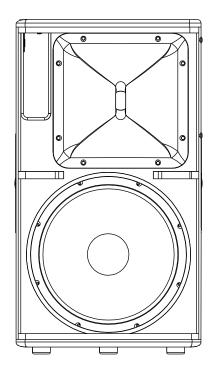
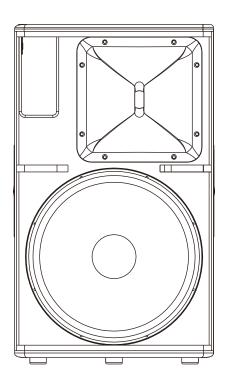
### WHARFEDALE PRO WLA SERIES USER MANUAL



# **WLA SERIES**

WLA-12MX WLA-15MX







#### **WLA SERIES LINE ARRAYS**

Around the world WLA series line arrays are used in demanding environments. Systems expand and customers demand larger rigs with more configuration flexibility. WLA series floor monitors are the perfect addition to a WLA rig.

Constructed of the finest 15 mm Russian birch plywood and using custom Wharfedale Pro drivers with high flux densities, they have the performance and construction quality for relentless touring and demanding on-stage abuse.

#### **IMPORTANT WARNINGS & SAFETY INSTRUCTIONS**

- 1. READ ALL INSTRUCTIONS Carefully and become familiar with the features and functions of these products before operating them.
- 2. RETAIN THESE INSTRUCTIONS For future reference.
- 3. COMPLY WITH ALL WARNINGS Non compliance may void warranty of the product.
- 4. USE WITH AMPLIFIERS In order to avoid damage to drivers and other equipment, it is advisable to establish and follow a routine for powering up and powering down a sound system. With all system components connected, turn on source equipment (mixers, signal processors, record and playback units etc.) BEFORE powering up amplifiers. Transient voltages from powering up source equipment can damage speakers if amplifiers are already turned on. Make sure that amplifier volumes are set to their minimum settings and power up any system amplifiers LAST. It is recommended that all system components be allowed to stabilize for few seconds before any source signals are introduced or level setting adjustments are made. Similarly, when shutting systems down, turn all amplifiers off first, before powering down any other system components.
- 5. CABLES Do not use shielded or microphone cables for connection between amplifiers and speakers. Use only approved speaker cables with proper connectors.
- 6. RIGGING SUSPENDING MOUNTING RIGGING Suspending and mounting of these speaker systems can expose members of the public to serious health risks and even death. Under no circumstances attempt to rig, suspend or otherwise mount these speakers unless you are fully qualified and certified to do so by relevant local, state and national authorities. All relevant safety regulations must be followed. If you are not properly qualified or do not know of pertinent regulations, consult qualified personnel for advice.
- 7. CAUTION These professional loudspeaker systems are capable of generating very high sound pressure levels. Use care with placement and operation to avoid exposure to excessive volume levels. Permanent hearing damage can result when operated to extreme levels.
- 8. SERVICE There are no user serviceable parts inside this product. Users should not attempt to service this product. Warranty nullification could result if this is attempted.

#### INTRODUCTION

Wharfedale Pro WLA-12MX and WLA-15MX loudspeakers are the result of many years of experience in the use, design and manufacture of professional loudspeaker products. We take great pride in engineering and building every Wharfedale Pro loudspeaker and would like to thank you for entrusting us with your sound solutions.

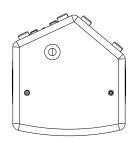
#### WLA-12MX/ WLA-15MX FEATURES

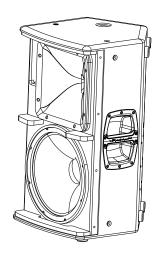
- ▶ 3.0" Neo HF compression drivers with high flux density.
- > Rotatable horns for horizontal or vertical applications.
- ➤ Multiple Neutrik NL4MP connectors on top, side and rear.
- > Aluminium ring in LF transducer to reduce harmonic distortion.
- ▶ 15 mm Russian birch plywood construction.
- > Rotatable HF horn.
- ➤ The horn of the WLA-12MX and WLA-15MX can be rotated. This rotation will provide either 60° horizontal and 90° vertical or 90° horizontal and 60° vertical.

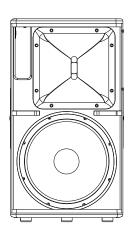
### **DIMENSIONS**

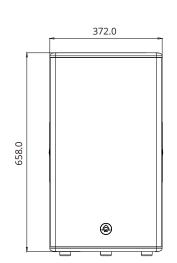
#### WLA-12MX

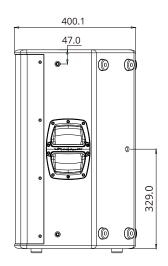
12" Two - Way Monitor Passive System



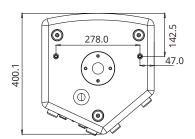








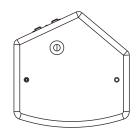


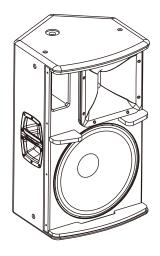


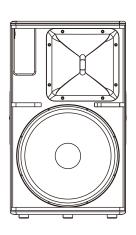
# **DIMENSIONS**

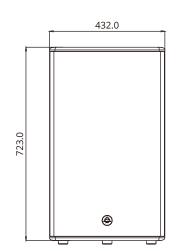
### WLA-15MX

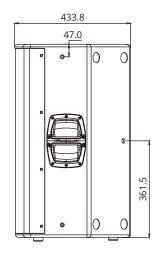
15" Two - Way Monitor Passive System

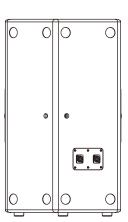


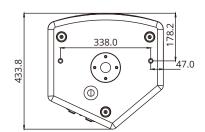








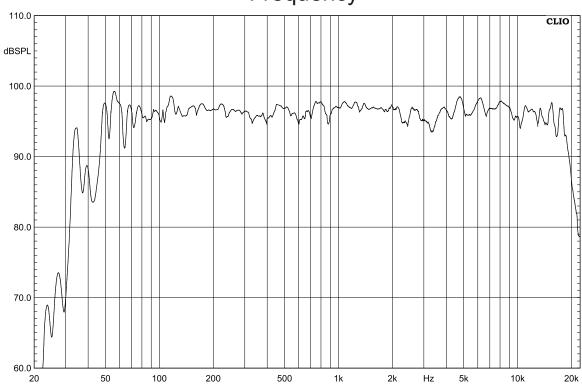




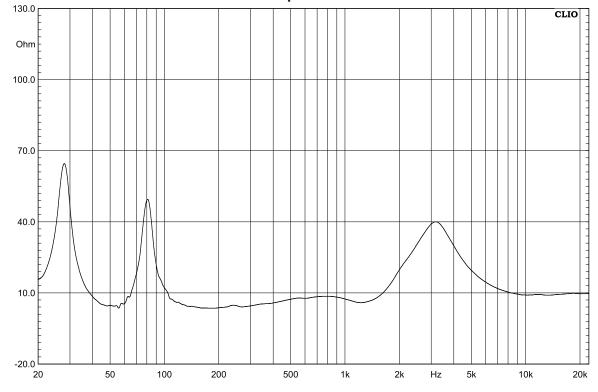
# Frequency / Impedance graphs

### WLA-12MX



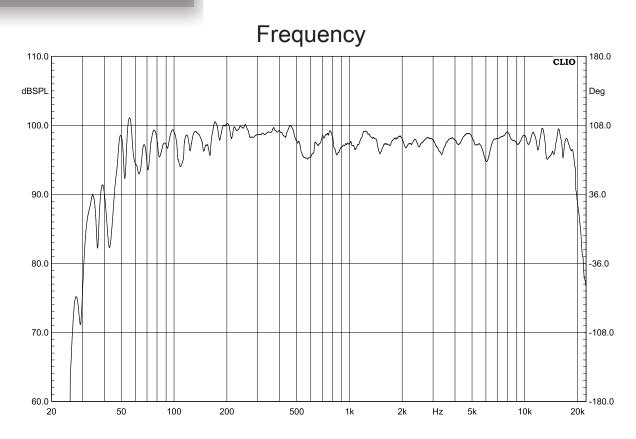


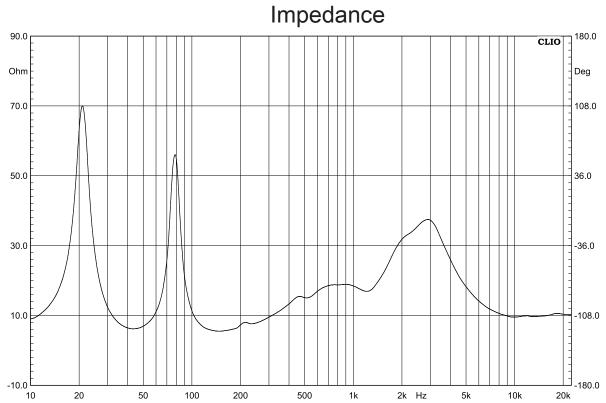
# Impedance



# Frequency / Impedance graphs

### WLA-15MX





# **SPECIFICATIONS**

System Type         Passive         Passive           Configuration         Two-way Monitor         two-way Monitor           Frequency Respose (+13 dB)         55.20 kHz         45.20 kHz           Farminy J. Sall S. V / I M         98 dB         99.5 dB           Sensivity J. Sall S. V / I M         98 dB         99.5 dB           System Rated Impedence         8 0         8 0           Low Frequency Transducer         III         W           LF Voice Coil Size (mm / inches)         75.2 mm / 3"         102 mm / 4"           LF Voice Coil Size (mm / inches)         76.2 mm / 3"         102 mm / 4"           LF Voice Coil Size (mm / inches)         76.2 mm / 3"         102 mm / 4"           LF Voice Coil Size (mm / inches)         80         80         80           LF Voice Coil Size (mm / inches)         90 W         200 W         700 W           LF Voice Coil Size (mm / inches)         500 W         700 W         700 W           LF Power rex. Size 2012         500 W         700 W         700 W           High Frequency Transducer         55.5 mm / 1.4"         35.5 mm / 1.4"         35.5 mm / 1.4"           HE Award (mm / inches)         55.5 mm / 1.4"         35.5 mm / 1.4"         35.5 mm / 1.4"           HE Ower (mm / inches)         <	Model Name	WLA-12MX	WLA-15MX
Frequency Response (+/3 dB)         55.2 0 KHz         45.20 KHz           Frequency Range (+ 10 dB)         50.20 KHz         40.20 KHz           Calculated Maximum SPL @1 M         131 dB         134 dB           System Rated Impedance         8.0         8.0           Low Frequency Transducer         Vereguency Transducer         Vereguency Transducer           LF Vicice Coll Size (mm / inches)         75.2 mm / 3*         102 mm / 4*           LF Magnet Material         ferrire         ferrire           LF Pame Material         8.0         8.0           LF Power PLASSE 2012         500 W         00 W           LF Power PLASSE 2012         500 W         00 mm / 10 mm / 10 mm           LF Power PLASSE 2012         500 W         00 mp ression Driver           LF Divide Type         Compression Driver         00 mp ression Driver           LF Size (mm / inches)         75 mm / 30*         75 mm / 30*         75 mm / 30*           Exit Size (mm / inches)         8.0         35.5 mm / 1.4*         80           LF Magnet Material         Tatanium         Titanium         Titanium           Rated Impedance         8.0         8.0         8.0           Diaphragm Material         74 mm / 20 mm         90 W         90 W	System Type	Passive	Passive
Frequency Ranger (-10 dB)         50.20 kHz         40-20 kHz           Sensitivity 2.83 V /1 M         98 dB         99.5 dB           Calculated Maximum SPL (#1 M)         131 dB         124 dB           System Rated Impedance         8.0         30           Low Frequency Transducer         US           LF Size (mm / Inches)         331 mm / 12"         300 mm / 15"           LF Vacies Call Size (mm / Inches)         76.2 mm / 3"         300 mm / 15"           LF Magnet Material         aluminium         aluminium           LF Magnet Material         8.0         8.0         300 w           LF Power PracEs2-2012         800 w         700 w         W           LF Power PracEs2-2012         500 w         700 w         W           LF Power PracEs2-2012         Compression Driver         Compression Driver           Coll Size (mm / Inches)         35.5 mm / 1.4"         35.5 mm / 1.4"         35.5 mm / 1.4"           HF Divor PracEs2-2012         90 W         90 w         90 w           Usback Size (mm / Inches)         8.0         8.0         90 w           Waveguide Type         500 w         90 w         90 w           Waveguide Type         500 w         90 w         90 w         60 w         60 w </td <td>Configuration</td> <td>Two-way Monitor</td> <td>Two-way Monitor</td>	Configuration	Two-way Monitor	Two-way Monitor
Sensitivity 2.83 V / 1 M         98 dB         99.5 dB           Calculated Maximum SFL@II M         131 dB         134 dB           System Rated Impedance         8 Ω         8 Ω           Low Frequency Transducer         Frequency Transducer         8 20         390 mm / 15"           LF Viace Coil Size (mm / inches)         351 mm / 12"         390 mm / 15"           LF Magnet Material         ferrite         ferrite         ferrite           LF Frame Material         abuminium         aluminium           Rated Impedance         8 Ω         8 Ω           LF Power re-RS22012         500 W         700 W           HF Driver Type         Compression Driver         Compression Driver           Goll Size (mm / inches)         75 mm / 30"         75 mm / 30"           Sold Size (mm / inches)         75 mm / 30"         75 mm / 30"         75 mm / 30"           Bid Size (mm / inches)         8 Ω         MGFeB         MGFeB           Bid Size (mm / inches)         80 G         MGFeB         MGFeB           Bid Magnet Material         Nafies         MGFeB         MGFeB           Bid Impedance         8 Ω         Q         Q           Sold (mm / inches)         90" x 60" (Rotable)         90" x 60" (Rotable)	Frequency Response (+/-3 dB)	55-20 KHz	45-20 KHz
Calculated Maximum SPL@1 MI         131 dB         134 dB           System Rated Impedance         8 Ω         8 Ω           Low Frequency Transducer         IIII           LF Size (mm / Inches)         31 mm / 12"         390 mm / 15"           LF Vicia Coil Size (mm / Inches)         76.2 mm / 3"         102 mm / 4"           LF Waise (mis (prem) / Inches)         76.2 mm / 3"         102 mm / 4"           LF Power Material         auminium         aluminium           LF Promer Material         8 Ω         8 Ω           LF Power rex.RS-2.2012         500 W         700 W           LF Power rex.RS-2.2012         500 W         700 W           For Size (mm / Inches)         75 mm / 3.0"         75 mm / 3.0"           Si Size (mm / Inches)         75 mm / 3.0"         75 mm / 3.0"           Si Size (mm / Inches)         35.5 mm / 1.4"         75 mm / 3.0"         70 mm / 3.0"           Si Size (mm / Inches)         35.5 mm / 1.4"         75 mm / 3.0"         70	Frequency Range (- 10 dB)	50-20 KHz	40-20 KHz
System Rated Impedance         8 Ω         8 Ω           Low Frequency Transducer         I           LF Voice Coil Size (mm / inches)         331 mm / 12°         390 mm / 15°           LF Voice Coil Size (mm / inches)         52 mm / 3°         102 mm / 4°           LF Magnet Material         aluminium         aluminium           Rated Impedance         8 Ω         8 Ω           LF Power rex8.22 012         500 W         700 W           High Frequency Transducer         U         Compression Driver           High Frequency Transducer         W         75 mm / 3.0°         75 mm / 3.0°           Buit Size (mm / inches)         75 mm / 3.0°         75 mm / 3.0°         75 mm / 3.0°           Buit Size (mm / inches)         75 mm / 3.0°         75 mm / 3.0°         75 mm / 3.0°           Buit Size (mm / inches)         8.0         N6°EB         M6°EB         M6°EB         M6°EB           Diaphragm Material         M6°EB         M6°EB </td <td>Sensitivity 2.83 V / 1 M</td> <td>98 dB</td> <td>99.5 dB</td>	Sensitivity 2.83 V / 1 M	98 dB	99.5 dB
Low Frequency Transducer         LF Size (mm / Inches)         33 mm / 12°         390 mm / 15°           LF Voice Coil Size (mm / Inches)         76.2 mm / 2°         102 mm / 4°           LF Magnet Material         errite         ferrite           LF Trame Marterial         aluminium         aluminium           Rated Impedance         8 Ω         8 Ω           LF Dever rex.RSS-2012         50 0W         70 0W           High Frequency Transducer         Winter Type         Compression Driver           Coll Size (mm / Inches)         75 mm / 30°         75 mm / 30°           Exit Size (mm / Inches)         35.5 mm / 1.4°         35.5 mm / 1.4°           HF Moder Material         M6FeB         Midree           18 Acted Impedance         8 Ω         30           18 HF Power rex.MSS-2012         90 W         90 W           Valveaguide Type         Square         50 W           Valveaguide Type         Square         50 W           Valveaguide Type         Square         50 W           Valveaguide Type         50 W         70 W           System Pool New (w)         50 W         70 W           System Pool New (w)         200 W         280 W           System Pool New (w)         35 mm         <	Calculated Maximum SPL @1 M	131 dB	134 dB
LF Voice Coll Size (mm / Inches)         331 mm / 12"         390 mm / 15"         102 mm / 4"           LF Voice Coll Size (mm / Inches)         762 mm / 3"         102 mm / 4"         102 mm / 4"           LF Magnet Material         aluminium         aluminium           LF Frame Material         8 Ω         30         30 mm / 100 mm           LF Power re-XES2-2012         500 W         700 W         TOWN           HE Driver Type         Compression Driver         Compression Driver         Compression Driver         75 mm / 3.0"         80 mm	System Rated Impedance	8 Ω	8 Ω
LF Voice Coil Size (mm / inches)         76.2 mm / 3"         102 mm / 4"           LF Magnet Material         ferrite         ferrite           LF Frame Material         aluminium         adminium           Rated Impedance         8 Ω         RC           LF Power rea/ESZ-2012         30 0 W         70 W           High Frequency Transducer         W         V           HF Driver Type         Compression Driver         Compression Driver           Coil Size (mm / inches)         75 mm / 3.0"         75 mm / 3.0"           Sti Size (mm / inches)         35.5 mm / 1.4"         35.5 mm / 1.4"           HF Magnet Material         NdFeB         MdFeB         MdFeB           Diaphragm Material         Titanium         Itanium         Itanium           Rated Impedance         8 Ω         8 Ω         9           Wareguide Type         50 W         90 W         30 Quare           Waveguide Type         50 W         90 V         50 W         50 W         50 W         50 W         60 (Rotatable)         90 W         50 W         60 (Rotatable)         90 W         60 (Rotatable) </td <td>Low Frequency Transducer</td> <td></td> <td></td>	Low Frequency Transducer		
LF Magnet Material         ferrite         ferrite           LF Frame Material         aluminium         aluminium           Rated Impedance         8 \( \text{\t	LF Size (mm / inches)	331 mm / 12"	390 mm / 15"
LF Frame Material         aluminium         aluminium           Rated Impedance         8 Ω         8 Ω           LF Power re EASE-2012         500 W         700 W           High Frequency Transducer         V           HET Driver Type         Compression Driver         Compression Driver           Coll Size (mm / inches)         75 mm / 3.0"         75 mm / 3.0"           Exit Size (mm / inches)         75 mm / 3.0"         35.5 mm / 1.4"           HF Magnet Material         Intanium         Intanium           Rated impedance         8 Ω         8 Ω           HF Power re: AESE-2012         90 W         90 W           Waveguider Type         square         square           Nominal Coverage (H x V)         90" x 60" (Rotatable)         90" x 60" (Rotatable)           Power         V         700 W           System Programme Power (w)         500 W         700 W           System Programme Power (w)         1000 W         2800 W           Input Connector         4 x NL4MP (speakON Compatible)         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         10 x NL4MP (speakON Compatible)           Rigging         by Son Sides         2 on Sides           Enclosure         5 mm (speak power)	LF Voice Coil Size (mm / inches)	76.2 mm / 3"	102 mm / 4"
Rated Impedance         8 Ω         8 Ω           LF Power rex.RSS.2:2012         500 W         700 W           High Frequency Transducer         W           HF Driver Type         Compression Driver         Compression Driver           Coil Size (mm / inches)         75 mm / 3.0"         75 mm / 3.0"           Sitt Size (mm / inches)         35 mm / 1.4"         35 mm / 1.4"           HF Magnet Material         NdFeB         NdFeB           Diaphragm Material         11 minum         Titanium           Rated Impedance         8 Ω         90 W           HF Power rex.RSS.2:2012         90 W         90 W           Waveguide Type         square         square           Nominal Coverage (H x V)         90 °x 60" (Rotatable)         90 °x 60" (Rotatable)           Power         V         You         You           System Power (w)         500 W         700 W         System Power (w)         200 W           System Peak Power (w)         2000 W         2800 W         Null PopeakON Compatible)           Rigging         M10 x 10         100 x 10         100 x 10           pole mount         35 mm         35 mm         35 mm           handles         2 on Sides         2 on Sides	LF Magnet Material	ferrite	ferrite
LF Power rexAS2.2012         500 W         700 W           High Frequency Transducer         FF           HF Driver Type         Compression Driver         Compression Driver           Coil Size (mm / inches)         75 mm / 3.0"         75 mm / 3.0"           Exit Size (mm / inches)         35.5 mm / 1.4"         35.5 mm / 1.4"           His Magnet Material         Midea         M61B           Diaphragm Material         Titanium         Titanium           Rated Impedance         8 Ω         8 Ω           HF Power rexAS2.2012         90 W         90 W           Waveguide Type         square         square           Nominal Coverage (H x V)         90 W         90 °× 60° (Rotatable)         90 °× 60° (Rotatable)           System Pogramme Power (w)         500 W         700 W         700 W           System Pogramme Power (w)         500 W         700 W         90 W           System Pogramme Power (w)         2000 W         2800 W         90 W           Input Connector         4 x NL4MP (speakON Compatible)	LF Frame Material	aluminium	aluminium
Hish Frequency Transducer         Compression Driver         Compression Driver           Coil Size (mm / inches)         75 mm / 3.0"         75 mm / 1.4"           Exit Size (mm / inches)         35.5 mm / 1.4"         35.5 mm / 1.4"           HF Magnet Material         NdFeB         NdFeB           Diaphragm Material         Titanium         Titanium           Rated Impedance         8 Ω         8 Ω           HF Power re:AES2-2012         90 W         90 W           Waveguide Type         square         square           Nominal Coverage (H xV)         90 W         50 W           System Continuous Power (w)         500 W         70 OW           System Power (w)         1000 W         1400 W           System Peak Power (w)         2000 W         2800 W           System Power (w)         2000 W         2800 W           Input Connector         4 x NL4MP (speakON Compatible)         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         10           pole mount         35 mm         35 mm           handles         2 on Sides         2 on Sides           Exclosure         Exclosure         15 mm plywood           Enclosure         50 kg ph         50 kg ph <tr< td=""><td>Rated Impedance</td><td>8 Ω</td><td>8 Ω</td></tr<>	Rated Impedance	8 Ω	8 Ω
HF Driver Type         Compression Driver         Compression Driver         Compression Driver           Coil Size (mm / Inches)         75 mm / 3.0"         75 mm / 3.0"           Stit Size (mm / Inches)         35.5 mm / 1.4"         35.5 mm / 1.4"           HF Magnet Material         NafeB         NafeB           Diaphragm Material         11 tranium         Titanium           Rated Impedance         8 Ω         8 Ω           HF Power rex-BS2-2012         90 W         90 W           Waveguide Type         square         square           Nominal Coverage (H x V)         90 °x 60° (Rotatable)         90 °x 60° (Rotatable)           Power         50 W         700 W           System Continuous Power (w)         500 W         700 W           System Programme Power (w)         1000 W         1400 W           System Peak Power (w)         2000 W         2800 W           Input Connector         4 x NL4MP (speakON Compatible)         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         10           pole mount         35 mm         35 mm           handles         20 x Sides         20 x Sides           Colore         50 x Sides         5 mm           Colore typics         50 x S	LF Power re:AES2-2012	500 W	700 W
Coll Size (mm / inches)         75 mm / 3.0"         75 mm / 3.0"           Exit Size (mm / inches)         35.5 mm / 1.4"         35.5 mm / 1.4"           HF Magnet Material         NdFeB         MdFeB           Diaphragm Material         Titanium         Titanium           Rated Impedance         8 Ω         8 Ω           HF Power rex.AES-2-2012         90 W         90 W           Waveguide Type         square         square           Nominal Coverage (H x V)         90° x 60° (Rotatable)         90° x 60° (Rotatable)           Power           System Continuous Power (w)         500 W         700 W           System Programme Power (w)         1000 W         1400 W           System Programme Power (w)         2000 W         1400 W           System Continuous Power (w)         2000 W         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         M0           Rigging         M10 x 10         M10 x 10           Rigging         M10 x 10         M10 x 10           pole mount         35 mm         35 mm           handles         polygon         polygon           Enclosure         Enclosure         polygon           Coloric Spitis Iss         <	High Frequency Transducer		
Exit Size (mm / Inches)         35.5 mm / 1.4"         35.5 mm / 1.4"           HF Magnet Material         NdFeB         NdFeB           Diaphragm Material         Titanium         Titanium           Rated Impedance         8 Ω         8 Ω           HF Power re:AES2-2012         90 W         90 W           Waveguide Type         square         square           Nominal Coverage (H x V)         90 °x 60° (Rotatable)         90 °x 60° (Rotatable)           Power         V         700 W           System Continuous Power (w)         500 W         700 W           System Pogramme Power (w)         1000 W         400 W           System Pogramme Power (w)         2000 W         2800 W           Input Connector         4 x NL4MP (speakON Compatible)         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         100 W           Input Connector         4 x NL4MP (speakON Compatible)         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         10 M 10 x 10           Rigging         M10 x 10         10 m 10 x 10           Rigging         Dolygon         2 on Sides           Enclosure         Enclosure Material and finish         15 mm plywood         15 mm plywood           Co	HF Driver Type	Compression Driver	Compression Driver
HF Magnet Material         NdFeB         NdFeB           Diaphragm Material         Titanium         Titanium           Rated Impedance         8 0         8 0           HF Power rex-ES2-2012         90 W         90W           Waveguide Type         square         square           Nominal Coverage (H x V)         90° x 60° (Rotatable)         90° x 60° (Rotatable)           Power           System Continuous Power (w)         500 W         700 W           System Programme Power (w)         1000 W         1400 W           System Peak Power (w)         2000 W         2800 W           Input Connector         4 x NL4MP (speakON Compatible)         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         10           pole mount         35 mm         35 mm           handles         2 on Sides         2 on Sides           Enclosure           Enclosure Material and finish         15 mm plywood         15 mm plywood           Colour Options         black paint         black paint           Grille Material & Finish         58 mm / 25.9°         723 mm / 28.5°           Width         372 mm / 14.6°         432 mm / 17.0°           Dienersions - Packed (mm / inches	Coil Size (mm / inches)	75 mm / 3.0"	75 mm / 3.0"
Diaphragm Material         Titanium         Titanium           Rated Impedance         8 Ω         8 Ω           HF Power re:AES2-2012         90 W         90 W           Waveguide Type         square         square           Nominal Coverage (H x V)         90° x 60° (Rotatable)         90° x 60° (Rotatable)           Power         500 W         700 W           System Continuous Power (w)         1000 W         1400 W           System Peak Power (w)         2000 W         2800 W           Input Connector         4 x NL4MP (speakON Compatible)         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         M10 x 10           Bundles         2 on Sides         35 mm           bandles         2 on Sides         2 on Sides           Enclosure         5 mm plywood         15 mm plywood         15 mm plywood           Enclosure Material and finish         15 mm plywood         15 mm plywood           Colour Options         black paint         black paint           Colour Options         black paint         42 mm / 12.0°           Umbal Material & Finish         50 mm / 25.9°         723 mm / 28.5°           Width         372 mm / 14.6°         432 mm / 17.0°           <	Exit Size (mm / inches)	35.5 mm / 1.4"	35.5 mm / 1.4"
Rated Impedance         8 Ω         8 Ω           HF Power rexES2-2012         90 W         90 W           Waveguide Type         square         square           Nominal Coverage (H x V)         90° x 60° (Rotatable)         90° x 60° (Rotatable)           Power         V           System Continuous Power (w)         500 W         700 W           System Programme Power (w)         1000 W         4400 W           System Peak Power (w)         2000 W         2800 W           Input Connector         4 x NL4MP (speakON Compatible)         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         10           pole mount         35 mm         35 mm         35 mm           handles         2 on Sides         2 on Sides         35 mm           Enclosure         Frechesitype         polygon         polygon           Enclosure Material and finish         15 mm plywood         15 mm plywood           Colour Options         black paint         31 mm plywood           Colour Options         5 teel         3 teel           Unimations - Unpacked (mm / inches):         4 teel         723 mm / 28.5°           Width         400.1 mm / 15.8°         37 mm / 14.6°         432 mm / 17.1°	HF Magnet Material	NdFeB	NdFeB
HF Power re:AES2-2012         90 W         90 W           Waveguide Type         square         square           Nominal Coverage (H x V)         90° x 60° (Rotatable)         90° x 60° (Rotatable)           Power         System Continuous Power (w)         500 W         700 W           System Programme Power (w)         1000 W         1400 W           System Peak Power (w)         2000 W         2800 W           Input Connector         4 x NL4MP (speakON Compatible)         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         100 x 10           pole mount         35 mm         35 mm           handles         2 on Sides         2 on Sides           Enclosure         Enclosure         50 mplywood           Colour Options         15 mm plywood         15 mm plywood           Grille Material & Finish         seel         seel           Dimensions - Unpacked (mm / inches):         420 mm / 12.0°         723 mm / 28.5°           Width         400 mm / 18.6°         432 mm / 17.0°         432 mm / 17.1°           Dimensions - Packed (mm / inches):         442 mm / 17.4°         432 mm / 17.1°           Width         420 mm / 18.5°         437 mm / 18.9°         440 mm / 18.9°           Diepth         400	Diaphragm Material	Titanium	Titanium
Waveguide Type         square         square           Nominal Coverage (H x V)         90° x 60° (Rotatable)         90° x 60° (Rotatable)           Power         V           System Continuous Power (w)         500 W         700 W           System Peak Power (w)         1000 W         1400 W           System Peak Power (w)         2000 W         2800 W           Input Connector         4 x NL4MP (speakON Compatible)         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         35 mm           pole mount         35 mm         35 mm           handles         2 on Sides         20 n Sides           Enclosure         2 on Sides         20 n Sides           Enclosure Material and finish         15 mm plywood         15 mm plywood           Colour Options         black paint         black paint           Grille Material & Finish         steel         steel           Dimensions - Unpacked (mm / inches):         723 mm / 28.5°         432 mm / 17.0°           Width         400.1 mm / 15.8"         432 mm / 17.0°           Depth         400.1 mm / 15.8"         434 mm / 17.1"           Dimensions - Packed (mm / inches):         440 mm / 18.9°         480 mm / 18.9°           Width         420 mm / 18	Rated Impedance	8 Ω	8 Ω
Nominal Coverage (H x V)         90° x 60° (Rotatable)         90° x 60° (Rotatable)           Power         Foundary         Foundary           System Continuous Power (w)         500 W         700 W           System Programme Power (w)         1000 W         1400 W           System Peak Power (w)         2000 W         2800 W           Input Connector         4 x NL4MP (speakON Compatible)         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         M10 x 10           pole mount         35 mm         35 mm           handles         2 on Sides         2 or Sides           Enclosure           cabinet type         polygon         15 mm plywood           Enclosure Material and finish         15 mm plywood         15 mm plywood           Colour Options         black paint         black paint           Grille Material & Finish         steel         steel           Dimensions - Unpacked (mm / inches):         723 mm / 28.5"           Width         372 mm / 14.6"         432 mm / 17.0"           Depth         400.1 mm / 15.8"         434 mm / 17.1"           Dimensions - Packed (mm / inches):         + 42 mm / 17.4"         480 mm / 18.9"           Width         420 mm / 18.5"         470 mm /	HF Power re:AES2-2012	90 W	90 W
Power           System Continuous Power (w)         500 W         700 W           System Programme Power (w)         1000 W         1400 W           System Peak Power (w)         2000 W         2800 W           Input Connector         4 x NL4MP (speakON Compatible)         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         M10 x 10           pole mount         35 mm         35 mm           handles         2 on Sides         2 on Sides           Enclosure         5 mm         90 ygon           Enclosure Material and finish         15 mm plywood         15 mm plywood           Colour Options         black paint         black paint           Grille Material & Finish         steel         steel           Dimensions - Unpacked (mm / inches):         723 mm / 28.5"         Width           Width         372 mm / 14.6"         432 mm / 17.0"         432 mm / 17.0"           Dimensions - Packed (mm / inches):         ## Height         480 mm / 18.9"         480 mm / 18.9"           Width         442 mm / 17.4"         480 mm / 18.9"         512 mm / 20.2"           Width         470 mm / 18.5"         512 mm / 20.2"         512 mm / 20.2"	Waveguide Type	square	square
System Continuous Power (w)         500 W         700 W           System Programme Power (w)         1000 W         1400 W           System Peak Power (w)         2000 W         2800 W           Input Connector         4 x NL4MP (speakON Compatible)         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         M10 x 10           pole mount         35 mm         35 mm           handles         2 on Sides         2 on Sides           Enclosure         50 mm         20 m Sides           Enclosure Material and finish         15 mm plywood         15 mm plywood           Colour Options         black paint         black paint           Grille Material & Finish         see         steel           Dimensions - Unpacked (mm / inches):         V           Height         658 mm / 25.9"         723 mm / 28.5"           Width         372 mm / 14.6"         432 mm / 17.0"           Depth         400.1 mm / 15.8"         811 mm / 31.9"           Width         442 mm / 17.4"         480 mm / 18.9"           Depth         470 mm / 18.5"         512 mm / 20.2"           Weight (kg / lbs)         25.5 kg / 56.1 lbs         31.86 kg / 69.96 lbs	Nominal Coverage (H x V)	90° x 60° (Rotatable)	90° x 60° (Rotatable)
System Programme Power (w)         1000 W         1400 W           System Peak Power (w)         2000 W         2800 W           Input Connector         4 x NL4MP (speakON Compatible)         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         M10 x 10           pole mount         35 mm         35 mm           handles         2 on Sides         2 on Sides           Enclosure         35 mm         35 mm           Eabilet type         polygon         polygon           Enclosure Material and finish         15 mm plywood         15 mm plywood           Colour Options         black paint         black paint           Grille Material & Finish         steel         steel           Dimensions - Unpacked (mm / inches):         45 mm / 25.9"         723 mm / 28.5"           Width         372 mm / 14.6"         432 mm / 17.0"           Depth         400.1 mm / 15.8"         434 mm / 17.1"           Dimensions - Packed (mm / inches):         746 mm / 29.4"         811 mm / 31.9"           Width         442 mm / 17.4"         480 mm / 18.9"           Depth         470 mm / 18.5"         512 mm / 20.2"           Weight         25.5 kg / 56.1 lbs         31.86 kg / 69.96 lbs	Power		
System Peak Power (w)         2000 W         2800 W           Input Connector         4 x NL4MP (speakON Compatible)         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         M10 x 10           pole mount         35 mm         35 mm           handles         2 on Sides         2 on Sides           Enclosure         To Sides         2 on Sides           Enclosure Waterial and finish         15 mm plywood         15 mm plywood           Colour Options         black paint         black paint           Grille Material & Finish         steel         steel           Dimensions - Unpacked (mm / inches):         ***         723 mm / 28.5"           Width         372 mm / 14.6"         432 mm / 17.0"           Depth         400.1 mm / 15.8"         434 mm / 17.1"           Dimensions - Packed (mm / inches):         ***         ***           Height         42 mm / 17.4"         480 mm / 18.9"           Width         442 mm / 17.4"         480 mm / 18.9"           Opeth         470 mm / 18.5"         512 mm / 20.2"           Weight         25.5 kg / 56.1 lbs         31.86 kg / 69.96 lbs	System Continuous Power (w)	500 W	700 W
Input Connector         4 x NL4MP (speakON Compatible)         4 x NL4MP (speakON Compatible)           Rigging         M10 x 10         M10 x 10           pole mount         35 mm         35 mm           handles         2 on Sides         2 on Sides           Enclosure         ************************************	System Programme Power (w)	1000 W	1400 W
Rigging       M10 x 10       M10 x 10         pole mount       35 mm       35 mm         handles       2 on Sides       2 on Sides         Enclosure       ************************************	System Peak Power (w)	2000 W	2800 W
pole mount       35 mm       35 mm         handles       2 on Sides       2 on Sides         Enclosure       Fenciosure       Verification of Sides         Enclosure Material and finish       15 mm plywood       15 mm plywood         Colour Options       black paint       black paint         Grille Material & Finish       steel       steel         Dimensions - Unpacked (mm / inches):       Verification of Sides       723 mm / 28.5"         Width       372 mm / 14.6"       432 mm / 17.0"         Depth       400.1 mm / 15.8"       434 mm / 17.1"         Dimensions - Packed (mm / inches):       Verification of Sides       811 mm / 31.9"         Width       442 mm / 17.4"       480 mm / 18.9"         Depth       470 mm / 18.5"       512 mm / 20.2"         Weight       Weight (kg / lbs)       31.86 kg / 69.96 lbs	Input Connector	4 x NL4MP (speakON Compatible)	4 x NL4MP (speakON Compatible)
handles       2 on Sides       2 on Sides         Enclosure       Fenciosure       Polygon       polygon         Enclosure Material and finish       15 mm plywood       15 mm plywood         Colour Options       black paint       black paint         Grille Material & Finish       steel       steel         Dimensions - Unpacked (mm / inches):       723 mm / 28.5"         Width       372 mm / 14.6"       432 mm / 17.0"         Depth       400.1 mm / 15.8"       434 mm / 17.1"         Dimensions - Packed (mm / inches):       ***         Height       746 mm / 29.4"       811 mm / 31.9"         Width       442 mm / 17.4"       480 mm / 18.9"         Depth       470 mm / 18.5"       512 mm / 20.2"         Weight         Net Weight (kg / lbs)       25.5 kg / 56.1 lbs       31.86 kg / 69.96 lbs	Rigging	M10 x 10	M10 x 10
Enclosure           cabinet type         polygon         polygon           Enclosure Material and finish         15 mm plywood         15 mm plywood           Colour Options         black paint         black paint           Grille Material & Finish         steel         steel           Dimensions - Unpacked (mm / inches):         723 mm / 28.5"           Width         372 mm / 14.6"         432 mm / 17.0"           Depth         400.1 mm / 15.8"         434 mm / 17.1"           Dimensions - Packed (mm / inches):         ***         ***           Height         746 mm / 29.4"         811 mm / 31.9"           Width         442 mm / 17.4"         480 mm / 18.9"           Depth         470 mm / 18.5"         512 mm / 20.2"           Weight         ***         ***           Net Weight (kg / lbs)         5.5 kg / 56.1 lbs         31.86 kg / 69.96 lbs	pole mount	35 mm	35 mm
cabinet type         polygon         polygon           Enclosure Material and finish         15 mm plywood         15 mm plywood           Colour Options         black paint         black paint           Grille Material & Finish         steel         steel           Dimensions - Unpacked (mm / inches):         ************************************	handles	2 on Sides	2 on Sides
Enclosure Material and finish       15 mm plywood       15 mm plywood         Colour Options       black paint       black paint         Grille Material & Finish       steel       steel         Dimensions - Unpacked (mm / inches):       723 mm / 28.5"         Width       372 mm / 14.6"       432 mm / 17.0"         Depth       400.1 mm / 15.8"       434 mm / 17.1"         Dimensions - Packed (mm / inches):       ***         Height       746 mm / 29.4"       811 mm / 31.9"         Width       442 mm / 17.4"       480 mm / 18.9"         Depth       470 mm / 18.5"       512 mm / 20.2"         Weight         Net Weight (kg / lbs)       25.5 kg / 56.1 lbs       31.86 kg / 69.96 lbs	Enclosure		
Colour Options       black paint       black paint         Grille Material & Finish       steel       steel         Dimensions - Unpacked (mm / inches):       723 mm / 28.5"         Height       658 mm / 25.9"       723 mm / 28.5"         Width       372 mm / 14.6"       432 mm / 17.0"         Depth       400.1 mm / 15.8"       434 mm / 17.1"         Dimensions - Packed (mm / inches):       **         Height       746 mm / 29.4"       811 mm / 31.9"         Width       442 mm / 17.4"       480 mm / 18.9"         Depth       470 mm / 18.5"       512 mm / 20.2"         Weight         Net Weight (kg / lbs)       25.5 kg / 56.1 lbs       31.86 kg / 69.96 lbs	cabinet type	polygon	polygon
Grille Material & Finish       steel       steel         Dimensions - Unpacked (mm / inches):       723 mm / 28.5"         Height       658 mm / 25.9"       723 mm / 28.5"         Width       372 mm / 14.6"       432 mm / 17.0"         Depth       400.1 mm / 15.8"       434 mm / 17.1"         Dimensions - Packed (mm / inches):       ***         Height       746 mm / 29.4"       811 mm / 31.9"         Width       442 mm / 17.4"       480 mm / 18.9"         Depth       470 mm / 18.5"       512 mm / 20.2"         Weight         Net Weight (kg / lbs)       25.5 kg / 56.1 lbs       31.86 kg / 69.96 lbs	Enclosure Material and finish	15 mm plywood	15 mm plywood
Dimensions - Unpacked (mm / inches):         Height       658 mm / 25.9"       723 mm / 28.5"         Width       372 mm / 14.6"       432 mm / 17.0"         Depth       400.1 mm / 15.8"       434 mm / 17.1"         Dimensions - Packed (mm / inches):       ***       ***         Height       746 mm / 29.4"       811 mm / 31.9"         Width       442 mm / 17.4"       480 mm / 18.9"         Depth       470 mm / 18.5"       512 mm / 20.2"         Weight       ***       ***         Net Weight (kg / lbs)       25.5 kg / 56.1 lbs       31.86 kg / 69.96 lbs	Colour Options	black paint	black paint
Height       658 mm / 25.9"       723 mm / 28.5"         Width       372 mm / 14.6"       432 mm / 17.0"         Depth       400.1 mm / 15.8"       434 mm / 17.1"         Dimensions - Packed (mm / inches):       ***         Height       746 mm / 29.4"       811 mm / 31.9"         Width       442 mm / 17.4"       480 mm / 18.9"         Depth       470 mm / 18.5"       512 mm / 20.2"         Weight         Net Weight (kg / lbs)       25.5 kg / 56.1 lbs       31.86 kg / 69.96 lbs	Grille Material & Finish	steel	steel
Width       372 mm / 14.6"       432 mm / 17.0"         Depth       400.1 mm / 15.8"       434 mm / 17.1"         Dimensions - Packed (mm / inches):       ***         Height       746 mm / 29.4"       811 mm / 31.9"         Width       442 mm / 17.4"       480 mm / 18.9"         Depth       470 mm / 18.5"       512 mm / 20.2"         Weight         Net Weight (kg / lbs)       25.5 kg / 56.1 lbs       31.86 kg / 69.96 lbs	Dimensions - Unpacked (mm / inches):		
Depth     400.1 mm / 15.8"     434 mm / 17.1"       Dimensions - Packed (mm / inches):     Fleight     746 mm / 29.4"     811 mm / 31.9"       Width     442 mm / 17.4"     480 mm / 18.9"       Depth     470 mm / 18.5"     512 mm / 20.2"       Weight       Net Weight (kg / lbs)     25.5 kg / 56.1 lbs     31.86 kg / 69.96 lbs	Height	658 mm / 25.9"	723 mm / 28.5"
Dimensions - Packed (mm / inches):         Height       746 mm / 29.4"       811 mm / 31.9"         Width       442 mm / 17.4"       480 mm / 18.9"         Depth       470 mm / 18.5"       512 mm / 20.2"         Weight         Net Weight (kg / lbs)       25.5 kg / 56.1 lbs       31.86 kg / 69.96 lbs	Width	372 mm / 14.6"	432 mm / 17.0"
Height     746 mm / 29.4"     811 mm / 31.9"       Width     442 mm / 17.4"     480 mm / 18.9"       Depth     470 mm / 18.5"     512 mm / 20.2"       Weight     Veight (kg / lbs)     25.5 kg / 56.1 lbs     31.86 kg / 69.96 lbs	Depth	400.1 mm / 15.8"	434 mm / 17.1"
Width       442 mm / 17.4"       480 mm / 18.9"         Depth       470 mm / 18.5"       512 mm / 20.2"         Weight         Net Weight (kg / lbs)       25.5 kg / 56.1 lbs       31.86 kg / 69.96 lbs	Dimensions - Packed (mm / inches):		
Depth     470 mm / 18.5"     512 mm / 20.2"       Weight     Net Weight (kg / lbs)     25.5 kg / 56.1 lbs     31.86 kg / 69.96 lbs	Height	746 mm / 29.4"	811 mm / 31.9"
Weight           Net Weight (kg / lbs)         25.5 kg / 56.1 lbs         31.86 kg / 69.96 lbs	Width	442 mm / 17.4"	480 mm / 18.9"
Net Weight (kg / lbs) 25.5 kg / 56.1 lbs 31.86 kg / 69.96 lbs	Depth	470 mm / 18.5"	512 mm / 20.2"
	Weight		
Gross Weight (kg / lbs) 27.82 kg / 61.2 lbs 34.7 kg / 76.34 lbs	Net Weight (kg / lbs)	25.5 kg / 56.1 lbs	31.86 kg / 69.96 lbs
	Gross Weight (kg / lbs)	27.82 kg / 61.2 lbs	34.7 kg / 76.34 lbs

### WHARFEDALE PRO LIMITED WARRANTY

Wharfedale Pro products are warranted of manufacturing or material defects for a period of one year from the original date of purchase. In the event of malfunction, contact your authorized Wharfedale Pro dealer or distributor for information.

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IAG House, 13/14 Glebe Road, Huntingdon, Cambridgeshire, PE29 7DL, UK www.wharfedalepro.com

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