

**Titan**<sup>TM</sup>

**S E R I E S**





"Lighten the load and work wonders with Wharfedale's new PA speaker system. With portability, ease of use and high quality as watchwords, you can't go far wrong with a pair!"



# Titan™

## S E R I E S

### Titan™ Series ---

### An Ideal Choice For Portable Sound Or Installation Applications

Wharfedale Pro Titan™ Series of passive and self-powered foreground/background music and sound reinforcement speakers is the ultimate in portability, performance and styling for music, speech, and a variety of sound reinforcement applications. Built around the best components, including a titanium compression driver and heavy-duty cast-frame woofer, Titan™ Series delivers the high level, even dispersion and sonic integrity usually associated with much more expensive speakers.

The Titan™ enclosure is created using state of the art, gas assist injection moulding technology, enabling us to mould thicker, hollow core enclosure walls, which are stronger, sonically superior and much lighter in weight than standard injection moulded enclosures. In addition, internal laminar flow ribs further increase the rigidity of the enclosure. This intelligent enclosure design, along with a custom Wharfedale Pro transducer is essential in the reproduction of punchy low end down to 45Hz.

Designed to perform in portable and fixed installation applications alike, the Titan™ Series, with an ultra-light-weight composite enclosure, offers a range of mounting options, the optional tripod floor stands, the optional wall mount, or even on its side as a floor monitor.

### Feature

- 2-way reflex systems
- 3 Passive and 3 Active models + 2 Powered Subs
- Low distortion, high power woofers
- HF compression drivers
- XLR output for connecting to another powered speaker
- RCA inputs for MP3, CD or other inputs
- 90° x 60° degree integral Elliptical Wave Guide for even high frequency dispersion
- Power On LED indicator in horn throat and back panel
- Active signal limiting system with LED indicator
- DTF™ Dynamic Thermal Filament HF driver protection
- Lightweight, high strength Polypropylene cabinet
- Integral 35mm (1-3/8") stand socket
- M6/M8 hanging points
- Accommodates OmniMount® 30.0 bracket (Titan™ 8) & 60.0 bracket (Titan™ 12 & 15)
- Built in, rubberized easy-grip handles for convenient transportation
- Available in grey, white or black

## Titan™ Series Front Panel Features

### High frequency driver and power on indicator

The high frequency driver is a custom designed titanium compression driver. For Active version, a circular blue power 'ON' indicator is embedded in the throat of the horn. There is an additional power 'ON' LED indicator on the rear panel.

### Elliptical Wave Guide™

Our unique EWG™ design is the result of intensive computer modeling of natural acoustic wave propagation. To provide more acoustically transparent high-frequency pattern control, hard edges, corners, and parallel surfaces were eliminated from the design while still enabling 90 x 60 degree high frequency coverage. The smoother, more "organic" shape of the EWG™ design reduces high frequency distortion and diffraction eliminating acoustic artifacts found in other horn design technologies. The result



Proprietary 90° x 60° Elliptical Wave Guide™ horn design.

is smoother frequency response, greater driver efficiency, and improved vocal and instrument reproduction.

### Ports

There are two ports on front of the Titan™ Series that are reflex tuned to provide enhanced low frequency response from the enclosure.

### Transducers

The Titan™ Active Series features a custom designed, heavy-duty low frequency driver precisely matched to a high frequency Titanium compression driver with integral bi-amplification. Both drivers are designed for maximum output, wide dispersion and precise audio signal reproduction.



Moisture-proof low frequency driver for wherever you play.

## Enclosure Features

Using state of the art, gas assist injection moulding technology, plus an internal laminar flow rib pattern we have increased the enclosures rigidity and reduced its weight compared with standard injection moulded enclosures.

- Lightweight enclosure with rubberized transport handles for easy portability
- Rugged Polypropylene injection moulded cabinets with rubberized over-molded handles
- Trapezoidal shape allows for vertical arrays as well as horizontal stage monitor applications
- Protective metal grille
- Multiple M6/M8 hanging points including wall mount bracket inserts
- Power 'ON' LED indicators inside of the high frequency horn throat and on the back panel
- Standard 35mm integral speaker stand socket and bottom mounted bracket inserts





# Titan<sup>TM</sup> 8 ACTIVE MK II

New features and improved amplifier technology make the Titan 8A MKII an even better solution for portable sound and fixed installation applications.

The 2 band EQ from the Titan 12D and 15D now features in the more compact 8A MKII model allowing fine tuning of the overall sound. In addition a rear mounted horn LED defeat switch has been added to switch off the throat mounted power LED, for use in situations where visual transparency is paramount.

Class D technology is now used for both the LF and HF sections, resulting in a more efficient and powerful system that is now even lighter than the previous generation. The Titan 8A MKII is bi-amplified with independent LF and HF signal limiting.

The Titan 8A MKII provides enough output and low frequency extension to be a standalone vocal PA for A/V and presentation work, or combined with a subwoofer for a portable band or DJ setup.

The compact and stylish form factor, range of compatible Wharfedale Pro WPB brackets and versatile rigging points make the Titan 8A MKII an equally suitable choice for an installed background music or paging solution. As with the previous generation the Titan 8A MKII is available in black, grey or white. The angled cabinet also makes the Titan 8A MKII a fantastic compact vocal foldback monitor.

## Feature

- 2-way bi-amplified
- Class D LF and HF power amplifiers
- Independent LF and HF signal limiting
- Thermal, DC and short circuit fault protection
- Hi / Low EQ controls
- Combo XLR / ¼" jack balanced line level input and output
- Rear panel mic / line switch
- Rear panel horn LED defeat switch
- Eight M6 threaded inserts for flown applications
- Wall mount bracket options available separately (WPB-T8 & WPB-3)
- Available in black, grey or white



# Titan™ I2D & I5D

All Titan D models are bi-amplified, new Class D technology is used to create a more efficient and powerful system that is now even lighter than the previous generation.

With the Titan D Wharfedale Pro introduce Qubit™, our new powerful and precise 28/56-bit 192kHz DSP processing. 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. Protection is offered in the form of true independent adaptive LF and HF signal limiting that helps protect against thermal damage and driver over excursion.

Qubit has an extended frequency response that goes way beyond the capabilities of our hearing, providing an extended phase response that remains linear throughout our natural hearing range. Titan D exhibits perfectly aligned time-domain characteristics, enabling exceptionally natural transient reproduction .

## Feature

- 2-way bi-amplified
- Qubit™ 28/56-bit 192kHz DSP processing
- Class D LF and HF power amplifiers (Class AB HF on I5D)
- Independent LF and HF signal limiting
- Thermal, DC and short circuit fault protection
- Hi / Low EQ controls
- Switchable 90Hz monitor filter
- BRO™ Adaptive Bass Response Optimiser
- Combo XLR / ¼" jack balanced line level input and output
- Rear panel mic / line switch
- Rear panel horn LED defeat switch
- Remote volume control (applied voltage controlled)
- Ten M8 threaded inserts for flown applications
- Wall mount bracket options available separately



# Titan™ PASSIVE

Compact and lightweight, Titan™ 8, Titan™ 12 and Titan™ 15 provide high output, punchy low end and extended high frequency response that is equally at home with music and speech. Compact, lightweight and affordable, the Titan™ Passive Series still packs professional drivers that deliver unmatched performance.

## Feature

- 2-way, passive speaker system
- Custom Heavy duty moisture-proof 8, 12" or 15" LF driver
- Proprietary 90 x 60 Elliptical Wave Guide Horn design
- High-end Titanium HF Compression Driver
- Tough Polypropylene molded cabinet with rubber padded handles
- Multiple M6/M8 rigging points and integral tripod stand adapter
- Rugged protective grille and top-stacking receptacles
- Trapezoid shape for arrays as well as stage monitor applications
- High-Frequency Driver Overload Protection
- Sophisticated Linkwitz-Riley 24dB/octave crossover design
- High-Frequency EQ switch (boost/flat) for long-throw applications (Only Titan 12)
- Both 1/4" and NL4 connectors provided
- Available in grey, white & black

"With great clarity at the top end, they allowed me to reinforce speech at a conference in a low-level, natural way, whilst maintaining intelligibility. But they are certainly capable of much more..."

*June 2008, Performing Musician*





# Titan™ Sub-A

## Titan™ Sub-A12 & Titan™ Sub-A15

The Titan™ Sub-A12 is powerful 12 inches 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-¼" "combo" connectors.

The Titan™ Sub-A15 is powerful 15 inches band pass active subwoofer. A built-in 400 watt (continuous) 600 watt (peak) amplifier conveniently accepts stereo or mono line level inputs via dual, balanced, XLR-¼" "combo" connectors as well as a unique single channel 4Ω speaker level input via a ¼" phone jack which allows for use with a standard sound reinforcement amplifier (when the internal amplifier is not used).

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

## Feature

### Titan™ Sub-A12

- 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 / ¼ " combo jack inputs
- Balanced line level output
- Preset limiter prevents signal clipping
- Integral pole mount adapter

### Titan™ Sub-A15

- 15" band pass active subwoofer
- Built-in 600 watt (peak), 400 watt (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's 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
- A speaker-level, 1/4" TS phone jack input is provided



# Titan™ 312A & 315A

The all new Titan Active Series offer the latest technologies and innovation in the Pro Audio industry. The Titan active speaker range promises to live by Wharfedale Pro's legendary status that is known the world over.

The all new Titan Active Series offer the latest technologies and innovation in the Pro Audio industry. The Titan active speaker range promises to live by Wharfedale Pro's legendary status that is known the world over.

The Titan 312A and Titan 315A in the Titan Active Series range are available now.

Titan Active Series models are 2-way bi-amplified, Class D technology is now used for the LF and HF, creating a more efficient and powerful system that is not only lighter than the previous generation but also offer low distortion and highly efficient performance. Additional features include LF and HF signal limiting and Hi/Low EQ Controls. The series also comes in wall mount bracket options, adding to its usefulness in large closed areas like concerts and theater.

Being self powered they are easy to use and install, yet do not compromise on any professional features. They are protected for thermal, DC and short circuit faults making them one of safest speakers in the market.

*April 2012, IAG Professional Division*

## Feature

- 2-way bi-amplified
- Class D LF and HF power amplifiers
- LF and HF signal limiting
- Thermal, DC and short circuit fault protection
- Bass/Treble EQ controls
- TRS Jack and male XLR balanced Line level or MIC level input
- Female XLR balanced output with unit gain buffered
- Rear panel LED
- Volume control
- Ten M8 threaded inserts for flown applications
- Wall mount bracket options available separately
- Grey gas-assist injection moulded enclosure



## Pole Mount Socket and Bracket Attachment

A top stacking feature is provided for multi-loudspeaker applications and the Titan™ Series can be used on its side as a stage monitor. The speaker stand receptacle features a locking screw to ensure stability and rubber-padded carry handles make the job of transporting the enclosure easier than ever.

## Mounting Socket and Bracket Attachment

The bottom of the Titan™ Series provides a convenient built in pole mount socket that is used for easy mounting on a standard 35mm diameter speaker stand pole. Cord wrap and cable anchor features are also moulded into the enclosure. M6/M8 threaded rigging points are provided for a variety of safe flying configurations with four of these inserts available, bottom-mounted, in an OmniMount® 30.0 bracket footprint (Titan™ 8) or in an OmniMount® 60.0 bracket footprint (Titan™ 12 & 15).

## Optional Accessories

Titan™ TOUR BAG – Ballistic nylon zippered carry bag protects your Titan™ and features a storage pocket for cables.



Optional travel bag



Designed to work as a floor monitor too



Trapezoid shape for arrays as well as stage monitor applications



Ultra-light weight for maximum portability



Rigging inserts for several hand-mount options



Optional wall-mount bracket for installation



Integral stand mount for optional stands



# Specifications

Model	Titan™ 8 ACTIVE MK II	Titan™ 12 D	Titan™ 15 D
System Type	Active 8" 2-way Bi-Amplified	Active 12" 2-way Bi-Amplified	Active 15" 2-way Bi-Amplified
Frequency Response (+/-3dB)	70-20kHz	55-20kHz	50-20kHz
Low Frequency Driver (mm/in.)	205mm / 8"	305mm / 12"	381mm / 15"
High Frequency Driver	Compression Driver	Titanium Compression Driver	Titanium Compression Driver
Exit Size (mm / inches)	30mm / 1.2"	25mm / 1"	25mm / 1"
Dispersion (H x V)	90° x 60°	90° x 60°	90° x 60°
Amplifiers			
Low Frequency (Class D)	Rated 150W continuous, 300W Peak	Rated 250W continuous, 500W Peak	Rated 350W continuous, 700W Peak
High Frequency (Class D)	Rated 30W continuous, 60W Peak	Rated 50W continuous, 100W Peak	Rated 70W continuous, 140W Peak (class A/B)
Electronic Crossover	24dB/octave Linkwitz-Riley	24dB/octave Linkwitz-Riley	24dB/octave Linkwitz-Riley
Crossover Frequency	2.4kHz	2.3kHz	1.8kHz
Equalization	High (±10dB) 10kHz Shelving Low (±10dB) 100Hz Shelving	High (±10dB) 10kHz Shelving Low (±5dB) 100Hz Shelving	High (±10dB) 10kHz Shelving Low (±10dB) 100Hz Shelving
Subsonic Filter	30Hz, Second-order filter	30Hz, Second-order filter	30Hz, Second-order filter
Amplifier Protection			
Power On	Power switch on / off mute	Power switch on / off mute	Power switch on / off mute
Thermal	Amplifier shutdown, auto reset	Amplifier shutdown, auto reset	Amplifier shutdown, auto reset
Low Line Voltage Shut Down	< 80VAC	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
DC Protection	Yes	Yes	Yes
Short Protection	Yes	Yes	Yes
Clip Limiter:	Turns on approx 150W output	Turns on approx 250W output	Turns on approx 350W output
Limiter Indicator	Red LED	Red LED	Red LED
Power IndicatorTitan	Green LED	Green LED	Green LED
Inputs			
Input A — type	Switchable balanced mic or line level input	Switchable balanced mic or line level input	Switchable balanced mic or line level input
Input Sensitivity	Mic: -47dBu (-49.2dBv or 3.4mVrms) Line: 0dBu (-2.2dBv or 0.775Vrms)	Mic: -40dBu (-42.2dBv or 7.75mVrms) Line: 0dBu (-2.2dBv or 0.775Vrms)	Mic: -40dBu (-42.2dBv or 7.75mVrms) Line: 0dBu (-2.2dBv or 0.775Vrms)
Maximum Input Level	+22dBu	+22dBu	+22dBu
Input Connector	XLR - 1/4" Combo jack	XLR - 1/4" Combo jack	XLR - 1/4" Combo jack
Input Impedance	Balanced: 20kΩ - Unbalanced: 10kΩ	SBalanced: 10kΩ - Unbalanced: 5kΩ	Balanced: 10kΩ - Unbalanced: 5kΩ
Maximum Input Level	+22dBu	+22dBu	+22dBu
Input B — type	N/A	Line level input	Line level input
Input Sensitivity	N/A	XLR - 1/4" Combo jack: 0dBu (-2.2dBv or 0.775Vrms) RCA: 0dBu (-2.2dBv or 0.775Vrms)	XLR - 1/4" Combo jack: 0dBu (-2.2dBv or 0.775Vrms) RCA: 0dBu (-2.2dBv or 0.775Vrms)

Model	Titan™ 8 ACTIVE MK II	Titan™ 12 D	Titan™ 15 D
Input Connectors	Combo jack: 1/4" - XLR	Combo jack:1/4"- XLR /Summeddual RCA jacks	Combo jack:1/4"- XLR /Summeddual RCA jacks
Line Output	Switchable LOOP / MIX Balanced Male XLR Connector	Switchable LOOP / MIX Balanced Male XLR	Switchable LOOP / MIX Balanced Male XLR
Impedance	Balanced: 1k ohm Unbalanced: 500 ohm	Balanced: 200 ohm Unbalanced: 100 ohm	Balanced: 200 ohm Unbalanced: 100 ohm
Sensitivity	0dBu (-2.2dBv or 0.775Vrms)	0dBu (-2.2dBv or 0.775Vrms)	0dBu (-2.2dBv or 0.775Vrms)
AC Power details			
Power Supply	High Efficiency Switching Mode Power Supply	High Efficiency Switching Mode Power Supply	High Efficiency Switching Mode Power Supply
AC Power Options	AC100~240V, 50 / 60Hz	AC100~120V / 220~240V, 50 / 60Hz	AC100~120V / 220~240V, 50 / 60Hz
Power On Indicator	Green LED	Green LED	Green LED
Rigging / Bracket / Mounting Options	8 M6 threaded inserts including 4 M6 threaded	10 M8 threaded inserts including 4 M8 threaded	10 M8 threaded inserts including 4 M8 threaded
	inserts on bottom in OmniMount	inserts on bottom in OmniMount	inserts on bottom in OmniMount
	30.0-type footprint	60.0-type footprint	60.0-type footprint
	Pole-mount receptacle with lock screw 1 carry handles Optional wall-mount bracket	Pole-mount receptacle with lock screw 2 carry handles (one on each side) Optional wall-mount bracket	Pole-mount receptacle with lock screw 2 carry handles (one on each side) Optional wall-mount bracket
Enclosure Material	Injection Moulded Polypropylene	Injection Moulded Polypropylene	Injection Moulded Polypropylene
Colours	Grey or white or black	Black	Black
Dimensions H x W x D (mm)	396 x 266 x 221	556 x 384 x 312	708.3 x 477.8 x 401.8
Dimensions H x W x D (in)	15.6 x 10.5 x 8.7	21.9 x 15.1 x 12.3	27.9" x 18.8" x 15.8
NetWeight (kg / lbs)	6.25kg / 13.75lbs	12.4kg / 27.28lbs	22.9kg / 50.38lbs
GrossWeight (kg / lbs)	8.15kg / 17.93lbs	15.5kg / 34.lbs	27.7kg / 60.94lbs

# Specifications

Model	Titan™ 8 Passive	Titan™ 12 Passive	Titan™ 15 Passive
Loudspeaker Type	8" 2-way	12" 2-way	15" 2-way
Frequency Response (+/-3dB)	70 -20kHz	55 - 20kHz	50 - 20kHz
Low Frequency Driver (mm/in.)	96dB	98dB	97dB
Sensitivity (1W@1M)	124dB	128dB	129dB
HF Coverage (H x V)	90° x 60°	90° x 60°	90° x 60°
System Impedance	8 ohm	8 ohm	8 ohm
POWER (WATTS)			
Continuous	150W	250W	400W
Music	300W	500W	800W
Peak	600W	1000W	1600W
LF DRIVER Size	203mm/ 8"	305mm/ 12"	381mm/ 15"
Coil Size:	38.86mm / 1.53"	64.26mm / 2.5"	75mm / 3.0"
HF DRIVER / HORN	Compression Driver	Compression Driver	Compression Driver
Coil Size:	25mm/1"	44mm/1.75"	51mm/ 2.0"
Exit Size	30mm/1.2"	25mm/1"	25mm/1"
Diaphragm Material	Cloth	Titanium	Titanium
HF Driver Protection	Bulb	DTF™ Dynamic Thermal Filament	DTF™ Dynamic Thermal Filament
Long-Throw EQ Compensation	N/A	3dB boost (long-throw) / Flat (near-eld)	N/A
Horn Type	EWG™ - Elliptical Waveguide	EWG™ - Elliptical Waveguide	EWG™ - Elliptical Waveguide
Throat Size	25mm/1"	25mm/1"	25mm/1"
CROSSOVER Type/Frequency/Filter	2-way 2.4KHz / Linkwitz-Riley	Yes	2-way 1.8KHz / Linkwitz-Riley
ENCLOSURE			
Shape/Material	Trapezoidal/Polypropylene	Trapezoidal/Polypropylene	Trapezoidal/Polypropylene
Rigging	(8) M6 threaded rigging points + (4) M6 threaded rigging points on bottom in Omnimount™ 30.0-type footprint + Speaker pole-mount receptacle with lock screw + 1 built-in carry handle + Optional wall-mount bracket + (Optional dual-unit array speaker stand hardware)	(10) M8 threaded rigging points + (4) M8 threaded rigging points on bottom in Omnimount® 60.0-type footprint + Speaker pole-mount receptacle with lock screw + Optional wall-mount bracket + (Optional dual-unit array speaker stand hardware)	(10) M8 threaded rigging points + (4) M8 threaded rigging points on bottom in Omnimount® 60.0-type footprint + Speaker pole-mount receptacle with lock screw + Optional wall-mount bracket + (Optional dual unit array speaker stand hardware)
COLOURS	Grey or Black or White	Grey or Black or White	Grey or Black or White
OUTPUT CONNECTORS	2 x 1/4" jacks + 2 x NL4	2 x 1/4" jacks + 2 x NL4	2 x NL4
Weight(Net)	5.5kg / 12.1lbs	12kg / 26.4lbs	22kg / 48.4lbs
Dimensions (H x W x D)	396 x 266 x 221mm 15.59" x 10.47" x 8.7"	556 x 384 x 312mm 21.88" x 15.1" x 12.3"	708.3 x 477.8 x 401.77mm 27.9" x 18.8" x 15.8

Model	Titan™ Sub-A12	Titan™ Sub-A15
System Type	Reflex subwoofer	Band-pass subwoofer
Frequency Response (+/-3dB)	55-200Hz	45-150Hz
Enclosure Material	15mm MDF	18mm Plywood
Enclosure Colour	Grey or Black	Grey or Black
Frame material	Steel frame	Die-cast aluminium frame
Size (mm / inches)	305mm / 12"	404mm / 15"
Coil Size (mm / inches)	64.26 / 2.5"	75 / 3"
Impedance	4 ohm	4 ohm
Speaker Pole Adapter	Yes	Yes
Inputs A & B - Type / Connection	Balanced Line Level inputs via two combo connectors	Balanced Line Level inputs via two combo connectors
Output A & B - Type / Connection	Balanced Line Level inputs via two combo connectors	Balanced Line Level inputs via two combo connectors
Input Sensitivity	0.37V	0.56V
High Pass Frequency Selection	150Hz	100Hz
Phase Switch Selection	0° / 180°	0° / 180°
Crossover Frequency (Hz)	80/100/120/150/180/200 (adjustable)	150
Speaker Level Input Impedance	--	1/4" TS Phone input
Speaker Level Input Connection	--	4Ω
Amplifier Power: Continuous	250W	400W
Amplifier Power: Peak	500W	600W



Model	Titan™ Sub-A12	Titan™ Sub-A15
Power On Indicator	LED	LED
Power On Protection	Power switch on / off mute	Power switch on / off mute
Thermal Protection	Amplifier shutdown, auto reset	Amplifier shutdown, auto reset
Low Line Voltage Shut Down	60% Nominal line voltage	60% Nominal line voltage
Driver Protection	Independent LF limiters	Independent LF limiters
DC Protection	Yes	Yes
Short Protection	Yes	Yes
Clip Limiter	Turns on approx 250W output	Turns on approx 400W output
Limiter Indicator	Red LED	Red LED
Power Indicator	Blue LED	Blue LED
Dimensions H x W x D (mm)	360.0 x 493.0 x 431.0	630.0 x 478.0 x 640.0
Dimensions H x W x D (in)	14.2 x 19.4 x 16.9	24.8 x 18.8 x 25.2
Weight (Net) kg / lbs	22.31kg / 49.0lbs	45.48kg / 100.0lbs

Model	Titan™ 312A	Titan™ 315A
System Type	Active 12" 2-way Bi-Amplified system	Active 15" 2-way Bi-Amplified system
Frequency Response (+/-3dB)	55-20kHz	50-20kHz
LF Size (mm / inches)	305mm / 12"	381mm / 15"
Coil Size (mm / inches)	50.8mm / 2.0"	50.8mm / 2.0"
LF Impedance	4 Ω	4 Ω
HF 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
HF Impedance	8 Ω	8 Ω
High Frequency Coverage (H x V)	90° x 60°	90° x 60°
Low-Frequency Power Amplifier RMS (Class D)	150W	150W
High- Frequency Power Amplifier RMS (Class D)	250W	250W
High- Frequency Power Amplifier Peak (Class D)	50W	50W
Crossover Frequency	100W	100W
Equalization	HI PASS 2.5KHz, LOW PASS 2.5KHz	HI PASS 2.5KHz, LOW PASS 2.5KHz
Power On Protection	Power switch on / off mute	Power switch on / off mute
Thermal Protection	Amplifier shutdown, auto reset	Amplifier shutdown, auto reset
Low Line Voltage Shut Down	85% Nominal line voltage	85% Nominal line voltage
Driver Protection	YES	YES
DC Protection	YES	YES
Short Protection	YES	YES
Limiter Indicator	RED LED	RED LED
Power Indicator	GREEN LED	GREEN LED
Input Type	BALANCED	BALANCED
Input Sensitivity	0dBu for Line in, -40dBu for MIC in	0dBu for Line in, -40dBu for MIC in
Maximum Input Level	20dBu	20dBu
Input Connector	TRS JACK AND MALE XLR	TRS JACK AND MALE XLR
Input Impedance	22KΩ BALANCE AND 11KΩ UNBALANCE	22KΩ BALANCE AND 11KΩ UNBALANCE
Line Output	Balanced	Balanced
Line Output Connector	FEMALE XLR	FEMALE XLR
Impedance Balanced	50Ω BALANCE AND 100Ω UNBALANCE	50Ω BALANCE AND 100Ω UNBALANCE
Loop Gain	0dB	0dB
Power Supply	SMPS	SMPS
AC Power Options	AC100V-120V~ /220V-240V~,50/60Hz	AC100V-120V~ /220V-240V~,50/60Hz
Power On Indicator	Green LED	Green LED
Enclosure Material	Injection Moulded Polypropylene	Injection Moulded Polypropylene
Cabinet color	Grey	Grey
Dimensions (Unpacked)(mm)	556mmx384mmx312mm	708.3mmx477.8mmx401.8mm
Dimensions (Unpacked)(inch)	21.88"x 15.11"x12.28"	27.9"x18.8"x15.8"
Dimensions (Packed)(mm)	663mmx435mmx408mm	830mmx514mmx489mm
Dimensions (Packed)(inch)	26.1"x 17.1"x16.1"	32.7"x20.3"x 19.3"
Net Weight (kg / lbs)	10.8kg / 23.76lbs	17.9kg /39.38lbs
Gross Weight (kg / lbs)	13.9kg / 30.58lbs	22.6kg /49.72lbs

**CAUTION**  
WARNING: Do not touch the internal components of the device. The device is not to be used in the presence of flammable or explosive materials.

**WARNING**  
This product is not to be used in the presence of flammable or explosive materials. The device is not to be used in the presence of flammable or explosive materials.

Wharfedale Pro

Titan™ 120

Model Number  
WHARFEDALE120



CE

H2217  
2379



Control panel with various knobs, buttons, and ports. Labels include: VOLUME, BALANCE, INPUT, POWER, and AC INPUT. The panel also features a power switch and a power button.

