs	70.2kg / 145.2lbs	87.1kg / 192lbs	35.6kg / 78.32lbs

WLA-210X System

OUR ALL-NEW DUAL 10" LINE ARRAY SYSTEM.



The new WLA-210X line array system keeps the same design philosophies as the acclaimed WLA-25 and WLA-28 systems from Wharfedale Pro.

Portable, powerful and versatile line array solutions which are ideal for both touring and fixed installation applications.

Each WLA-210X element uses a pair of custom 10" Wharfedale Pro high-power low-frequency drivers, while the high frequencies are handled by a premium 3.0" titanium diaphragm, neodymium magnet compression driver coupled to a 100° x 10° waveguide.

The waveguide exit extends nearly to the top and bottom of the enclosure to create a continuous acoustical source - resulting in greatly reduced destructive interaction within the array.

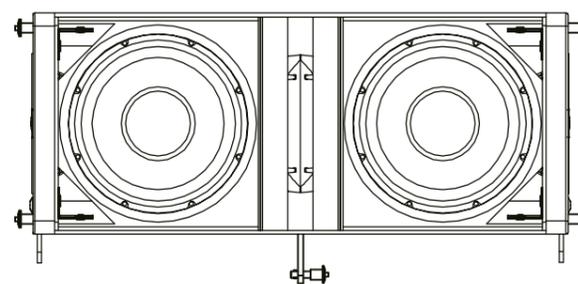


Bi-amp and Passive modes

A switch on the WLA-210X input panel selects between either of two operating modes: Passive mode (single amplifier) or Bi-amp mode (separate low and high frequency amplifiers).

In Passive mode, the internal crossovers of the WLA-210X loudspeakers divide the audio signal into the separate frequency ranges for each driver. In Bi-amp mode separate (discrete) amplifiers can be used to power the low frequency and high frequency drivers.

The Versadrive series are ideal for passive & bi-amp mode operation and control.



WLA-210X

- 2 x 10" LF drivers with 2.5" voice coils
- 1 x Neodymium HF compression driver with 3" voice coil
- 16Ω Impedance
- Passive and Bi-amp operation modes
- 100° x 10° dispersion
- HF : 90w Continuous / 180w Programme / 360w Peak
- LF : 800w Continuous / 1600w Programme / 3200w Peak
- Internal rigging system
- 15mm / 18mm plywood construction
- Max SPL @1m (Passive mode) 138dB

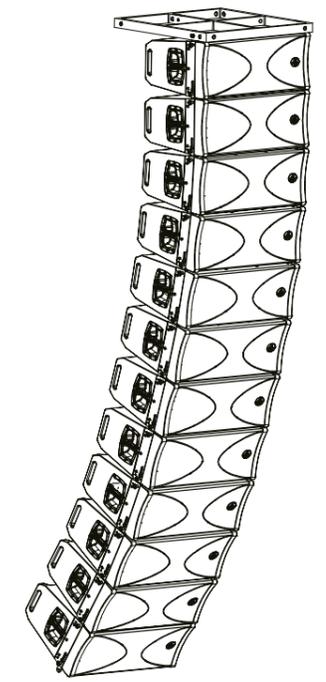
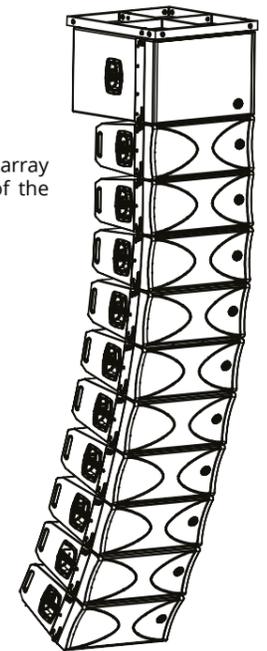
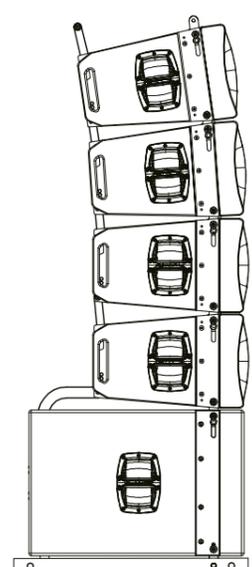


WLA-210XSUB

- Dual 15" passive subwoofer
- 4.0" Voice coils
- Max SPL @1m 145dB
- 1200w Continuous / 2400w Programme / 4800w Peak
- 4Ω Impedance
- 18mm plywood construction

WLA-210X Common Fly Frame

Arrays can be assembled using up to 12 x WLA-210X line array elements or with WLA-210XSUB Subwoofers at the top of the array with a safety factor of 12.



Optimised Ground Stacking

WLA-210X rigging doubles up as an optimised ground stacking system, using the WLA-210XSUB subwoofer as a base.

Arrays of WLA-210X line array elements can be aimed downwards by as much as 10° to cover audience areas close to a stage, as well as upward by as much as 10° in order to better cover distant balcony seating areas.

WLA-28 System

DESIGNED FROM THE GROUND UP BY OUR VETERAN LOUDSPEAKER TEAMS FROM THE UK AND USA.



WLA-15B



WLA-28



Huge sound pressure level

The WLA-28 uses a pair of high powered 8" LF drivers and a 3.2" neodymium HF driver to generate an impressive 132dB max SPL while handling up to 1600 watts peak.



Bi-amp and Passive modes

On the rear of the WLA-28 is the Bi-amp and Passive mode switch. This allows for versatile and controllable configurations where separate amps can be selected to drive the HF and LF components individually.

WLA-28 / WLA-15B

The WLA-28 has been developed to condense the extreme SPL and long-throw capabilities of larger line array systems in to a compact 2 x 8" configuration. It is accompanied by the WLA-15B and the new WLA-28SUB which are matched to extend the low frequencies for a complete, full-range system.

Extend Your Bass

Two subwoofer systems are available to add the low end to a WLA-28 rig.

The WLA-15B single 15" sub reaches depths of 35Hz and has an output potential of 2800 watts peak.

The dual 15" WLA-28SUB delivers 145dB with a peak power handling of 4800w. Both subwoofers feature massive 4" voice coils for extreme power handling.



WLA-28SUB

LINE ARRAY



Ready for Rigging

A versatile captive, hidden rigging system allows for fast setup, with the widest range of splay angles, while keeping the toughened steel brackets hidden within the chassis. Inter element splay angles guarantee that a WLA system can meet the needs of your venue.

WLA-28 FLY FRAME

The WLA-28 Fly Frame is specifically designed for the WLA-28 and WLA-15B. This frame is the easiest and safest way to rig a WLA system and is capable of rigging a total of 8 x WLA-28 and 1 x WLA-15B, or 12 x WLA-28. Combined with the advanced locking-pin and adjustable angle of the WLA-28 pa speaker, the system as a whole ensures a loud projection of sound, directly at your audience.

WLA-28SUB Fly Frame is used with systems containing a WLA-28SUB.

Ground stack or fly the WLA-28SUB frame supports up to 8 x WLA-28 and 1 x WLA-28SUB with a safety factor of 12.

- High Sensitivity, Full Horn Loaded Design
- Constant directivity waveguides
- Rare Earth Magnets
- Physically Aligned Transducers
- 2 x parallel NL4 (speakON compatible) inputs

- Comprehensive Adjustable Splay Angles
- Durable Rhino Rock finished cabinets
- Front Hinged Rigging System
- Captive Rigging Hardware
- Tethered Quick Release Pins (Each Rated To 2000Kg)

WLA-25 System

COMPACT POWER WITH SONIC DETAIL.

WLA-25 is a two-way passive line array system which features the same design philosophy as its established larger brother, the WLA-28.

It brings long throw capabilities together with extreme SPL - all from within a compact and portable array system.



WLA-25



WLA-25SUB

The biggest breakthrough during the development process was the creation of a custom Wharfedale Pro neodymium HF compression driver. This newly engineered HF component delivers extreme sensitivity from a very compact and lightweight design. Along with its supersensitive 1.75" voice coil, this HF compression driver also features aluminium back plating which acts as a heat sink to aid heat dissipation. This attention to detail protects the driver from heat damage and mechanical distortion during extreme performance levels.

The 2 * 5" custom LF drivers have been developed to work in partnership with this neo HF driver. Rigid die cast baskets ensure consistent sonic performance with minimum distortion. The placement and physical mounting of all the drivers have been fine tuned to ensure maximum phase coherence and SPL are achieved from the compact cabinet.

The specially designed acoustic grilles in front of the 5" woofers optimise the midrange directivity while the HF exponential

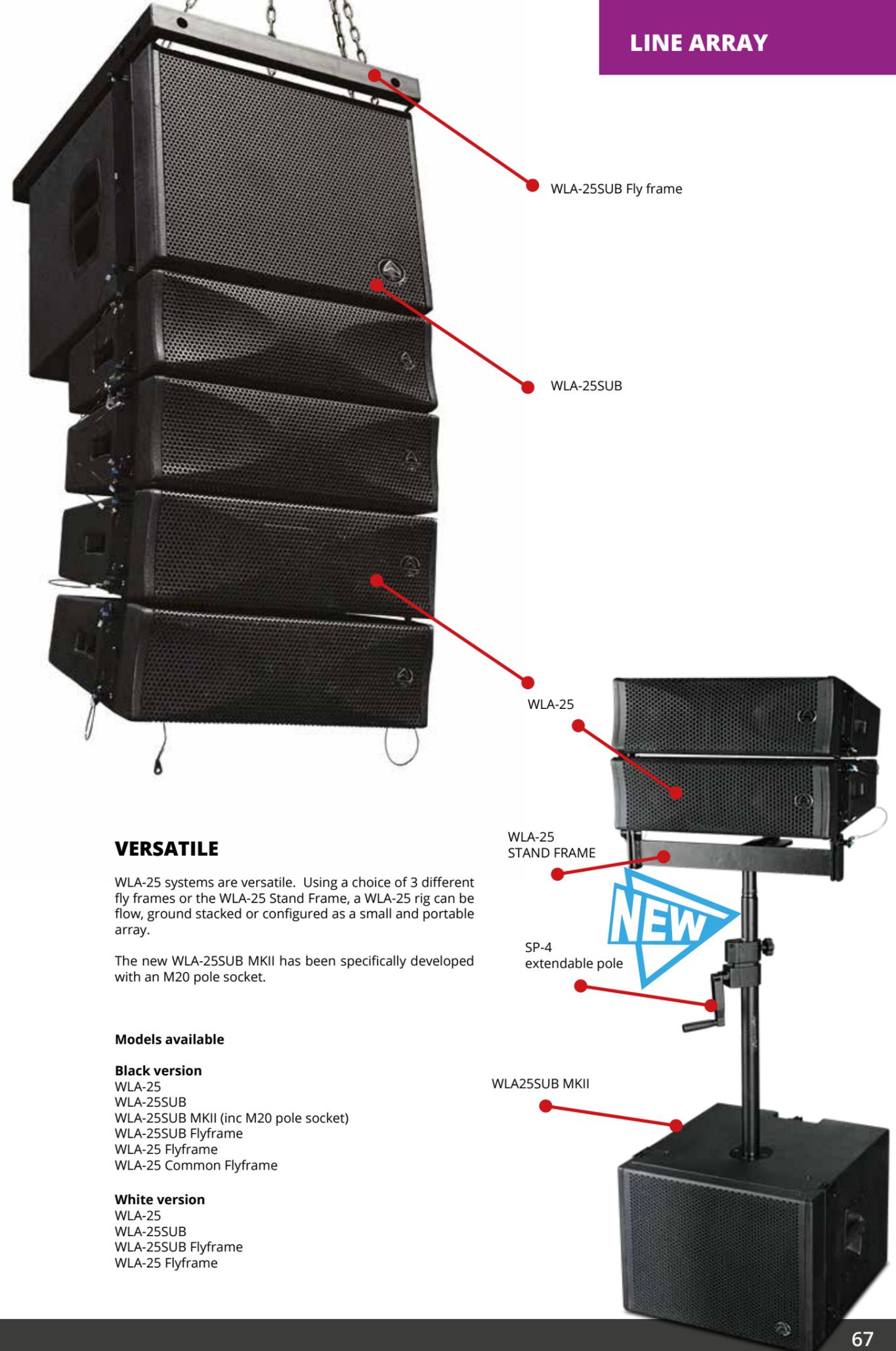
horn delivers consistent HF accuracy and detail. In addition, the trapezoidal enclosure has been developed to reduce any acoustic sidelobes within the array.

For low-end punch we have also created the 141dB SPL WLA-25SUB subwoofer. This subwoofer physically and acoustically matches the WLA-25 system. Using a reversed-phase horn loaded design, the 2 * 10" LF drivers with massive 2.5" coils deliver the consistent low end punch to complete this versatile array.

The hardware design allows the system to be groundstacked or it can be flown using the matching WLA-25 Flyframe or WLA-25SUB Flyframe.

Available in a black or white Rhino Rock covering, the compact WLA-25 and WLA-25SUB is a perfect system for multi-function halls, theatres, and houses of worship.

LINE ARRAY



WLA-25SUB Fly frame

WLA-25SUB

WLA-25

WLA-25 STAND FRAME

SP-4 extendable pole

WLA25SUB MKII



VERSATILE

WLA-25 systems are versatile. Using a choice of 3 different fly frames or the WLA-25 Stand Frame, a WLA-25 rig can be flown, ground stacked or configured as a small and portable array.

The new WLA-25SUB MKII has been specifically developed with an M20 pole socket.

Models available

- Black version**
 WLA-25
 WLA-25SUB
 WLA-25SUB MKII (inc M20 pole socket)
 WLA-25SUB Flyframe
 WLA-25 Flyframe
 WLA-25 Common Flyframe

- White version**
 WLA-25
 WLA-25SUB
 WLA-25SUB Flyframe
 WLA-25 Flyframe

WLA ground level subs

WLA monitors

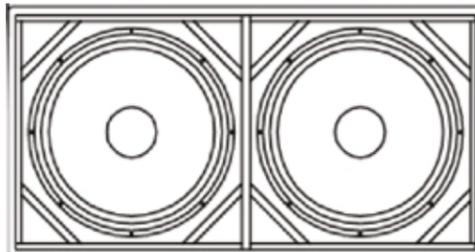


WLA-218SUB

Using a dual chamber cabinet, WLA-218SUB delivers huge bass in a versatile configuration. 2x18" LF transducers with massive 4" voice coils produce up to 138dB SPL - while their cast frame aluminium baskets reduce any risk of mechanical distortion.



A unique feature to WLA-218SUB is the Parallel and Discrete switch. This allows for single 4Ω or dual amplified 8Ω operation and connectivity.



- 1600w RMS / 3200w Programme / 6400w Peak
- Dual chamber enclosure allowing for use of single or dual amplifier channels
- Dual 18" cast frames Long throw 4" voice coil woofers
- Strong internal bracing prevents bass loss and distortion from enclosure vibration & resonance

- 4Ω parallel, single channel or discrete 8Ω dual channel configuration
- Black rhino paint to match with WLA-28 paint finish
- 18mm Birch plywood construction

WLA-218B

The WLA-218B is for those moments when you need more than just bass. You need sub-bass, you need punch, impact - and you need that sheer, breath-taking bottom-end power.

This massive subwoofer is designed for ground placement. The two 18" Wharfedale Pro LF transducers with massive 4" voice coils work together to deliver up to 148dB Max SPL. Using cast frame aluminium baskets, any mechanical distortion is dramatically reduced ensuring smooth, accurate and honest reproduction.



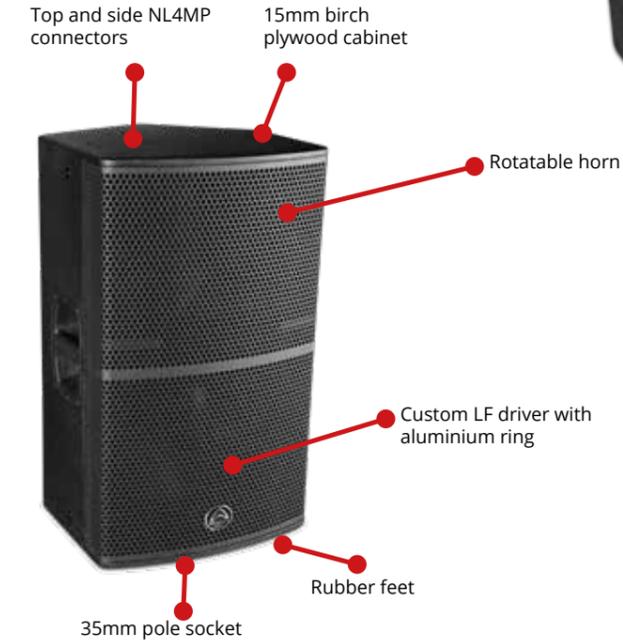
- 2000W RMS / 4000W Programme / 8000w Peak power
- Dual 18" cast frames
- Long throw 4" voice coil woofers
- 2 x Parallel speakON compatible inputs

- Black rhino paint finish
- Strong internal bracing prevents bass loss and distortion from enclosure vibration and resonance
- 18mm Birch plywood construction



WLA-15M

WLA-12M



- 3.2" Neo compression drivers with high flux density
- Rotatable horns for H or V applications
- 4 x Neutrik NL4MP connectors on top/side/rear
- Aluminium ring in LF transducer to reduce distortion
- Polygon design

	WLA-12M	WLA-15M
Configuration	2-way 12" passive floor monitor	2-way 15" passive floor monitor
Frequency Response (+/-3dB)	55Hz-20kHz	45Hz-20kHz
Sensitivity (1w @ 1m)	98dB	99.5dB
Dispersion (H x V)	90° x 60° (Rotatable)	90° x 60° (Rotatable)
RMS	500w	700w
Programme	1000w	1400w
Peak	2000w	2800w
Max SPL @ 1m	133dB	134dB
Impedance	8Ω	8Ω
LF transducer voice coil	3.5"	4.0"
HF compression driver voice coil	3.2" - Neo	3.2" - Neo
Crossover frequency	1.9kHz	1.9kHz
Rigging points	10 x M10	10 x M10
H x W x D	658 x 372 x 377.6mm	723 x 432 x 395.6mm
Net weight	26kg	33kg



Model Name	WLA-210X	WLA-210XSUB	WLA-28	WLA-15B	WLA-28SUB
System Type	Passive	Passive	Passive	Passive	Passive
Configuration	Two-way 2 x 10"	Dual 15" Subwoofer	Two-way 2 x 8"	Subwoofer	2 x 15" subwoofer
Frequency Response (+/-3dB)	65Hz - 20kHz	39Hz - 900Hz	70Hz - 20kHz	40Hz - 1.5kHz	39Hz-900Hz
Frequency Range (-10dB)	60Hz - 20kHz	35Hz - 1.5kHz	65Hz - 20kHz	35Hz - 1.3kHz	39Hz-1.5kHz
Sensitivity (2.83v/1m)	102dB	108dB	100dB	99dB	108dB
Calculated Maximum SPL @1m	LF:135dB HF:138dB	145dB	LF:128dB HF:132dB	133dB	145dB
System Rated Impedance	16Ω	4Ω	16Ω	8Ω	4Ω

Low Frequency Transducer

Size	2 x 260mm / 2 x 10"	2 x 381mm / 2 x 15"	2 x 203.2mm / 2 x 8"	381mm / 15"	2 * 381mm / 15"
Voice Coil Size	65mm / 2.5"	101.6mm / 4"	50.8mm / 2"	101.6mm / 4"	100mm / 4"
Rated Impedance	8Ω x 2	8Ω x 2	8Ω	8Ω	2 x 8Ω
LF Power (re:AES2-2012)	2 x 400W	2 x 600W	2 x 200W	700W	2 x 600w

High Frequency Transducer

HF Driver Type	Compression Driver - Neo	-	Compression Driver	-	-
Voice Coil Size	75mm / 3.0"	-	81.3mm / 3.2"	-	-
Exit Size	35.56mm / 1.4"	-	35.56mm / 1.4"	-	-
Diaphragm Material	Titanium	-	Titanium	-	-
Rated Impedance	8Ω	-	8Ω	-	-
HF Power (re:AES2-2012)	80W	-	80W	-	-
Nominal Coverage (H x V)	100° x 10°	-	100° x 10°	-	-

Power

System Continuous Power	LF:800W HF:90W	1200W	LF:400W HF:75W	700W	1200w
System Programme Power	LF:1800W HF:180W	2400W	LF:800W HF:150W	1400W	2400w
System Peak Power	LF:3600W HF:360W	4800W	LF:1600W HF:300W	2800W	4800w
Crossover frequency	1.5kHz	No	1.8kHz	No	No
Input Connector	2 x speakON compatible				

Hardware	Integral side plate adjustable rigging 0°-10°	Integral side plate non adjustable	Integral side plate adjustable rigging 0°-10°	Integral side plate non adjustable	Integral side plate non adjustable
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Enclosure

Enclosure Material	15mm / 18mm Plywood	18mm Plywood	15mm Plywood	15mm Plywood	15mm,18mm Plywood
Finish	Rhino Black Paint	Rhino Black Paint	Rhino Black Paint	Rhino Black Paint	Rhino Black Paint
Grille Material & Finish	1.2mm Black Steel	1.2mm Black Steel	1.2mm Black Steel	1.2mm Black Steel	1.2mm Black Steel

Dimensions - (Unpacked)

Height Front	314mm / 12.4"	485mm / 19.1"	250mm / 9.84"	485mm / 19.09"	485mm / 19.1"
Height Rear	240.2mm / 9.46"	485mm / 19.1"	188mm / 7.4"	485mm / 19.09"	485mm / 19.1"
Width	760mm / 29.9"	760mm / 29.9"	760mm / 29.92"	760mm / 29.92"	760mm / 29.9"
Depth	504mm / 19.84"	716mm / 28.2"	424mm / 16.69"	440mm / 17.32"	716mm / 28.2"

Dimensions - (Packed)

Height	404mm / 15.9"	575mm / 22.6"	375mm / 14.76"	545mm / 21.46"	850mm / 33.5"
Width Front	855mm / 33.7"	850mm / 33.5"	545mm / 21.46"	580mm / 22.83"	575mm / 22.6"
Width Rear	855mm / 33.7"	850mm / 33.5"	545mm / 21.46"	580mm / 22.83"	575mm / 22.6"
Depth	594mm / 23.4"	806mm / 31.7"	855mm / 33.66"	860mm / 33.86"	806mm / 31.7"

Weight

Net Weight (kg / lbs)	34.8kg / 76.6lbs	63.0kg / 138.4lbs	27kg / 59.52lbs	38.5kg / 84.88lbs	61.2kg / 134.6lbs
Gross Weight (kg / lbs)	38.5kg / 84.7lbs	68.0kg / 149.6lbs	33kg / 72.75lbs	46.5kg / 102.51lbs	66.0kg / 145.2lbs



Model Name	WLA-25	WLA-25SUB	WLA-218SUB	WLA-218B
System Type	Passive	Passive	Passive	Passive
Configuration	Two-way	2 x 10" subwoofer	2 x 18" Dual Chamber Sub	2 x 18" subwoofer
Frequency Response (+/-3dB)	108Hz-18kHz	56Hz-1.5kHz	30Hz - 1.5kHz	30Hz - 1kHz
Frequency Range (-10dB)	108Hz-20kHz	56Hz-2.0kHz	30Hz - 1.5Hz	25Hz - 800Hz
Sensitivity (2.83v/1m)	HF:108dB/LF:100dB	107dB	100dB	109dB
Calculated Maximum SPL @1m	HF:135dB/LF:127dB	141dB	138dB	148dB
System Rated Impedance	16Ω	4Ω	Parallel 4Ω, Discrete 8Ω x 2	4Ω

Low Frequency Transducer

Size	2 x 130mm / 5"	2 x 254mm / 10"	2 x 470mm / 18"	2 x 470mm / 18"
Voice Coil Size	35.0mm / 1.4"	65.5mm / 2.5"	102mm / 4"	102mm / 4"
Rated Impedance	16Ω	8Ω	2 x 8Ω	2 x 8Ω
LF Power (re:AES2-2012)	2 x 60W	2 x 350W	2 x 800w	2 x 1000w

High Frequency Transducer

HF Driver Type	Compression Driver - Neo	-	-	-
Voice Coil Size	44mm / 1.75"	-	-	-
Exit Size	1"	-	-	-
Diaphragm Material	Titanium	-	-	-
Rated Impedance	16Ω	-	-	-
HF Power (re:AES2-2012)	40W	-	-	-
Nominal Coverage (H x V)	100° x 10°	-	-	-

Power

System Continuous Power	120W	700W	1600w Parallel / 800w Discrete	2000w
System Programme Power	240W	1400W	3200w Parallel / 1600w Discrete	4000w
System Peak Power	480W	2800W	6400w Parallel / 3200w Discrete	8000w
Crossover frequency	3.7kHz			
Input Connector	2 x speakON compatible	2 x speakON compatible	2 x speakON compatible	2 x speakON compatible

Hardware	Integral side plate adjustable rigging 0°-10°	Integral, non adjustable		
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Enclosure

Enclosure Material	15mm,18mm Plywood	15mm,18mm Plywood	18mm Plywood	18mm Plywood
Finish	Rhino Black or white paint	Rhino Black or white paint	Rhino Rock black paint	Rhino Rock black paint
Grille Material & Finish	Steel	Steel	Steel	Steel

Dimensions - (Unpacked)

Height Front	164.5mm / 6.47"	400mm / 15.74"	541mm / 21.3"	560mm / 22.0"
Height Rear	112.5mm / 4.4"	400mm / 15.74"	541mm / 21.3"	560mm / 22.0"
Width	536mm / 21.1"	536mm / 21.10"	1041mm / 41"	1065mm / 41.9"
Depth	363mm / 14.3"	550mm / 21.65"	650mm / 25.6"	756mm / 29.8"

Dimensions - (Packed)

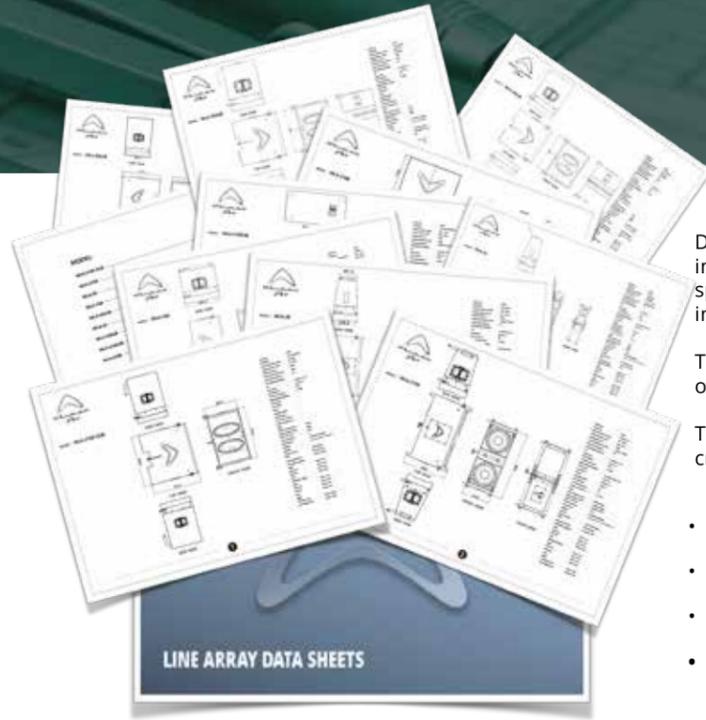
Height	606mm / 23.85"	610mm / 24.01"	626mm / 25.6"	638mm / 25.1"
Width Front	430mm / 16.92"	470mm / 18.50"	1126mm / 44.3"	1138mm / 44.8"
Width Rear	430mm / 16.92"	470mm / 18.50"	1126mm / 44.3"	1138mm / 44.8"
Depth	235mm / 9.25"	596mm / 23.46"	722mm / 28.4"	829mm / 32.6"

Weight

Net Weight (kg / lbs)	13.0kg / 28.66lbs	37.0kg / 81.57lbs	78.9kg / 173.5lbs	74.3kg / 164lbs
Gross Weight (kg / lbs)	15.0kg / 33.06lbs	39.5kg / 87.08lbs	86.0kg / 189.6lbs	88.2kg / 194lbs

INSTALLATION

TOOLS TO MAKE IT EASY TO CREATE THE PERFECT INSTALL



Designing and installing a PA system can be complex. It is important to know the exact product dimensions, precise specifications and what other hardware is needed to make the installation process as simple as possible.

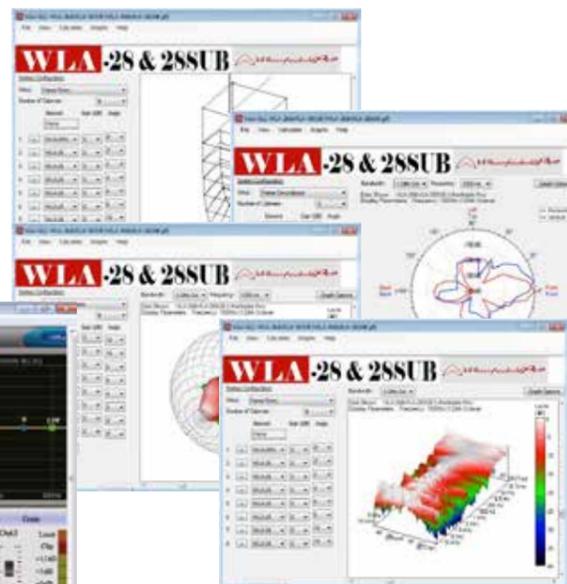
To make this easy, there are downloadable 'Data Sheets' for all of the Wharfedale Pro Installation series and line array models.

These 'Data Sheets' give you the facts and figures needed to create powerful, reliable and extensive system installations.

- Precise cabinet measurements
- Comprehensive product specifications
- Clear rigging point measurements
- **Free downloads from www.wharfedalepro.com**

EASE Data is also available for many Wharfedale Pro line array models.

These data files make configuration and planning predictable.



And, for even more control over the installation and system setup, Wharfedale Pro Versadrive DSP systems have preset files available to make building a system easy and straightforward.

Delta series, Focus series and WLA systems can be designed using the supplied software and free downloadable presets.



WH NEO

Its a TRIO.....of NEO.



WH-10 NEO



WH-12 NEO



WH-15 NEO

Using neodymium magnets in both the LF and HF drivers and plywood construction, the WH-NEO's deliver high power handling from a lightweight and good looking installation-ready cabinet.

Model Name	WH-10 NEO	WH-12 NEO	WH-15 NEO
System Type	Passive - 2 way	Passive - 2 way	Passive - 2 way
Frequency Response (+/-3dB)	65-18kHz	55-18kHz	50-18kHz
Frequency Range (-10dB)	60-20kHz	50-20kHz	45-20kHz
Sensitivity 2.83v/1m	97dB	98 dB	99 dB
Calculated Maximum SPL @1m	128dB	130dB	132dB
System Rated Impedance	8Ω	8Ω	8Ω
LF : Size (mm / inches)	288mm / 10"	305mm / 12"	381mm / 15"
LF :Voice Coil Size (mm / inches)	63.5mm / 2.5"	75mm / 3.0"	75mm / 3.0"
LF Magnet Material	NdFeB	NdFeB	NdFeB
LF Power re:AES2-2012	300W	400W	500W
HF Driver Type:	1" Compression Driver	1" Compression Driver	1" Compression Driver
HF Coil Size (mm / inches)	44mm / 1.75"	44mm / 1.75"	44mm / 1.75"
HF Magnet Material	NdFeB	NdFeB	NdFeB
HF Diaphragm Material	Titanium	Titanium	Titanium
Waveguide Type	Rounded	Rounded	Rounded
Nominal Coverage (H x V)	70° x 70°	70° x 70°	70° x 70°
System Continuous Power	300w	400w	500w
System Programme Power	600w	800w	1000w
System Peak Power	1200w	1600w	2000w
Crossover frequency	2.5kHz	2.5kHz	2.5kHz
CONNECTORS : Input Connector	2 * NL4 (speakON compatible)	2 * NL4 (speakON compatible)	2 * NL4 (speakON compatible)
Rigging	M8 * 19	M8 * 19	M8 * 19
Pole mount	35mm pole socket	35mm pole socket	35mm pole socket
Handles	NO	NO	NO
ENCLOSURE : Cabinet type	Trapezoid	Trapezoid	Trapezoid
Enclosure Material and finish	15mm plywood / Black paint	15mm plywood / Black paint	15mm plywood / Black paint
Grille Material & Finish	Steel	Steel	Steel
Dimensions - Unpacked : Height	533mm / 21.0"	600mm / 23.6"	680mm / 26.8"
Width Front	310mm / 12.2"	350mm / 13.8"	430mm / 16.9"
Width Rear	210mm / 8.3"	242mm / 9.5"	298mm / 11.7"
Depth	342mm / 13.5"	388mm / 15.3"	463mm / 18.2"
Dimensions - Packed : Height	615mm / 24.2"	680mm / 26.8"	760mm / 29.9"
Width Front / Rear	386mm / 15.2"	426mm / 16.8"	506mm / 19.9"
Depth	416mm / 16.4"	458mm / 18.0"	526mm / 20.7"
Net Weight (kg / lbs)	15.0kg / 33lbs	18.8kg / 41.4lbs	23.7kg / 52.1lbs
Gross Weight (kg / lbs)	18.7kg / 41.1lbs	22.6kg / 49.7lbs	27.6kg / 60.7lbs

i8 and i8T

ABS plastic installation speakers - with transformer option



The i8 and i8T are two-way high performance loudspeakers specifically designed for distributed music, paging and speech applications.

Each model features a quality 8" low frequency transducer and 1" dome tweeter housed inside a durable ABS enclosure - with a full protective frontal grille.

Both models feature Phoenix (Euroblock) input connections for easy on-site wiring, and both models are supplied with a sturdy, adjustable wall mounting bracket.

i8 is a low-impedance 8Ω model and i8T features an internal transformer for use with 70/100V installations.



Brackets included

- Durable ABS construction with full face grille
- Integral mounting bracket - included
- Seismic restraint tethers - included
- 8" LF driver with 1" dome HF tweeter
- Low impedance and transformer versions available
- Supplied in PAIRS

Installation Speakers



Model Name	i8	i8T
System Type	Passive	Passive
Configuration	Two-way	Two-way
Frequency Response (+/-3dB)	70Hz - 20kHz	70Hz - 20kHz
Frequency Range (-10dB)	50Hz - 20kHz	50Hz - 20kHz
Sensitivity (2.83v/1m)	87dB	86dB
Calculated Maximum SPL @1m	110dB	103dB
System Rated Impedance	8Ω	8Ω
Low Frequency Transducer		
Size	8"	8"
Voice Coil Size	1"	1"
Rated Impedance	8Ω	8Ω
LF Power (re:AES2-2012)	50W	50W
High Frequency Transducer		
HF Driver Type	Soft dome tweeter	Soft dome tweeter
Voice Coil Size	1"	1"
Diaphragm Material	Silk	Silk
Rated Impedance	4Ω	4Ω
HF Power (re:AES2-2012)	10W	10W
Nominal Coverage (H x V)	130° x 180°	130° x 180°
Power		
System Continuous Power	50w	70v : 12.5w / 25w / 50w
System Programme Power	100w	100v : 25w / 50w
System Peak Power	200w	
Crossover frequency	2.0kHz	2.0kHz
Input Connector	Phoenix terminal	Phoenix terminal
Hardware	Wall mount bracket included	Wall mount bracket included
Enclosure		
Enclosure Material and finish	Plastic (ABS)	Plastic (ABS)
Colour Options	Black	Black
Grille Material & Finish	Aluminium	Aluminium
Dimensions - Unpacked		
Height	405mm / 15.8"	405mm / 15.8"
Width	270mm / 10.6"	270mm / 10.6"
Depth	234mm / 9.2"	234mm / 9.2"
Dimensions - Packed		
Height	602mm / 23.7"	602mm / 23.7"
Width	363mm / 14.3"	363mm / 14.3"
Depth	549mm / 21.6"	549mm / 21.6"
Weight		
Net Weight (single speaker)	4.7kg / 10.34lbs	5.7kg / 12.54lbs
Gross Weight (1PAIR inc brackets)	12.7kg / 27.9lbs	14.7kg / 32.34lbs

SIGMA Series

SPECIFICALLY ENGINEERED FOR FIXED INDOOR INSTALLATIONS



Available in black or white and with comprehensive rigging options SIGMA SERIES is already a versatile and favourite choice for installers.

DOUBLE ROLL SURROUND & DRIVER TECHNOLOGY

Sigma Series loudspeakers use the latest in Wharfedale Pro driver technology: For the LF drivers, engineers have incorporated a curvilinear, double-roll surround for smooth mid-high transitions and stability for low through to mid range frequencies. Combined with 2.5" voice coils (on 12, 15 and 18B models) for improved thermal dissipation, users can expect consistent delivery at the highest of volumes throughout a performance. The 44mm diaphragm HF driver used in the 10", 12" and 15" models is equally robust in design – using a solid aluminum rear plate, the HF driver is strengthened for durability and heat is dissipated efficiently for demanding environments. Wharfedale Pro engineers have selected a 90° x 60° waveguide optimised for wide coverage for fixed installation purposes.

ACOUSTICALLY MATCHED CABINET

Wharfedale Pro engineers have matched the acoustic properties of the cabinet to the proprietary driver technology within, while taking physical aspects into consideration to ensure optimal positioning and size for installation. By using a newly-developed angled-corner port system, cabinet height and overall size has been reduced – ideal for unobtrusive mounting within your venue. Additionally the angle-corner port system is fine-tuned acoustically to ensure low-end punch – just as you would expect with a larger PA speaker. The cabinets of the SIGMA 10, 12 and 15 also feature dual-angle pole mount sockets ensuring the long-throw HF driver projects the sound directly to your audience. There are also 5 x M8 rigging points for safe and secure flying where needed. SIGMA Series is coated in the latest generation chip-resistant, Rhino Rock paint.

FINE-TUNED CROSSOVER

The crossovers ensure perfect integration between the drive units and acoustic properties of the cabinet. Electronic components are carefully selected, while over-complex networks have been avoided to maintain a pure and strong audio signal. Engineers have fine-tuned the crossover points for vocal intelligibility and tuned the high frequencies for long-throw to ensure clear coverage right to the back of your venue.

SIGMA V4 and V8

High powered column formation models

Using true line array technology, the V4 and V8 are perfect for sound reinforcement installations where discreet aesthetics, high coverage angles and SPL are critical.

Both 'V' models use multiple 3" full range transducers for warm lows and crystal clear highs. Optimised transducer alignment delivers minimal anti-aliasing effects and maximum phase alignment.

With programme power ratings of 300w (V4) and 600w (V8) and their Ultra-wide horizontal dispersion, these column models have been voiced to work perfectly with other models in the Wharfedale Pro SIGMA range.

Both are supplied with swivel/tilt mounting brackets and are available in black or white finishes.

Installation Speakers



SIGMA 18B Subwoofer

With power ratings of 500W RMS, 1000W Program and 2000W Peak, the SIGMA 18B delivers impressive low-end punch. SIGMA 18B also features an NL4 (speakON compatible) High Pass Output connector allowing for direct connection to another model in the SIGMA series.

- Discreet and unobtrusive design
- Newly developed angled corner port system to reduce dimensions
- Multiple M8 rigging points and a two way speaker pole mount for easy installation
- Crossovers tailored for vocal intelligibility
- Chip resistant Rhino Rock paint
- Double roll surround LF driver for stability and power
- High performance HF driver with aluminium rear cover for maximum heat dissipation
- 2.5" voice coils on 12", 15" and 18B models
- Series includes 2 column line array models with 160° horizontal dispersion
- 7 models available in black or white in the range for maximum flexibility

SPECIFICATIONS

Installation Speakers



Model Name	SIGMA-8	SIGMA-10	SIGMA-12	SIGMA-15
System Type	Passive	Passive	Passive	Passive
Configuration	Two-way	Two-way	Two-way	Two-way
Frequency Response (+/-3dB)	70Hz-18kHz	65-18kHz	60-18kHz	50-18kHz
Frequency Range (-10 dB)	65-20kHz	60-20kHz	55-20kHz	45-20kHz
Sensitivity 2.83v/1m	94 dB	95 dB	97 dB	98 dB
Calculated Maximum SPL @1m	122 dB	124 dB	128 dB	129 dB
System Rated Impedance	8Ω	8Ω	8Ω	8Ω
Low Frequency Transducer:				
Size (mm / inches)	203mm / 8"	254mm / 10"	305mm / 12"	381mm / 15"
Voice Coil Size (mm / inches)	38mm / 1.5"	38mm / 1.5"	64mm / 2.5"	64mm / 2.5"
Rated Impedance	8Ω	8Ω	8Ω	8Ω
LF Power re:AES2-2012	150w	200w	300w	350w
High Frequency Transducer				
HF Driver Type:	Compression Driver	Compression Driver	Compression Driver	Compression Driver
Coil Size (mm / inches)	25mm / 1"	44mm / 1.75"	44mm / 1.75"	44mm / 1.75"
Exit Size (mm / inches)	1"	1"	1"	1"
Diaphragm Material	Polymer	Titanium	Titanium	Titanium
Rated Impedance	8Ω	8Ω	8Ω	8Ω
HF Power re:AES2-2012	25w	40w	40w	40w
Nominal Coverage (H x V)	90° x 60°	90° x 60°	90° x 60°	90° x 60°
Power				
System Continuous Power	150w	200w	300w	350w
System Programme Power	300w	400w	600w	700w
System Peak Power	600w	800w	1200w	1400w
Crossover frequency	2.8kHz	2.4kHz	2.2kHz	2.2kHz
Input Connector	2 x NL4 (speakON compatible)	2 x NL4 (speakON compatible)	2 x NL4 (speakON compatible)	2 x NL4 (speakON compatible)
Hi Pass output connector				
Pole mount	35mm pole socket	Dual-angle (0° / 10°) 35mm socket	Dual-angle (0° / 10°) 35mm socket	Dual-angle (0° / 10°) 35mm socket
Hardware	M8 x 5 1 handle on back	M8 x 5 1 handle on back	M8 x 5 2 handles on sides	M8 x 5 2 handles on sides
Enclosure:				
Enclosure Material	12mm MDF	15mm MDF	15mm MDF	15mm MDF
Finish	Black or white	Black or white	Black or white	Black or white
Grille Material & Finish	1.2mm steel, painted	1.2mm steel, painted	1.2mm steel, painted	1.2mm steel, painted
Dimensions - Unpacked				
Height	430mm / 17"	500mm / 19.5"	537mm / 21"	635mm / 25"
Width Front	272mm / 11"	383mm / 13.3"	354mm / 14"	435mm / 17"
Width Rear	158mm / 6"	213mm / 8.4"	218mm / 8"	261mm / 11.7"
Depth	277mm / 13.5"	339mm / 13.35"	359mm / 14"	439mm / 17.25"
Dimensions - Packed				
Height	505mm / 20"	585mm / 23"	625mm / 24.6"	720mm / 28.35"
Width Front	363mm / 14.25"	451mm / 18"	468mm / 18.4"	553mm / 21.75"
Width Rear	196mm / 7.71"	254mm / 10"	260mm / 10.2"	303mm / 12"
Depth	322mm / 12.75"	384mm / 13.3"	404mm / 15.9"	488mm / 19.2"
Weight				
Net Weight	7.8kg / 17lbs	15.4kg / 34lbs	18.2kg / 40lbs	23.4kg / 51.5lbs
Gross Weight	8.8kg / 19lbs	17.8kg / 38.5lbs	20.9kg / 45lbs	26.7kg / 58.7lbs



Model Name	SIGMA-18B	SIGMA-V4	SIGMA-V8
System Type	Passive	Passive	Passive
Configuration	Subwoofer	Full Range Column	Full Range Column
Frequency Response (+/-3dB)	35-250Hz	160Hz-17kHz	130Hz-17kHz
Frequency Range (-10 dB)	30-250Hz	150Hz-20kHz	120Hz-20kHz
Sensitivity 2.83v/1m	100 dB	95 dB	97 dB
Calculated Maximum SPL @1m	133 dB	123 dB	128 dB
System Rated Impedance	4Ω	8Ω	8Ω
Low Frequency Transducer:			
Size (mm / inches)	457mm / 18"	4 x 75mm / 3"	8 x 75mm / 3"
Voice Coil Size (mm / inches)	64mm / 2.5"	33mm / 1.3"	33mm / 1.3"
Rated Impedance	4Ω	8Ω	4Ω
LF Power re:AES2-2012	500w	40w	40w
High Frequency Transducer			
HF Driver Type:	na	na	na
Coil Size (mm / inches)	na	na	na
Exit Size (mm / inches)	na	na	na
Diaphragm Material	na	na	na
Rated Impedance	na	na	na
HF Power re:AES2-2012	na	na	na
Nominal Coverage (H x V)	na	80° Horizontal	80° Horizontal
Power			
System Continuous Power	500w	150w	300w
System Programme Power	1000w	300w	600w
System Peak Power	2000w	600w	1200w
Crossover frequency	150Hz	na	na
Input Connector	2 x NL4 (speakON compatible)	1 x NL4 (speakON compatible)	1 x NL4 (speakON compatible)
Hi Pass output connector	1 x NL4 (speakON compatible)		
Pole mount	35mm pole socket	Bracket (included)	Bracket (included)
Hardware	4 handles on sides		
Enclosure:			
Enclosure Material	18mm MDF	12mm MDF	12mm MDF
Finish	Black or white	Black or white	Black or white
Grille Material & Finish	1.2mm steel, painted	1.2mm steel, painted	1.2mm steel, painted
Dimensions - Unpacked			
Height	554mm / 21.25"	445mm / 17.5"	805mm / 32"
Width Front	502mm / 20"	116mm / 4.6"	116mm / 4.6"
Width Rear	502mm / 20"	85mm / 3.3"	85mm / 3.3"
Depth	780mm / 30.8"	115mm / 4.5"	115mm / 4.5"
Dimensions - Packed			
Height	649mm / 25.5"	520mm / 20.5"	880mm / 34.5"
Width Front	588mm / 22.75"	220mm / 8.7"	220mm / 8.7"
Width Rear	588mm / 22.75"	220mm / 8.7"	220mm / 8.7"
Depth	865mm / 34"	220mm / 8.7"	220mm / 8.7"
Weight			
Net Weight	39.1kg / 86lbs	3kg / 6.6lbs	5.6kg / 12.32lbs
Gross Weight	46.4kg / 102lbs	3.6kg / 8lbs	6.6kg / 14.2lbs

PROGRAMME Series

DISCREET AND STYLISH FIXED INSTALLATION PA

70V
100V



Available in 70V/100V
Line Configurations

Lightweight

Discreet Visual
Design

Full Range Sound

Multiple Installation
Options

Durable, Painted
Speaker Cabinet

Stylish, Compact & Discrete

The discreet and stylish appearance of the Programme Series seamlessly integrates into any architectural environment. Frequency response has been optimised to be smooth and natural across the vocal range for high intelligibility in difficult environments, while retaining the neutral and uncoloured sound essential for unobtrusive reproduction of background music.

Low impedance compatibility

Programme series feature a separate low impedance input for loss free connection to a low impedance amplifier. Many models also feature a mode switch which bypasses the secondary coil of the line transformer, eliminating insertion loss. This combination of separate input and mode switch also protects the unit from incorrect connection to a 70/100v line system in low impedance mode.

Flexible, easy installation

Lightweight compact enclosures make the Programme Series easy to install. From the compact 35E to the multiple drivers of the 406, you have the flexibility needed to provide the best sound value. With the included mounting brackets and the transformer option, you will be impressed with the ease of wall or ceiling mounting as well as the clear, accurate sound produced by these speakers.

- 2-way installation speaker systems
- Mylar, silk and titanium HF drivers used across range
- Low distortion, high power woofers
- M6 or M8 high hanging points
- NL4 (speakON compatible), parallel spring crimp and barrier strip inputs
- Supplied with adjustable heavy duty steel bracket
- Models available with 70v/100v Transformer ('T' model)
- Most models available in black or white finishes



Installation Speakers



Model Name	Programme 35E / 35ET	Programme 105 / 105T	Programme 108 / 108T	Programme 205 / 205T	Programme 206 / 206T	Programme 406 / 406T
System Type	Passive	Passive	Passive	Passive	Passive	Passive
Configuration	Two-way	Two-way	Two-way	Two-way	Two-way	Two-way
Freq Response (+/-3dB)	65Hz - 20kHz	75Hz - 20kHz	60Hz - 20kHz	70Hz - 20kHz	65Hz - 20kHz	60Hz - 20kHz
Frequency Range (-10dB)	60Hz - 20kHz	70Hz - 20kHz	55Hz - 20kHz	65Hz - 20kHz	60Hz - 20kHz	55Hz - 20kHz
Sensitivity (2.83v/1m)	88dB	89dB	90dB	91dB	93dB	96dB
Calculated Max SPL @1m	112dB	114dB	118dB	117dB	120dB	126dB
System Rated Impedance	8Ω	8Ω	8Ω	8Ω	8Ω	8Ω
LF Transducer						
Size	165.1mm / 6.5"	127mm / 5"	203.2mm / 8"	2 x 127mm / 2 x 5"	2 x 165.1mm / 2 x 6.5"	4 x 165.1mm / 2 x 6.5"
Voice Coil Size	25.5mm / 1"	25.5mm / 1"	51.5mm / 2"	25.5mm / 1"	25.5mm / 1"	25.5mm / 1"
Rated Impedance	8Ω	8Ω	8Ω	8Ω	8Ω	8Ω
LF Power (re:AES2-2012)	60w	60w	150w	2x50w	2x65w	4x65w
HF Transducer						
HF Driver Type						
Voice Coil Size	25.4mm / 1"	25.4mm / 1"	25.4mm / 1"	25.4mm / 1"	25.4mm / 1"	25.4mm / 1"
Exit Size	25.4mm / 1"	25.4mm / 1"	25.4mm / 1"	25.4mm / 1"	25.4mm / 1"	25.4mm / 1"
Diaphragm Material	silk Dome	titanium	titanium	titanium	titanium	titanium
Rated Impedance	8Ω	8Ω	8Ω	8Ω	8Ω	8Ω
HF Power (re:AES2-2012)	10w	15w	15w	15w	15w	15w
Nominal Coverage (H x V)	70° x 70°	60° x 60°				
Power						
System Continuous Power	60w	80w	150w	100w	150w	250w
System Programme Power	120w	160w	300w	200w	300w	500w
System Peak Power	240w	320w	600w	400w	600w	1000w
Crossover frequency	2.3kHz	2.3kHz	2.3kHz	2.3kHz	2.3kHz	2.3kHz
Input Connector	Bare Wire Spring	Barrier Strip	2 x NL4 + Barrier Strip	Barrier Strip	2 x NL4 + Barrier Strip	2 x NL4 + Barrier Strip
Hardware						
Rigging	M6 x 4 (Bracket Inc.)	M8 x 14	M8 x 18	M8 x 18	M8 x 18	M8 x 18
Mounting bracket	Included	Included	Included	Included	Included	Included
Enclosure						
Enclosure Material	MDF	MDF	MDF	MDF	MDF	MDF
Finish	Black Paint	Black / White Paint	Black / White Paint	Black / White Paint	Black / White Paint	Black / White Paint
Grille Material & Finish	Black Full (Cloth)	Black / White Full (Steel)				
Dimensions - Unpacked						
Height	275mm / 10.83"	304mm / 11.97"	458mm / 18.03"	500mm / 19.69"	660.5mm / 26"	980mm / 38.58"
Width Front	196mm / 7.72"	184mm / 7.24"	248mm / 9.76"	184mm / 7.24"	215mm / 8.46"	215mm / 8.46"
Width Rear	196mm / 7.72"	184mm / 7.24"	248mm / 9.76"	184mm / 7.24"	215mm / 8.46"	215mm / 8.46"
Depth	192mm / 7.56"	205mm / 8.07"	275mm / 10.83"	205mm / 8.07"	275mm / 10.82"	275mm / 10.82"
Dimensions - Packed						
Height	326mm / 12.8"(pair)	379mm/14.9"	543mm/21.4"	585mm/23.0"	745mm/29.3"	1065mm/41.9"
Width Front	488mm/19.2"(pair)	250mm/9.8"	311mm/12.2"	250mm/9.8"	278mm/10.9"	278mm/10.9"
Width Rear	488mm/19.2"(pair)	250mm/9.8"	311mm/12.2"	250mm/9.8"	278mm/10.9"	278mm/10.9"
Depth	256mm/10.1(pair)	274mm/10.8"	346mm/13.6"	274mm/10.8"	346mm/13.6"	346mm/13.6"
Weight						
Net Weight / T-model	6.2kg/8.06kg(pair)	5.22Kg/6.3kg	9.34Kg/10.8kg	11.36Kg/13.86kg	17.8Kg/20.3kg	9.34Kg/10.8kg
Gross Weight / T-model	8.3kg/10.16kg(pair)	6.59Kg/7.7kg	12.66Kg/15.16kg	14.05Kg/16.5kg	20.95Kg/23.45kg	12.66Kg/15.16kg

SI-X Series

UNOBTRUSIVE, FIXED SOUND INSTALLATION WITH SONIC ACCURACY



Advanced Crossover Design



Circular Horn Design



Advanced motor systems



Clear sound with excellent off-axis rejection



Multiple Installation Options



Durable, Painted Speaker Cabinet



The SI-X speaker series have been designed for unobtrusive fixed installation, where sonic accuracy, detail and high SPL are essential characteristics.

From the SI-10X to the SI-15X plus three high power subs, you have what it takes to assemble the system that your music deserves. With both barrier strip and 2 x NL4 (speakON compatible) connectors, SI-X also offers versatility when making the connections.

An important factor in loudspeakers is the smoothness of the sound coverage. Many speakers that may sound acceptable in the horizontal plane have problems in the vertical plane. The SI-X speakers exhibit very smooth and well-behaved sound dispersion characteristics in both the horizontal and vertical planes making positioning and set-up less critical. Everyone in the room will hear the same quality sound.

Because of the multi-faceted cabinet design, the SI-X speakers can be positioned on the floor as a stage monitor or mounted on a wall or ceiling (using the U-shaped brackets included with the speaker).

The SI-X Series rugged cabinets feature 20 x M8 threaded inserts to facilitate the safe installation of the loudspeaker and are available in black or white durable paint finishes.

- 2-way reflex systems
- Folded horn and Direct Radiating subwoofers
- 25.4mm Titanium high frequency compression drivers
- Low distortion, high power woofers
- 70° x 70° High Frequency Horn
- Multifaceted 40° x 50° durable MDF enclosure
- 20 x M8 hanging points for easy and safe rigging
- NL4 (speakON compatible) & Barrier Strip inputs
- Available in black or white durable paint finishes
- U-shaped steel mounting bracket included

Installation Speakers



Model Name	SI-10X	SI-12X	SI-15X	SI-28X	SI-12BX	SI-15BX	SI-18BX
	Passive	Passive	Passive	Passive	Passive	Passive	Passive
Configuration	Two-way	Two-way	Two-way	Two-way	Subwoofer	Subwoofer	Subwoofer
Freq Response (+/-3dB)	60Hz - 20kHz	60Hz - 20kHz	50Hz-20kHz	60Hz - 20kHz	40Hz-250Hz	38Hz - 220Hz	35Hz - 200kHz
Freq Range (-10 dB)	55Hz - 20kHz	55Hz - 20kHz	45Hz-20kHz	55Hz - 20kHz	35Hz-250Hz	35Hz - 220Hz	30Hz - 200kHz
Sensitivity (2.83v/1m)	93dB	96dB	97dB	91dB	101dB	105dB	99dB
Calculated Max SPL @1m	121dB	126dB	129dB	121dB	132dB	138dB	134dB
System Impedance	8Ω	8Ω	8Ω	8Ω or 4Ω	8Ω or 4Ω	8Ω or 4Ω	8Ω or 4Ω
LF Transducer							
Size	254mm / 10"	304.9mm / 12"	381mm / 15"	2 x 203.2mm / 8"	304.8mm / 12"	381mm / 15"	470mm / 18"
Voice coil Size	38.9mm / 1.5"	64.3mm / 2.5"	77.1mm / 3.0"	51.6mm / 2.0"	102mm / 4"	102mm / 4"	102mm / 4"
Rated Impedance	8Ω	8Ω	8Ω	8Ω or 4Ω	8Ω or 4Ω	8Ω or 4Ω	8Ω or 4Ω
LF Power (re:AES2-2012)							
HF Transducer							
HF Driver Type	Compression Driver	Compression Driver	Compression Driver	Compression Driver	-	-	-
Voice coil Size	44mm / 1.75"	44mm / 1.75"	44mm / 1.75"	44mm / 1.75"	-	-	-
Exit Size	25mm / 1"	25mm / 1"	25mm / 1"	25mm / 1"	-	-	-
Diaphragm Material	Titanium	Titanium	Titanium	Titanium	-	-	-
Rated Impedance	8Ω	8Ω	8Ω	8Ω	-	-	-
HF (re:AES2-2012)	40W	40W	40W	40W	-	-	-
Nominal Coverage	70° x 70°	70° x 70°	70° x 70°	70° x 70°	-	-	-
Power							
Continuous Power	200W	250W	400W	250W	300W	450W	800W
Programme Power	400W	500W	800W	500W	600W	900W	1600W
Peak Power	800W	1000W	1600W	1000W	1200W	1800W	3200W
Crossover frequency	2.5kHz	2.4kHz	2.5kHz	2.6kHz	-	-	-
Input Connector	2 x NL4 + Barrier Strip	2 x NL4 + Barrier Strip	2 x NL4 + Barrier Strip	2 x NL4 + Barrier Strip			
Hardware							
Rigging	20 x M8 Points + Wall Bracket						
Pole Mount	No	No	No	No	No	No	No
Enclosure							
Enclosure Material	MDF	MDF	MDF	MDF	MDF	MDF	MDF
Finish	Black or White	Black or White	Black or White	Black or White	Black or White	Black or White	Black or White
Grille Material & Finish	1.2mm Steel	1.2mm Steel	1.2mm Steel	1.2mm Steel	1.2mm Steel	1.2mm Steel	1.2mm Steel
Dimensions - Unpacked							
Height	512mm / 20.2"	562mm / 22.1"	640mm / 25.2"	675mm / 26.6"	302mm / 11.89"	266mm / 10.47"	620mm / 24.42"
Width Front	294mm / 11.58"	344mm / 13.54"	422mm / 16.61"	250mm / 9.84"	650mm / 25.59"	850mm / 33.46"	537mm / 21.14"
Width Rear	294mm / 11.58"	344mm / 13.54"	422mm / 16.61"	250mm / 9.84"	650mm / 25.59"	850mm / 33.46"	537mm / 21.14"
Depth	310mm / 12.2"	333mm / 13.1"	396mm / 15.6"	300mm / 11.9"	545mm / 21.46"	670mm / 26.38"	508mm / 20.0"
Dimensions - Packed							
Height	580mm / 22.83"	630mm / 24.8"	705mm / 27.76"	740mm / 29.13"	365mm / 14.37"	329mm / 12.95"	685mm / 26.97"
Width Front	348mm / 13.7"	408mm / 16.06"	482mm / 18.98"	313mm / 12.32"	715mm / 28.15"	913mm / 35.94"	600mm / 23.62"
Width Rear	348mm / 13.7"	408mm / 16.06"	482mm / 18.98"	313mm / 12.32"	715mm / 28.15"	913mm / 35.94"	600mm / 23.62"
Depth	358mm / 14.09"	371mm / 14.6"	433mm / 17.04"	338mm / 13.3"	605mm / 23.82"	733mm / 28.86"	575mm / 22.64"
Weight							
Net Weight	13.6kg / 29.9lbs	16.7kg / 36.7lbs	22kg / 48.4lbs	17.8kg / 39.2lbs	37.7kg / 82.9lbs	44.6kg / 98.1lbs	35.5kg / 78.1lbs
Gross Weight	17kg / 37.4lbs	20kg / 44lbs	25kg / 55lbs	21kg / 46.24lbs	44kg / 96.8lbs	53kg / 116.6lbs	44kg / 96.8lbs

80 and 90 Series

WIDE DISPERSION INSTALLATION LOUDSPEAKERS FOR DRAMATIC STEREO IMAGERY



80 Series

An attractive 2 way system designed for wall or shelf mounting, equally at home in a portrait or landscape orientation.

The philosophy behind these loudspeakers is simple. To further extend Wharfedale's reputation for excellent sound quality whilst employing innovative design to give a distinctive yet discrete appearance to these loudspeaker systems.

Traditionally the loudspeaker placement in rooms has been dominated by the needs of stereo reproduction and consequently most positions are a compromise enforced by the directionality of conventional loudspeakers.

However, Wharfedale's innovative solution is to use the 'Baker Effect', a phenomenon first noted in the 1930's. By mounting two HF drive units perpendicular to each other, and carefully contouring the crossover network, Wharfedale has been able to reproduce a dramatic stereo effect in almost any listening position.



- Dual HF Drivers for 'Baker Effect'
- 8" Pulp Cone LF Drivers
- Ferrofluid Cooled Soft Dome HF Drivers
- Auto Resetting Thermal Overload Protection
- 4 Terminal Spring Clip Input Connectors

Installation Speakers



- HF driver protection circuit
- Extensive mounting points
- High power output, low distortion sound quality
- Easy vertical or horizontal mounting
- M10 x 13 rigging points for easy installation



90 Series

Developed from the outstandingly successful 2180 series, the 90 series increases the choice of speakers available for this specialist application. The 90 series offers increased power handling and impressively high sound pressure levels from a range of compact boxes.

The transducers used in the 2090, 2190, 3190 & 4190 models are an 8 inch re-enforced pulp cone woofer and a 25mm titanium dome HF unit, which is Ferrofluid cooled.

All models have auto-resetting thermal overload protection of the HF transducer as standard to ensure reliability and all models deliver a frequency range of 40Hz to 20KHz. The powerful 8 inch woofer uses a high temperature 2 inch voice coil and a selected pulp cone whilst the 25mm titanium dome tweeter is loaded by a wide band horn; and is protected by a re-entrant thermal overload system.

The 2090, 2190, 3190 & 4190 cabinet exterior can be re-painted to match your venue interior and blend in with the environment. Whilst the units are of a strong and rugged nature, the weight is not unmanageable with the top, bottom and rear areas on all models clear for bracket mounting.

The 5090 and 5190 have a wide dispersion extra bass characteristic which is perfectly suitable for Karaoke applications. The 5090 & 5190 models are intended for wall mounting, though they can be stand mounted. They can also be flown using the fixing screws in the top. Both models are also available in a high quality piano finish (PU Version) for premium installation applications.



	2080	2180	3180	2090	2190	3190	4190	5090	5190
Frequency Response (+/-3dB)	40Hz-20kHz	40Hz-20kHz	40Hz-20kHz	40Hz-20kHz	40Hz-20kHz	40Hz-20kHz	35Hz-20kHz	40Hz-20kHz	35Hz-20kHz
Calculated Maximum SPL @1m	90dB	90dB	92dB	90dB	90dB	93dB	93dB	91dB	92dB
Low Frequency Transducer									
Size (mm / inches)	200mm / 8"	200mm / 8"	2 x 200mm / 8"	200mm / 8"	200mm / 8"	2 x 200mm / 8"	2 x 200mm / 8"	200mm / 8"	2 x 200mm / 8"
Voice Coil Size (mm / inches)	50mm / 2"	50mm / 2"	50mm / 2"	50mm / 2"	50mm / 2"	50mm / 2"	50mm / 2"	50mm / 2"	50mm / 2"
Coil Size (mm / inches)	25mm	2 x 25mm	2 x 25mm	25mm	2 x 25mm	2 x 25mm	2 x 25mm	2 x 25mm	2 x 25mm
Nominal Impedance	8Ω	8Ω	4Ω	8Ω	8Ω	4Ω	4Ω	4Ω	4Ω
Power									
System Continuous Power (w)	50w	50w	90w	100w	100w	175w	175w	175w	250w
System Programme Power (w)	100w	100w	175w	200w	200w	350w	350w	350w	500w
System Peak Power (w)	200w	200w	350w	400w	400w	700w	700w	700w	1000w
Dimensions - Unpacked (mm)									
Height	274mm	274mm	270mm	270mm	270mm	270mm	920mm	576mm	590mm
Width Front	456mm	456mm	570mm	445mm	445mm	445mm	270mm	368mm	353mm
Depth	200mm	200mm	290mm	220mm	250mm	315mm	255mm	295mm	310mm

XR Series

POWER, PERFORMANCE AND.....PRICE POINTS



Overcurrent, DC and Output Short Protection



Built-in Thermal Protection



Class AB & H Amplifier Design



Bridge Mode

NEW



WELCOME TO THE NEW XR SERIES

The new XR series consists of 5 models. The XR3500, XR3000, XR2500, XR1500 and XR800 which deliver 1,000, 700, 500, 330 and 200 watts per channel into 8Ω respectively.

All models feature XLR thru connectors, making cable management and daisy-chaining easy for installers or when used in flight cases. All models feature full circuitry protection for thermal, over current, DC, output short circuit along with power on/off muting. All models also feature ultra quiet variable speed fans.

Rear panel mode switches allow for selection between Parallel, Stereo and Bridge modes along with input sensitivity switching.

Large front air vents and steel construction aid heat dissipation to ensure the long life and reliable performance that comes with any Wharfedale Pro amplifier. Meanwhile, a huge toroidal transformer takes care of any AC power fluctuations.

XR amplifiers bring power and performance into a new price category.

OPERATING MODE SWITCHES

There are 3 different operating modes switchable for the XR series amplifiers.

STEREO - Each channel remains independent. The amplifier may be used for two different signals.

PARALLEL - This connects both inputs together. One signal feeds both channels. Each channel's Gain control and loudspeaker connection remain independent.

BRIDGE - This combines both channels into a single channel with twice the output power.

- An affordable series of robust power amps
- Perfect for installation, touring and all live sound applications
- Heavy duty toroidal transformers
- Input sensitivity switching
- Full circuit protection

Amplifiers



SPECIFICATIONS

Model Name	XR800	XR1500	XR2500	XR3000	XR3500
Stereo Power Output : RMS					
8Ω x 2	200w	330w	500w	700w	1000w
4Ω x 2	300w	450w	750w	1000w	1350w
Bridged Mono Power Output : RMS					
8Ω	600w	900w	1500w	2000w	2700w
Frequency Response(+/-10dB)	20Hz - 20kHz				
Topology	Class AB	Class H	Class H	Class H	Class H Level - 3
Inputs	2 x XLR				
Outputs	2 x NL4 (speakON compatible) 2 x XLR link	2 x NL4 (speakON compatible) 2 x XLR link	2 x NL4 (speakON compatible) 2 x XLR link	2 x NL4 (speakON compatible) 2 x XLR link	2 x NL4 (speakON compatible) 2 x XLR link
Input Sensitivity & impedance					
Sensitivity	0.775V or 1.4V				
Balanced XLR input Impedance	20KΩ	20KΩ	20KΩ	20KΩ	20KΩ
Maximum Input Level	22dBu (9.7Vrms)				
Voltage Gain	29dB	31dB	33dB	36dB	36dB
Slew Rate	>10V/us	>10V/us	>10V/us	>10V/us	>10V/us
Crosstalk	<-75dB	<-75dB	<-75dB	<-75dB	<-75dB
S/N	>100dB	>100dB	>100dB	>100dB	>100dB
Distortion (1W)	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
Damping Factor (8Ω), 10 Hz-400 Hz	>200	>200	>200	>200	>200
Dimensions	482 mm x 88 mm x 325 mm	482 mm x 88 mm x 325 mm	482 mm x 88 mm x 325 mm	482 mm x 88 mm x 325 mm	482 mm x 88 mm x 390 mm
Net Weight	12.0kg	13.3kg	14.0kg	14.1kg	18.0kg
Gross Weight	15.20kg	16.35kg	17.2kg	17.3kg	21.3kg

DP Series

LIGHT ON WEIGHT BUT VERY HEAVY ON.....POWER !



Suitable for professional live sound reinforcement or fixed installations, our DP series of digital amplifiers features 5 models that deliver between 595w and 3400w per channel into 4Ω. Four of these new models are 4 channel amplifiers which allow installers to create discrete and versatile systems.

All models feature an advanced switch mode power supply and super-efficient Class D topology which delivers high power with low distortion.

The DP series are incredibly light in weight. Starting from only 8.14kg, installers and performers will really appreciate the ease this brings to transportation.

PROTECTION

A full suite of protection circuitry includes thermal, over-current, DC, short circuit protect and power on/off mute. This level of protection ensures long term system reliability and peace of mind should the worst ever happen.

The variable speed fans keep the amplifier rack quiet when not in use - and cool while its running at high volume.

- Super light weight
- 4 * 4 channel models
- 1 * Stereo model generating 6800w@8Ω BTL.
- Ultra-quiet variable speed fans
- Advanced protection circuitry
- Class D topology
- Only 1U

QUALITY COMPONENTS

Using Neutrik audio connectors and the highest quality internal fans, the DP series are not only light weight but extremely high quality.

Reliability of any amplifier is essential and DP series have been specifically developed to deliver high power outputs in extreme professional conditions.



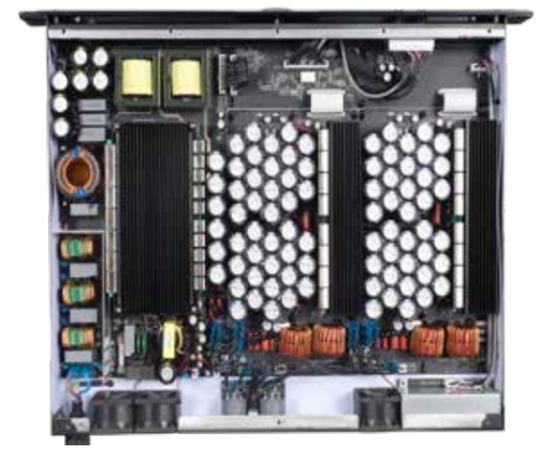
MODES AND SWITCHES

The DP Series feature stereo, bridge and mono modes. Use in bridge mode with an individual high-powered subwoofer or use a single multi-channel DP to power your whole sound system equally.

Mono mode saves external cabling by splitting a single input to feed two channels of the amplifier.

Gains can be controlled by the rear panel gain switch. This allows for installation into almost any rig or venue.

The DP Series features XLR inputs with a maximum input level of +22dBu allowing for integration with any typical professional audio system.



	DP-4035	DP-4065	DP-4100	DP-4120	DP-2200
Power Output					
Stereo Power Output 8Ω	4 * 350w	4 * 650w	4 * 1000w	4 * 1200w	2 * 2000w
4Ω	4 * 595w	4 * 1100w	4 * 1700w	4 * 2040w	2 * 3400w
Bridged Mono Output 16Ω	2 * 700w	2 * 1300w	2 * 2000w	2 * 2400w	1 * 4000w
8Ω	2 * 1190w	2 * 2200w	2 * 3400w	2 * 4080w	1 * 6800w
Input Sensitivity & impedance					
Sensitivity	1Vrms/32dB/26dB	38/35/32/29dB	38/35/32/29dB	41/38/35/32dB	41/38/35/32dB
Balanced XLR input	20KΩ	20KΩ	20KΩ	20KΩ	20KΩ
Maximum Input Level	22dBu (9.7Vrms)	22dBu (9.7Vrms)	22dBu (9.7Vrms)	22dBu (9.7Vrms)	22dBu (9.7Vrms)
Voltage Gain	35dB	38dB	38dB	41dB	41dB
Slew Rate	>50V / μs	>50V / μs	>50V / μs	>50V / μs	>50V / μs
Crosstalk	<-70dB	<-90dB	<-90dB	<-90dB	<-90dB
S/N	>105dB	>107dB	>109dB	>110dB	>112dB
Distortion (1W)	<0.05%	<0.02%	<0.02%	<0.02%	<0.02%
Frequency Response					
+/-1dB @ 8Ω	20Hz - 20kHz	20Hz - 20kHz	20Hz - 20kHz	20Hz - 20kHz	20Hz - 20kHz
+/-3dB @ 8Ω	20Hz - 30kHz	20Hz - 30kHz	20Hz - 30kHz	20Hz - 30kHz	20Hz - 30kHz
Damping Factor	>500	>5000	>5000	>5000	>5000
Topology	Class D			Class D	Class D
Connectors					
Signal Input	Female XLR jacks				
Power Output	speakON compatible				
Controls					
Front panel	AC Switch, CH and CH2 gain knobs				
Rear panel	Parallel, Stereo & Bridge mode switch, Limiter switch				
Protection	Thermal protect, Over-current protect, Output DC protect, Output short protect.				
Indicators	Power, Protect, Signal, Limiter				
Cooling	Variable speed fan				
AC Power	90 ~ 260VAC, 50 ~ 60Hz				
Dimensions	44 * 485 * 312mm	44 * 485 * 370mm	44 * 485 * 370mm	44 * 485 * 465mm	44 * 485 * 370mm
Weight (Net)	8.14kg	9.18kg	9.16kg	12.3kg	9.28kg
Weight (Gross)	10.2kg	11.26kg	11.1kg	14.9kg	11.3kg

CPD Series

DRIVING EARTH SHAKING AUDIO FROM THE FRONT OF THE VENUE, ALL THE WAY TO THE BACK.



Overcurrent, DC and Output Short Protection



Built-in Thermal Protection



Class AB & H Amplifier Design



Bridge Mode



Lightweight



Built-in Limiter



TECHNOLOGY

Working in stereo, parallel or bridged modes CPD is built for a multitude of sound system formations. Class AB (CPD1000 / CPD1600) and Class H (CPD2600 / CPD3600 / CPD4800) topology has resulted in a dynamic, high headroom amp made for propelling your loudspeakers through thick and thin with complete clarity.

PROTECTION & DURABILITY

The CPD series is rife with technology that offers complete protection for your peace of mind. A built-in switchable limiter, allows over 8Vrms signal through without distortion. In addition, it is equipped with thermal, overcurrent, DC and output short protect features.

PRECISION CONTROL

Large rotary dials accurately adjust gain levels, and you will know when to do so from the clear and simple front panel. A 4 segment led formation displays shows vital power status, level, limit and protect information, keeping the sound engineer in the know.

RELIABLE YET AFFORDABLE

Maximum headroom audio fidelity and durability are of course vital, whilst additionally we pride ourselves on unbeatable value. The CPD series is manufactured under our strict quality assurance as are all Wharfedale Pro products, making an amp you can trust from price to performance.



CPD4800

OPERATING MODE SWITCHES

There are 3 different operating modes switchable for the CPD series amplifiers.

STEREO - Each channel remains independent. The amplifier may be used for two different signals.

PARALLEL - This connects both inputs together. One signal feeds both channels. Each channel's Gain control and loudspeaker connection remain independent.

BRIDGE - This combines both channels into a single channel with twice the output power.

- Class H topology (CPD2600 / CPD3600 / CPD4800)
- Class AB topology (CPD1000 / CPD1600)
- Suitable for mobile use, touring, rental and installation
- Stereo, Bridge and Parallel modes
- Switchable limiter
- Status and clip LEDs
- Thermal, overcurrent, DC & output short protect circuitry
- Continuously variable speed fans

EASY TO CLEAN

Amplifiers often work in hot and dusty environments and, over time, the fans of an amp can easily suck this dirt in. Dirty cooling fans reduce efficiency and lead to overheating.

Its for this reason that we made our hardworking CPD series really easy to clean. Simply unscrew the front grille, brush off the air filters, and put the grille back on.

Very cool!



MASSIVE TRANSFORMERS

CPD series are built around heavy-duty toroidal transformers.

These deliver smooth and consistent power into the amplifier circuits, resulting in stable and reliable audio output power.

SPECIFICATIONS

Model Name	CPD1000	CPD1600	CPD2600	CPD3600	CPD4800
Stereo Power Output : RMS					
8Ω x 2	230w	400w	650w	870w	1000w
4Ω x 2	350w	620w	1000w	1300w	1500w
Bridged Mono Power Output : RMS					
8Ω	700w	1200w	1940w	2590w	3000w
4Ω	1000w	1600w	2600w	3600w	4800w
Frequency Response	20Hz - 30kHz	20Hz - 30kHz	20Hz - 30kHz	20Hz - 30kHz	20Hz - 30kHz
Topology	Class AB	Class AB	Class H	Class H	Class H
Inputs	2 x XLR	2 x XLR	2 x XLR	2 x XLR	2 x XLR
Outputs	2 x NL4 2 x XLR	2 x NL4 2 x XLR	2 x NL4 2 x XLR	2 x NL4 2 x XLR	2 x NL4, 2 x binding posts, 2 x XLR
Input Sensitivity & impedance					
Sensitivity	0dBu (0.775Vrms)	0dBu (0.775Vrms)	0dBu (0.775Vrms)	0dBu (0.775Vrms)	0dBu (0.775Vrms)
Balanced XLR input	20KΩ	20KΩ	20KΩ	20KΩ	20KΩ
Maximum Input Level	22dBu (9.7Vrms)	22dBu (9.7Vrms)	22dBu (9.7Vrms)	22dBu (9.7Vrms)	22dBu (9.7Vrms)
Voltage Gain	35dB	37dB	39dB	41dB	42dB
Slew Rate	>40V / us	>40V / us	>40V / us	>40V / us	>40V / us
Crosstalk	<-70dB	<-70dB	<-70dB	<-70dB	<-75dB
S/N	>100dB	>100dB	>100dB	>100dB	>100dB
Distortion (1W)	<0.02%	<0.02%	<0.02%	<0.02%	<0.02%
Damping Factor	>300	>300	>300	>300	>300
Controls					
Front panel	AC Switch, CH 1 and CH 2 Gain Knobs				
Rear panel	Parallel, Stereo & Bridge Mode Switch; Limiter Switch				
Protections	Thermal protect, Over-current protect, Output DC protect, Output short protect, Power on/off mute				
Indicators	Power, Protect, Signal, Peak				
Cooling	Variable Speed Fan				
Dimensions	88 x 483 x 330mm	88 x 483 x 330mm	88 x 483 x 450mm	88 x 483 x 450mm	88 x 483 x 450mm
Net Weight	11kg / 24.25lbs	13kg / 28.66lbs	19 kg / 41.88lbs	22kg / 48.50lbs	23.5kg / 51.80lbs
Gross Weight	12.5kg / 27.55lbs	14.5kg / 31.96lbs	22.5kg / 49.60lbs	25.5kg / 56.22lbs	27kg / 59.52lbs

MP Series

WITH HUGE TORIODAL TRANSFORMERS MP AMPS GO ALL THE WAY DOWN TO 2Ω

- 
 Built-in Thermal Protection
- 
 Low impedance compatibility
- 
 Overcurrent, DC and Output Short Protection
- 
 Built To Last
- 
 High Quality Torroid Transformers



Suitable for portable sound reinforcement or fixed installations, our MP models deliver up to 2800w into a 4Ω load in a rugged 3U, 19" rack mount enclosure. Their advanced transformer power supplies deliver high power with low distortion.

MP series also happily operate with 2Ω loads, making them ideal to drive multi-speaker rigs.

A full suite of protection includes thermal, over-current, DC, short circuit protect and power on/off mute. The MP Series features XLR inputs and linked outputs with a maximum input level of +22dBu allowing integration with any typical professional audio system. The variable speed fans keep the amplifier rack quiet when not in use.

OPERATING MODE SWITCHES

There are 2 different operating modes switchable for the MP series amplifiers.

STEREO

Each channel remains independent. The amplifier may be used for two different signals.

BRIDGE

This combines both channels into a single channel with twice the output power.



- MP2800: 950W x 2 @ 4Ω (RMS), 640W x 2 @ 8Ω (RMS), 2800W @ 4Ω (BTL)
- MP1800: 600 x 2 @ 4Ω (RMS), 300W x 2 @ 8Ω (RMS), 1800W @ 4Ω (BTL)
- Massive toroidal transformers
- 2 channels XLR inputs with link outputs
- 3 x NL4 (speakON compatible) outputs
- 2 operation modes (Stereo and Bridge)
- Power, Protect, Bridge and Peak indicators
- Thermal, over current, DC and output short protect.
- Power on/off mute
- Ultra quiet variable speed fans
- 3U rack mount chassis
- Operate down to 2Ω to drive multiple loudspeakers



SPECIFICATIONS

Model Name	MP1800	MP2800
Stereo Power Output		
8Ω x 2	300W	640W
4Ω x 2	600W	950W
2Ω x 2	900W	1300W
Bridged Mono Power Output		
8Ω	1200W	1900W
4Ω	1800W	2800W
Frequency Response	5Hz - 30kHz	5Hz - 30kHz
Topology	Class AB	Class H
Inputs	2 x XLR, 2 x 6.3mm Jack	
Outputs	3 x NL4 (speakON compatible)	
Input Sensitivity & impedance		
Sensitivity	+0dBu (0.775Vrms)	+0dBu (0.775Vrms)
Balanced XLR input	20KΩ	20KΩ
Maximum Input Level	22dBu (9.7Vrms)	22dBu (9.7Vrms)
Slew Rate	>30V / us	>40V / us
Crosstalk	<-70dB	<-70dB
S/N	>100dB	>100dB
Distortion (1W)	<0.05%	<0.015%
Damping Factor	>300	>300
Controls		
Front panel	AC Switch, CH A and CH B Gain Knobs	
Rear panel	Stereo & Bridge Mode Switch	
Protections	Thermal protect, Over-current protect, Output DC protect, Output short protect, Power on/off mute	
Indicators	Power, Protect, Bridge, Peak	
Cooling	Variable Speed Fan	
Dimensions	132 x 494 x 464mm	132 x 494 x 464mm
Net Weight	23.5kg / 51.80lbs	25kg / 55lbs
Gross Weight	25kg / 55.11lbs	27.5kg / 61lbs

M16 Digital Mixer

TAKING BACK CONTROL



- 16 inputs (12 x XLR / 4 x combi-jack)
- 8 assignable balanced outputs
- 10.1" touch screen | 1280 x 800 resolution
- Expansion bay for optional interfacing
- 8 internal DSP processors
- 9 x 100mm motorised faders
- WiFi connectivity & control. Dongle included



M16 is a unique and innovative multi-function digital mixing console, with many advantages such as its small size, lightweight construction, high quality audio path, user friendly interface and a 'class leading' premium touch sensitive 10.1" screen.

Using the 4th generation industrial floating-point SHARC processor and 24bit /192kHz AD/DA conversion, M16 delivers high quality audio with a responsive feel.

The custom layer, channel link and mute group modes make it ideal for live performances, conferences, schools, churches, cultural auditoriums, weddings, concerts, homes, bands, multi-purpose halls and other sound reinforcement systems.

The system also includes WiFi interfacing allowing the mixer to be controlled remotely with mobile devices. A rear panel expansion bay also allows for optional interface boards to be inserted. Currently these include Dante, AES/EBU and USB protocols.

The 9 x 100mm motorised faders make control simple and custom layers can be created to make M16 easy to use for the most inexperienced operator.

Versatile digital mixing for almost any audio application.



iPAD Remote Control

A free app for iPAD allows for full remote control and visual monitoring of the levels inside the M16.

- Monitor input and output levels on screen
- Store and load scenes
- Store and load libraries
- Edit parameters
- Edit custom layers
- Control the M16 using the iPad interface and storage

Perfect for walking around the venue while tuning monitors and FOH. Search for 'Wharfedale Pro' in the iPad app store.

Optional Expansion Boards

Connectivity is at the core of a mixer. To be able to connect to different external hardware and to be able to communicate using different protocols makes the M16 truly versatile. The following optional expansion boards are available...

USB
2 channels of digital input and output over USB.

AES / EBU
2 channels of input and output using the AES / EBU protocol.

DANTE
Connect 2 channels of IO to your DANTE network.



Connect Series

SLIM, SMALL FOOTPRINT USB MIXERS WHICH ARE AT HOME IN THE STUDIO AS MUCH AS THEY ARE ON THE ROAD.



- High quality microphone preamplifiers with switchable global +48V phantom power
- Balanced XLR Mic/Mono inputs with input gain control
- Stereo Channels with Balanced/Unbalanced 6.3mm jack inputs
- Pan/Balance controls for all channels
- Clip LED for all mono channels
- Separate Main Mix and Phones outputs with level controls
- Stereo 4 segment LED meters
- Stereo 6.3mm headphone outputs
- Full duplex 16 bit/48kHz USB interface, with destination switches

SPECIFICATIONS

Professional features such as Phantom power and balanced XLR microphone inputs give you full functionality and great sound in an ultra compact and cost effective package.

The Microphone pre-amplifiers use the same high quality components and construction methods that are employed in our flagship mixers.

All CONNECT mixers feature an intuitive, ergonomically designed user interface that is excellent for beginners and professionals alike. Comprehensive connectivity ensures that a CONNECT mixer will fit into any situation you need.



Model	Connect 502USB	Connect 802USB	Connect 1002FX/USB	Connect 1202FX/USB
Channels	5	6	10	12
Inputs	1 x XLR, 5 x 6.3mm jack	2 x XLR, 6 x 6.3mm jack	2 x XLR, 10 x 6.3mm jack	4 x XLR, 12 x 6.3mm jack
Outputs	2 x 6.3mm jack	2 x 6.3mm jack	4 x 6.3mm jack	4 x 6.3mm jack
Headphone Output	6.3mm jack	6.3mm jack	6.3mm jack	6.3mm jack
FX	-	-	56 FX Logic Acoustic Modelling FX:Room, Plate, Hall and Gated Reverb, Chorus, Flanger, Rotary Speaker, Delay	56 FX Logic Acoustic Modelling FX:Room, Plate, Hall and Gated Reverb, Chorus, Flanger, Rotary Speaker, Delay
EQ	2-Band	3-Band	3-Band	3-Band
Phantom Power	Yes	Yes	Yes	Yes
USB	16bit / 48kHz	16bit / 48kHz	16bit / 48kHz	16bit / 48kHz
Signal To Noise Ratio	>78dB ±5dB @ Max Gain	>78dB ±5dB @ Max Gain	>78dB ±5dB @ Max Gain	>78dB ±5dB @ Max Gain
Frequency Response	20Hz-20kHz ±2dB	20Hz-20kHz ±2dB	20Hz-20kHz ±1dB	20Hz-20kHz ±1dB
Display	Dual 4-Segment LED	Dual 4-Segment LED	Dual 4-Segment LED, FX Setting Display	Dual 4-Segment LED, FX Setting Display
Dimensions	50.9mm x 143mm x 183.8 mm	50.9mm x 208mm x 183.8 mm	293.9mm x 183.8mm x 52.8mm	360.2mm x 183.8mm x 52.8mm
Weight	0.64 kg / 1.62kg	0.92kg / 1.9kg	1.37kg / 2.86lbs	1.69kg / 3.3lbs



SL Series

STUDIO/LIVE MIXING CONSOLES WITH BUILT-IN FULL DUPLEX USB INTERFACING.



Designed to cater for a wide range of mid format mixing duties, the SL Series includes many features suited to both live sound and home studio applications.

A high quality class-compliant 2-input 2-output 16-bit/48kHz USB interface features on all models, with larger models featuring a flexible record bus and dedicated return channel that is great for live and home recording.

Studio grade microphone preamps are used throughout the range and have balanced XLR inputs. All channels also deliver balanced/unbalanced TRS line level connectivity. In addition, all of the mono channels on larger models have a TRS insert point.

An ultra musical 3-band EQ is available on all channels, with an additional high pass filter on the mono channels. The SL824 USB and SL1224 USB feature a built in FX processor with 16 presets, giving unlimited creative potential. The on-board FX is supplemented by a dedicated FX send and 2 auxiliaries.



Model	SL424USB	SL824USB	SL1224USB
Channels	8	12	14
Inputs	4 x XLR, 8 x 6.3mm jack	10 x XLR, 12 x 6.3mm jack	12 x XLR, 14 x 6.3mm jack
Outputs	2 x XLR, 2 x 6.3mm jack	2 x XLR, 2 x 6.3mm jack	2 x XLR, 2 x 6.3mm jack
Headphone Output	6.3mm jack	6.3mm jack	6.3mm jack
Auxiliary sends	1	2	2
FX	Send / Return	16x Effects: (1)Hall1 (2)Hall2 (3)Room1 (4)Room2 (5)Room3(6)Platereverb1 (7)Platereverb2 (8) Platereverb3 (9)Chorus(10)Flange (11)Delay1 (12) Delay2 (13)Chorus/Room1(14)Chorus/Room2 (15) Bypass (16)Rotaryspeaker	16x Effects: (1)Hall1 (2)Hall2 (3)Room1 (4)Room2 (5)Room3(6)Platereverb1 (7)Platereverb2 (8) Platereverb3 (9)Chorus(10)Flange (11)Delay1 (12) Delay2 (13)Chorus/Room1(14)Chorus/Room2 (15) Bypass (16)Rotaryspeaker
EQ	3 Band	3 Band with HPF	3 Band with HPF
Phantom Power	Yes	Yes	Yes
USB	16bit / 48kHz	16bit / 48kHz	16bit / 48kHz
Signal To Noise Ratio	-127dBu ±5dBu Mic Pre Equivalent Input Noise	-127dBu ±5dBu Mic Pre Equivalent Input Noise	-127dBu ±5dBu Mic Pre Equivalent Input Noise
Frequency Response	20Hz - 20kHz ±2dB	20Hz - 20kHz ±2dB	20Hz - 20kHz ±2dB
Display	4 Segment Level LED with power and Phantom Power indicator	12 Segment Level LED with power and Phantom Power indicator	12 Segment Level LED with power and Phantom Power indicator
Dimensions: (H x W x D)	76mm x 248mm x 262mm	80mm x 400mm x 369mm	80mm x 400mm x 475mm
Weight	2.7kg / 5.95lbs	5.2kg / 11.46lbs	6.85kg / 15.10lbs

INCLUDES RACK MOUNT KIT

FORCE 12

WITH PORTABILITY AND POWER, FORCE 12 IS OUR LOUDEST POWERED MIXER.



- 500W x 2@4Ω (RMS), 300W x 2@8Ω (RMS), 1300W x 2@4Ω (Peak)
- Class D amplification
- 12 channels (8 mono & 2 stereo, play & record)
- 8 Mic inputs with switchable global + 48V phantom power
- 3-band EQ control for each mono channel
- 2-band EQ control for each stereo channel
- Dual 7-band Graphic EQs with routing switch
- 10 channel peak LED indicators and 1 Effects peak LED indicator
- Dual 7-band Master Level LED indicators and 2 Limit LED indicators
- Mute button for all the Mic channels
- FX bypass button and FX Foot Switch to mute FX function
- 56 sorts of stereo effects with LED digital display
- Insert balanced/unbalanced 6.3mm jacks for the built-in stereo amplifiers
- 5 low level outputs (Main L/R, Mon Send, FX Send and Sub Out-80Hz LPF with 6.3mm jacks and Record Output with RCA jacks)
- Thermal protect, over current protect, DC protect, and output short protect
- NL4 (speakON compatible) outputs for speakers

SPECIFICATIONS



Model	FORCE 12
Channels	12
Inputs	8 x XLR, 10 x 6.3mm jack, 2 x RCA phono
Outputs	2 x NL4 (speakON compatible), 8 x 6.3mm jack, RCA
Power	4Ω: 550W RMS x 2 8Ω: 290W RMS x 2
Topology	Class D (SMPS)
Channel EQ	3 Band (2 Band on stereo channels)
FX	56 FX inc Reverb, Chorus, Flanger, Rotary Speaker & Delay
Phantom Power	Yes
USB	16bit / 48kHz
Noise	<0.005% @ 20Hz-30kHz MIC/LINE mono
Graphic equalizer	Dual 7 Band EQ
Display	Power, limit, signal and status LEDs
Dimensions (H x W x D)	540 x 330 x 330mm
Net Weight	11kg / 24.25lbs

PMX Series

LIGHTWEIGHT, COMPACT AND PORTABLE POWERED MIXERS



Designed to be a perfect balance of portability and power the PMX Series are suitable for use in a wide range of portable sound applications. Everything you need to mix and amplify microphones and line level sources is included in one box, with an ergonomic carry handle to aid transportation. The one box concept speeds up your setup time and allows you to start your performance quicker than ever before.

- Lightweight Class-D Amplifier Modules
- USB input and output (PMX 710)
- High-Efficiency Switch-Mode Power Supplies
- Phantom Powered Balanced XLR Mic Inputs
- XLR, 6.3mm jack and RCA Inputs
- Peak Indicator for Each Channel
- Built-in Digital FX
- Clip LED display
- 7-Band Graphic EQ on Master Section
- 4 Segment LED Metering



Mixers

PMX 500 SYSTEM

The PMX 500 System comprises of a PMX 500 powered mixer, a pair of 2-way PTX-8 8" loudspeakers, a DM5.0s dynamic microphone and all the necessary cables to connect it all together.

- 1 * PMX 500 powered mixer
- 2 * Wharfedale Pro PTX-8 2-way loudspeakers
- 1 * Wharfedale Pro DM5.0s dynamic microphone
- 1 * 4.5m microphone cable & 2 speaker cables
- 300w peak



PMX 700 SYSTEM

Comprised of a PMX 700 powered mixer, a pair of 2-way PTX-12 12" loudspeakers, a DM5.0s dynamic microphone and, once again, all the necessary cables to connect it all together.

- 1 * PMX 700 powered mixer
- 2 * Wharfedale Pro PTX-12 2-way loudspeakers
- 1 * Wharfedale Pro DM5.0s dynamic microphone
- 1 * 4.5m microphone cable & 2 speaker cables
- 1000w peak



Model	PMX 500	PMX 700	PMX 710
Channels	5	7	7
Inputs	4 x XLR, 5 x 6.3mm jack, 2 x RCA Phono, USB	6 x XLR, 8 x 6.3mm jack, 2 x RCA Phono, USB	6 x XLR, 6 x 6.3mm jack, 2 x RCA Phono, USB
Outputs	2 x NL4 (speakON compatible) combi jack, 2 x RCA, 1 x 6.3mm jack	2 x NL4 (speakON compatible) combi jack, 2 x RCA, 3 x 6.3mm jack	2 x NL4 (speakON compatible) combi jack, 2 x RCA, 3 x 6.3mm jack
Power	150W RMS 4Ω	150W RMS x 2 4Ω	250W RMS x 2 4Ω
Topology	SMPS+ Class D	SMPS+ Class D	SMPS+ Class D
Channel EQ	2 Band	3 Band	3 Band
FX	16 Effects (Hall1; Hall2; Room1; Room2; Room3; Plate Reverb1; Plate Reverb2; Plate Reverb3; Chorus; Flange; Delay1; Delay2; Chorus/Room1; Chorus/Room2; Vocal Cancel; Rotary Speaker)	16 Effects (Hall1; Hall2; Room1; Room2; Room3; Plate Reverb1; Plate Reverb2; Plate Reverb3; Chorus; Flange; Delay1; Delay2; Chorus/Room1; Chorus/Room2; Vocal Cancel; Rotary Speaker)	16 Effects (Hall1; Hall2; Room1; Room2; Room3; Plate Reverb1; Plate Reverb2; Plate Reverb3; Chorus; Flange; Delay1; Delay2; Chorus/Room1; Chorus/Room2; Vocal Cancel; Rotary Speaker)
Phantom Power	Yes	Yes	Yes
USB	No	No	Yes
Noise	±15dB maximum	±15dB maximum	±15dB maximum
Graphic equalizer	7 band graphic EQ (60Hz, 120Hz, 480Hz, 1KHz, 4KHz, 8KHz, 16KHz) ±12dB gain	Dual 7 band graphic EQ (60Hz, 120Hz, 480Hz, 1KHz, 4KHz, 8KHz, 16KHz) ±12dB gain	Dual 7 band graphic EQ (60Hz, 120Hz, 480Hz, 1KHz, 4KHz, 8KHz, 16KHz) ±12dB gain
Display	Power, limit, signal and status LEDs	Power, limit, signal and status LEDs	Power, limit, signal and status LEDs
Dimensions (H x W x D)	392 x 261 x 243mm	392mm x 261mm x 243mm	392mm x 261mm x 243mm
Net Weight	4.65kg / 10.33lbs	5.45kg / 12lbs	5.7kg / 12.67lbs

Versadrive

CONTROL IS EVERYTHING.



Versadrive SC-24, SC-36 and SC-48

The Versadrive speaker management system offers all the digital signal processing and detailed control that a live sound engineer needs. Packaged into a neat 1U rack design, an intuitive and concise front panel with LCD screen enables engineers to make essential adjustments to the speaker configuration with accuracy.

Whether we like it or not, it's a reality that PA systems are complex. A lot of time is spent selecting the best loudspeaker and amplifier combinations, and systems can easily grow. Its therefore essential to maintain control to ensure the best quality sound throughout the rig.

Versadrive DSP Digital Matrix Processors puts that control at your fingertips (but can also be password protected to avoid giving up that control to inexperienced users!)

The new models are explained by their code numbers. SC-24 features 2 analog XLR inputs and 4 XLR analog outputs. SC-36 is a 3 in 6 out while the SC-48 delivers 4 in and 8 out.

All new models feature the same highest quality 24-bit 96kHz AD/DA convertors and the internal DSP is handled by a 40-bit processor. All models deliver granular control over all aspects of audio. From input and output phase adjustment, delay timing, compression, limiting, parametric EQ, and multiple choices of HP and LP filtering, it's easy to tweak the parameters until the system is perfectly balanced.

For even more control, the new Versadrives are supplied with editing and librarian software. This allows for onscreen editing of all parameters and for setups to be backed up securely along with any other installation and touring documents that the Engineer needs.

With USB, RS232 and RS485 connectivity, Versadrive can be integrated into any system. As the system grows, so can Versadrive, and up to 255 units can be cascaded.

Downloadable presets and documents

A comprehensive library of Versadrive presets and documents can be freely downloaded from www.wharfedalepro.com

These include meticulously created system setups for WLA series line arrays, FOCUS series and DELTA models. The presets make setting up any Wharfedale Pro system quick and easy and form the foundation of your system.

In addition, there are recommended system guide documents to help setup the perfect system.



SC-48



- 24-bit 96kHz AD/DA convertors
- 40-bit internal processing
- USB / RS232 and RS485 connectivity
- User friendly Password protected front panel operation

SPECIFICATIONS



Input Effects	Gain, Mute, Link, High-pass filter, Low-pass filter, Noise Gate, 8PEQ, 31 band graphic EQ, Phase, Delay
Output Effects	Crossover, 5PEQ, Gain, Mute, Compressor / Limiter, Phase, Delay, Link
Software	Included via CD or download. Full matrix input output control. Intuitive UI.
User Presets	20
Total units linkable	255 via RS485 and optional wireless router
Audio Inputs	
SC-24	2 x Balanced XLR
SC-36	3 x Balanced XLR
SC-48	4 x Balanced XLR
Audio Outputs	
SC-24	4 x Balanced XLR
SC-36	6 x Balanced XLR
SC-48	8 x Balanced XLR
USB	1 (PC Control)
Ethernet	1
RS232 Port	1
Frequency Response	20Hz - 20kHz
S/N Ratio	>115dB
Distortion (THD)	<0.005 at 1kHz (0dBu)
Max output level	+20dBu
Impedance	<500Ω
D/A Convertors	24-bit Sigma Delta
Sampling Rate	96kHz
Display	20 x 2 LCD Parameter / Function Display, 5-Segment Led Level Display
Dimensions	480mm x 50mm x 45mm
Weight	2.62kg

Model	SC-26
Frequency Response (±0.5dB)	20Hz - 20kHz
DSP	32 bit
A/D D/A Converter	24 bit / 96kHz
S/N Ratio	>110dB
Delay time range	0-1000ms
Filter Types	Linkwitz-Riley, Bessel, Butterworth up to 48dB/oct.
EQ	6-band parametric / low shelf / high shelf
Memory	30 save slots
Number of inputs	2
Number of outputs	6
Input connection	XLR
Output connection	XLR
PC connections	USB / 2 x RS485
Net Weight	3.6kg / 7.94lbs
Gross Weight	4.6kg / 10.14lbs
Product dimensions	44 x 482 x 190mm

DM Series mics

OUR TRIED-AND-TESTED RUGGED DYNAMIC MICROPHONES.



A collection of robust and great sounding dynamic mics made to cut through the mix for detailed live vocal performance. High SPL capabilities combined with a super cardioid pickup patterns means these microphone can produce high gain before feedback and a high signal to noise ratio.

SOLID BUILD

We mount the microphone capsule in one of our most durable solid cast metal alloy housings. A gold plated XLR connector ensures quality and durability previously unseen at this price point.

USE WITH LOUD SOUND SOURCES

High SPL capabilities and wide frequency responses also mean that DM series microphones can adapt themselves to particularly loud sound sources including guitar cabinets and drums for both live and studio environments alike. DM series mics are designed for real performers and sound engineers who love live, loud music. The capsule inside a DM series mic can withstand an extreme level SPL without distortion, keeping a clear sound for even the loudest of performers.

- Robust dynamic super cardioid microphones
- High SPL capabilities
- High performance capsules
- Low distortion
- Tailored for vocals
- Also suitable for drums, guitar cabs and other high SPL sound sources
- Rugged cast metal body
- Steel mesh grille
- Internal pop shield

ONE.....

DM5.0s

The classic single DM5.0s ships in a colour display box and is supplied with 1 x 3m XLR to XLR cable.

The supplied balanced cabling makes this ideal for connecting to audio mixers and amplifiers.



Microphones

TWO.....

3 PACK AVAILABLE TOO

The DM5.0s mic above is also available as a 3-pack. This includes a foam padded road-ready polypropylene carry case with 3 mic stand adapters.



THREE.....

DM5.0sj

The same classic DM5.0s mic but supplied with a 3m XLR to unbalanced 1/4" jack cable. Ideal for connecting to consumer amplification products.



FOUR.....

DM5.0Pro

When using a pro microphone on stage or in the studio, the Engineer must have control from the mixer desk. If a mic ON / OFF switch is changed without the Engineers knowledge, it can lead to big problems! The DM5.0Pro solves this problem. It has no switch. The DM5.0Pro is discrete on-stage and does not detract from the performance.

DM5.0Pro uses the same great sounding capsule from the DM5.0s. It also uses the same great road-ready construction as the DM5.0s but, without the potential confusion which can be caused by a switch.



.....CHECK!

DM-57

Using the same capsule and electronics as the classic DM5.0s, this new variant is something fresh. An all-new cosmetic design features a black body, yellow short throw switch and a silver pop shield.

A great sounding, all-round mic ideal for vocals, guitars, drums and brass. On stage or in the studio, DM-57 will deliver great sound and great 'fresh' looks for a lifetime.



Model	DM5.0s	DM5.0sj	DM5.0Pro	DM-57
Transducer type	Dynamic	Dynamic	Dynamic	Dynamic
Frequency Response	50Hz - 12kHz	50Hz - 12kHz	50Hz - 12kHz	50Hz - 12kHz
Polar Pattern	Super cardioid	Super cardioid	Super cardioid	Super cardioid
Output Impedance	600Ω	600Ω	600Ω	600Ω
Sensitivity	-52dB (0dB=1V/Pa)	-52dB (0dB=1V/Pa)	-52dB (0dB=1V/Pa)	-52dB (0dB=1V/Pa)
Off axis rejection	>20dB at 180°	>20dB at 180°	>20dB at 180°	>20dB at 180°
Maximum SPL	>135dB	>135dB	>135dB	>135dB
ON/OFF Switch	Yes - long throw	Yes - long throw	No	Yes - short throw
Switch colour	Red	Red	n/a	Yellow
Pop Shield colour	Black	Black	Black	Silver
Body colour	Grey	Grey	Grey	Black
Cable / Connector	3 pin gold plated male XLR	3 pin gold plated male XLR	3 pin gold plated male XLR	3 pin gold plated male XLR
Polarity	Pin 2 hot	Pin 2 hot	Pin 2 hot	Pin 2 hot
Housing	Solid cast metal alloy	Solid cast metal alloy	Solid cast metal alloy	Solid cast metal alloy
Supplied cable	XLR (f) -> XLR (m)	XLR (f) -> 6.3mm jack unbalanced	XLR (f) -> XLR (m)	XLR (f) -> XLR (m)
Weight	300g	300g	300g	300g

KMD-7 pack

A ONE STOP DRUM MICROPHONE PACKAGE GREAT FOR LIVE AND HOME STUDIO USE.



The KMD-7 pack consists of two KM3's, a KM4 and four KM5's.

These are Wharfedale Pro microphones specifically engineered for maximum coverage of a complete drum kit.

The mics are supplied in a durable plastic case with comprehensive foam padding to protect them from a lifetime on the road.



- Unidirectional polar responses
- Neodymium magnets (Except KM-3)
- Dent-resistant steel grilles
- Rugged cast Zinc alloy body
- Gold-plated XLR connector

SPECIFICATIONS



Model	KM-3 (2 included)	KM-4 (1 included)	KM-5 (4 included)
Transducer type	Condensor	Dynamic	Dynamic
Frequency Response	30Hz - 20kHz	30Hz - 12kHz	50Hz - 16kHz
Polar Pattern	Cardioid	Super cardioid	Super cardioid
Output Impedance	<1000Ω	250Ω	250Ω
Sensitivity	-46dB (0dB=1V/Pa)	-54dB (0dB=1V/Pa)	-54dB (0dB=1V/Pa)
Off axis rejection	>18dB at 180°	>20dB at 180°	>22dB at 180°
Maximum SPL	>120dB	>135dB	>130dB
ON/OFF Switch	Yes	Yes	Yes
Cable / Connector	3 pin gold plated male XLR	3 pin gold plated male XLR	3 pin gold plated male XLR
Polarity	Pin 2 hot	Pin 2 hot	Pin 2 hot
Housing	Zinc alloy	Zinc alloy	Zinc alloy
Dimensions	30mm x 154mm x 21mm	58.6mm x 77.8mm x 27mm	45.2mm x 61.3mm x 24mm
Weight	120g	240g	170g

WF-300

WIRELESS MICROPHONE SYSTEM

... WITH EQ!

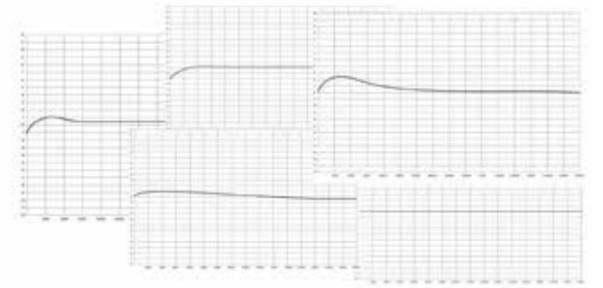


The new WF-300 Wireless Microphone system brings advanced digital signal transmission technologies together with the highest quality audio components to create a wireless mic system that is both simple to use and delivers great quality audio - over a long range!

- 5 x Internal EQ settings embedded inside mics
- Easy to change the EQ curve to suit the performer
- Long range - in excess of 100m line of sight
- Simple IR syncing
- Large LCD backlit displays
- Robust dynamic mics with gyroscopic automate / unmute.
- 600-690MHz and 863-865MHz models

EQ MODES

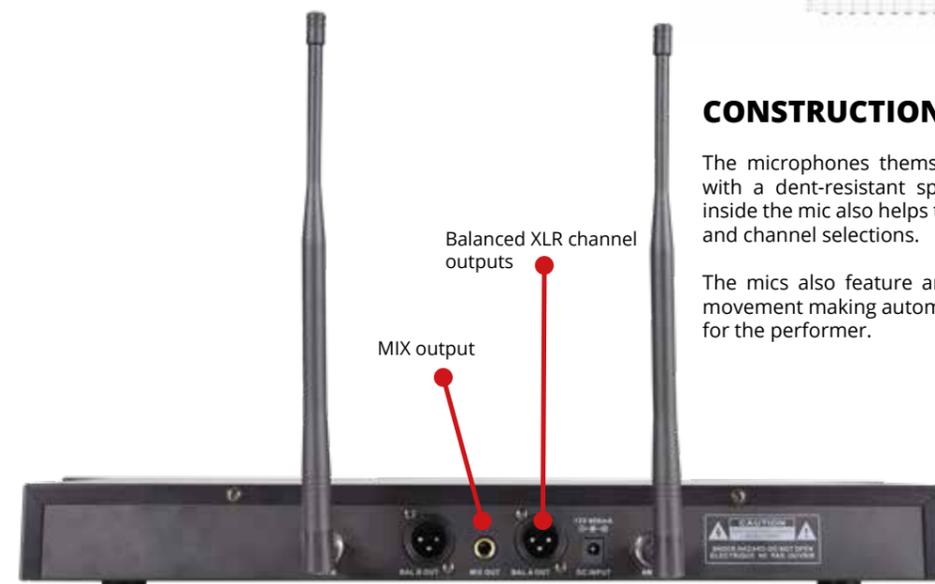
WF-300 features 5 specially tuned EQ settings embedded inside its microphones. These allow the user to adjust the EQ curve of the mics to suit the character of their voice. This makes using the WF-300 a pleasure and helps the performer feel 'comfortable' with their sound.



CONSTRUCTION

The microphones themselves are made from robust alloy with a dent-resistant spring-steel grille. The LCD display inside the mic also helps the user to monitor the battery level and channel selections.

The mics also feature an internal gyroscope which senses movement making automute/unmute a seamless experience for the performer.



AEROLINE VOCAL

Handheld UHF Wireless mic system

FOR THE VOICE

Made specifically for solo vocal performances, the Aeroline Vocal Wireless mic system delivers perfect vocal clarity over long distances, in a simple to use package.

A specially designed microphone capsule captures the detail and warmth of the voice, ensuring that the system gets the best possible quality audio input.

This signal is then transmitted to the 'small footprint' receiver with dual antennae using True Diversity technology. This results in a system which works over long distances without drop-outs.

Unique to products at this price point are the backlit LCD displays on both the mic and the receiver. This makes setup and control simple.

With its high quality capsule, superb long range performance and easy operation, Aeroline Vocal delivers everything the vocalist or presenter needs.



- Easy to setup with infrared syncing.
- True diversity system signal stability over long distances.
- Backlit LCD's on mic and receiver. Easy to see on-stage.
- High quality vocal microphone capsule design.
- Two versions available - 598-694MHz or 863-865MHz working frequency

Working frequency:	598-694MHz OR 863-865MHz
Modulation mode:	UHF
Channels:	324 @ 598-694MHz / 90 @ 863-865MHz
Operating distance:	about 80m (line of sight)
RF generator mode:	PLL Frequency Synthesizer
RF bandwidth:	96MHz
Audio frequency response:	50Hz-16KHz
SNR:	> 90dB (A weighted)
THD:	<0.5% / 1KHz (300mV output)
Transmitter	
Dynamic range:	> 90dB
Output Power:	10mW
Display:	LCD
Current consumption:	<180mA
Power supply:	2 x AA or AA rechargeable batteries
Transducer pickup head:	Moving coil
Pickup mode:	Super cardioid
Sensitivity:	<- 55dB ± 3dB (0dB = 1V / Par at 1KHz)
Maximum SPL:	> 105dB SPL
Receiver	
Sensitivity:	-95dBm
harmonic distortion:	<0.5% / 1KHz (300mV output)
Display:	LCD
Audio outputs	Balanced XLR plus 1/4" jack
Power supply	12v 500ma 6w

BRACKETS

FOR THE PERFECT INSTALLATION

WPB-1

The multiple rigging points on Titan 12, 15 and SI-X mean that the WPB-1 can be secured to the bottom of these loudspeakers. Steel construction and available in black or white finish.



WPB-2

The WPB-2 is equipped for a wide range of Wharfedale Pro speakers and will work with other PA speakers which use a 35mm speaker pole input. Steel construction and available in black or white finish.



WPB-3

Perfect for Titan 8 and Titan 8A MKII. The WPB-3 is attached to an appropriate mounting surface using any suitable combination of the 10 mounting points that are provided. The loudspeaker is then attached to the bracket using 4 threaded inserts. A WPB-3 provides secure and versatile mounting with control over both pan and tilt, 0° to 40° of downward tilt are available.

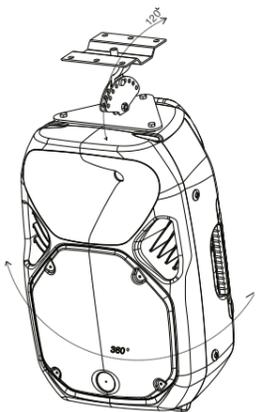


WPB-6

Ceiling bracket for all models of Titan 12. 360° rotation and 120° of adjustable angle.

Using the 3 top rigging points, this bracket has 360° rotation and 120° angle adjustment.

It has never been so quick and straightforward to install a Titan.



WPB-T8

Customised U-Bracket for the Titan 8 (active or passive). Optimised for close-to-wall installation. Steel construction and available in black or white finish.



WPB-T12

Customised U-Bracket for the Titan 12 (active or passive). Optimised for close-to-wall installation. Steel construction.



POLES & CONTROLS

HARDWEARING POLES FOR HARDWORKING RIGS

SP-1X

The SP-1X speaker poles are just over a metre in length and are constructed from steel.

SP-1X is 35mm in diameter at both ends.

It extends to 1340mm and supports up to 50kg.



SP-2X

The SP-2X speaker poles are just over a metre in length and are constructed from steel.

SP-2X is 35mm in diameter but uses an M20 at one end.

It supports up to 50kg and extends to 1340mm



SP-3

The SP-3 uses barometric air pressure to aid smooth and safe raising and lowering.

With an M20 thread on its base and a 35mm top, the SP-3 extends all the way to 1340mm.

SP-3 supports up to 50kg



SP-4

The SP-4 features a practical crank with folding handle.

With an M20 thread on its base and a 35mm top, the SP-4 extends to 1100mm.

SP-4 supports up to 60kg



WPR-26 MKII

The WPR-26 MKII makes switching between passive loudspeakers simple and tidy. 2 dual channel power amplifiers can be connected as sources and 6 pairs of passive loudspeakers can be connected as destinations. High power handling relays (1000W+) allow you to switch between sets of speakers without having to re-route signal cables.

A front panel display gives visual feedback from the WPR-26 MKII including which input is selected and which destination loudspeakers are active, there is also facility to mute all devices and use the left input channel only. The WPR-26 MKII is designed to allow only one active destination, to avoid overloading the source amplifier with low impedance loads.

An IR remote control allows a demonstrator or customer to easily switch between amps and speakers while in an optimal listening position. The IR receiver has a 6m long cable that enables the equipment rack to be kept away from the demonstration area.



BAGS

DURABLE PROTECTION FOR TRANSIT

Accessories

WLA-28 and WLA-210X Tourbags

Protect your WLA array system with the WLA-28 and WLA-210X tourbags.

Removeable panels and front grille allow the WLA element to be used even while in its protective padded covering. Ideal for rental and touring applications, these tourbags will keep your system safe and protected during its hardworking lifespan!

For WLA-28, WLA-210X and WLA-210XSUB.



Typhon 12 Tourbags

Made from durable nylon and with a thick inner padding, this tourbag allows 12" Typhons (Typhon-AX12 and Typhon-AX12-BT) to be used in extreme conditions - protecting the Typhon during transportation. The tour bag has been designed to give full access to the handles and the rear panel connectors and controls. A removable front cover allows the Typhon to be used while inside the tourbag.

Durable, accessible and printed with the iconic Wharfedale Pro logo, the Typhon 12" tourbag is attractive and practical.

Isoline 410 / 812 Tourbags

A hard-wearing durable Nylon fabric tourbag with 7mm internal padding to protect your PA system while on the road. The Isoline Tourbags feature carry-handle holes and elasticated edges for safe and secure transportation.

A convenient carry-pouch on the rear of the subwoofer tourbag is great place for accessory storage too.



Titan Tourbags (for Titan 8", 12" and 15" models)

Titan Tourbags add exceptional protection to Titan Active or Passive speakers, and to keep the same ergonomics and convenience, the bag has been designed with removable front covers, rear panels, side panels and speaker pole sections so you can move and install your speaker without ever having to take the tourbag off.

The front cover removes to show a unique mesh material, which adds additional protection and leaves the sound unfettered.

PSX112 and PSX115 Soft covers

Padded and branded, these protective soft covers for PSX112 and PSX115 will not only keep your new PSX active speaker protected from dust when its not being used but also provides protection during transportation.

Handy handle holes give easy access to all 3 of the handles of the PSX.





NEW PRODUCT INFORMATION

INTERNAL DISTRIBUTOR USE ONLY. SPECS & IMAGES SUBJECT TO CHANGE.

PSX Series Soft Covers

Protect your valuables

Even affordable active loudspeakers need protection from dust, damp and general road transportation damage.

Introducing the new soft covers for PSX112 and PSX115 - an attractive way to protect and to transport the new active loudspeakers from Wharfedale Pro.

With easy access to all 3 carry handles and a soft protective padding, the new soft covers are simple to put on and simple to remove - making setup and breakdown easy.



PSX112 Soft Cover



PSX115 Soft Cover



Clear logo branding



Easy access to
all 3 carry handles



Rear protection



Padded protection

WHEN ARE THEY AVAILABLE?

PSX112 / PSX115 Soft Covers

Orders
Shipment

NOVEMBER 2019
DECEMBER 2019

WHAT MAKES THEM GREAT?

- ✓ All-round protective covering
- ✓ Easy access to all handles
- ✓ Quick to fit
- ✓ Quick to remove
- ✓ The same padding as Titan & Typhon tourbags