

POLE MOUNT SOCKET AND BRACKET ATTACHMENT

A top stacking feature is provided for multi-loudspeaker applications and the Titan™ 12 ACTIVE also 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.



Designed to work as a floor monitor too



Trapezoid shape for arrays as well as stage monitor applications



Ultra-light weight for maximum portability

ROUTING SOCKET AND BRACKET ATTACHMENT

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



Rigging inserts for several hand-mount options



Optional wall-mount bracket for installation



Integral stand mount for optional stands

OPTIONAL ACCESSORIES

TITAN™ TOUR BAG – Ballistic nylon zippered carry bag protects your Titan™ 12 ACTIVE and features a storage pocket for cables.



Optional travel bag

SPECIFICATION

Model Name	Titan™ 12 ACTIVE
System Type	Active 12" 2-way Bi-Amplified system
Frequency Response (+/-3dB)	55-20kHz
Low Frequency Transducer	
Size (mm / inches)	305mm / 12"
Coil Size (mm / inches)	64.26mm / 2.5"
Impedance	4 Ω
High Frequency Transducer	
Type	Compression Driver
Coil Size (mm / inches)	51mm / 2"
Exit Size (mm / inches)	25mm / 1"
Diaphragm Material	Titanium
Impedance	8 Ω
High Frequency Coverage (H x V)	90° x 60°
Amplifiers	
Low-Frequency Power Amplifier (Class D)	Rated 250W RMS, 500W Peak
High-Frequency Power Amplifier (Class A/B)	Rated 50W RMS, 100W Peak
Electronic Crossover:	
Crossover Frequency	24dB per octave Linkwitz-Riley 2.3kHz
Controls	
Equalization:	High (±10dB) 10kHz Shelving Low (±10dB) 100Hz Shelving +5dB at 60Hz
Bass Response Optimizer ("BRO"™) circuit	30Hz, Second-order filter
Subsonic Filter	
Amplifier Protection	
Power On Protection	Power switch on / off mute
Thermal Protection	Amplifier shutdown, auto reset
Low Line Voltage Shut Down	60% Nominal line voltage
Driver Protection	Independent LF and HF limiters
DC Protection	Yes
Short Protection	Yes
Clip Limiter:	Turns on approx 250W output
Limiter Indicator	Red LED
Inputs	
Input A – type	Switchable balanced mic or line level input
Input Sensitivity	Mic: -36dBu (-38.2dBv or 12.28mVrms) Line: +4dBu (1.78dBv or 1.228Vrms)
Maximum Input Level	+22dBu
Input Connector	XLR / 1/4" Combo jack
Input Impedance	Balanced: 20kΩ - Unbalanced: 10kΩ
Maximum Input Level	+22dBu
Input B - type	Line level input
Input Sensitivity	XLR / 1/4" Combo jack: 1.78dBv or 1.228Vrms RCA: 0dBu (-2.2dBv or 0.775Vrms)
Maximum Input Level	+22dBu
Input Connectors	Combo jack: 1/4" -XLR / Summed dual RCA jacks
Line Output	
Line Output Connector	Switchable LOOP / MIX Balanced Male XLR connector
Impedance	Balanced: 1k ohm - Unbalanced: 500 ohm
Sensitivity	+4dBu (1.78dBv or 1.228Vrms)
AC Power details	
Power Supply	High Efficiency Switching Mode Power Supply
AC Power Options	AC100~120V / 220~240V, 50 / 60Hz
Power On Indicator	LED
Rigging / Bracket / Mounting Options	
	10 M8 threaded inserts including 4 M8 threaded inserts on bottom in OmniMount 60.0-type footprint
	Pole-mount receptacle with lock screw
	2 carry handles (one on each side)
	Optional wall-mount bracket
Enclosure	
Enclosure Material	Injection Moulded Polypropylene
Colour	Grey or white
Dimensions (mm / inches):	
H	556mm / 21.88"
W (Front / Back)	384mm / 15.11"-180mm / 7.1"
D	312mm / 12.28"
Weight	
Net Weight (kg / lbs)	12.8kg / 28.16lbs
Gross Weight (kg / lbs)	14.8kg / 32.56lbs

Titan™ 12 Active

Wharfedale Pro has taken the power and reliability of our innovative Titan models and combined it with on board bi-amplification and an active crossover to make the brand new stunning TITAN™ 12 ACTIVE. Built with the same rugged, injection molded chassis as our Titan Passive series, these powerhouses are at home almost anywhere, band practice, on stage, in studios, at rehearsals, theaters, even houses of worship.

Built around the best components, including a titanium compression driver and heavy-duty cast-frame woofer, TITAN™ 12 ACTIVE delivers the high level, even dispersion and sonic integrity usually associated with much more expensive speakers. Designed to perform in portable and fixed installation applications alike, the TITAN™ 12 ACTIVE, 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.

KEY FEATURES

- 2-way, active bi-amplified speaker system
- Custom 12" Low Frequency driver and Titanium High Frequency compression driver provide exceptional clarity, high power handling capability and maximum efficiency
- State-of-the-art, high efficiency switch mode power supply with a class D low frequency power amplifier and a class A/B high frequency amplifier
- Low frequency power (Class D) 250W RMS, 500W PEAK
- High frequency power (Class A/B) 50W RMS, 100W PEAK
- Active signal limiting system with LED indicator on rear panel
- Built in 2 channel mixer with microphone and line level inputs Balanced XLR line output connections to subwoofers or daisy-chaining units together
- Switchable Bass Response Optimizer (BRO™) circuit
- Low distortion, high power handling, water resistant 12 inch woofer
- Professional high frequency compression driver with 2" titanium diaphragm
- XLR and TRS line inputs via convenient 'combo' jacks
- Two band master EQ controls
- Full Protection system: DC, overload, short circuit, thermal, On / Off mute and LF / HF Limiters

FRONT PANEL FEATURES

High frequency driver and power on indicator

The high frequency driver is a custom designed 2" titanium compression driver. 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).

Transducers

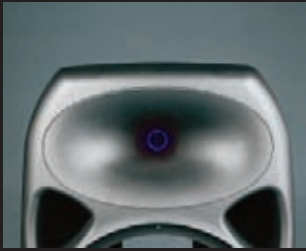
The Titan™ 12 ACTIVE features a custom designed, heavy-duty 12" low frequency driver precisely matched to a high frequency 2" Titanium compression driver with integral bi-amplification. Both drivers are designed for maximum output, wide dispersion and precise audio signal reproduction.



Moisture-proof low frequency driver for wherever you play

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



Proprietary 90° x 60° Elliptical WaveGuide™ horn design. Power on indicator in horn throat and on rear panel

Ports

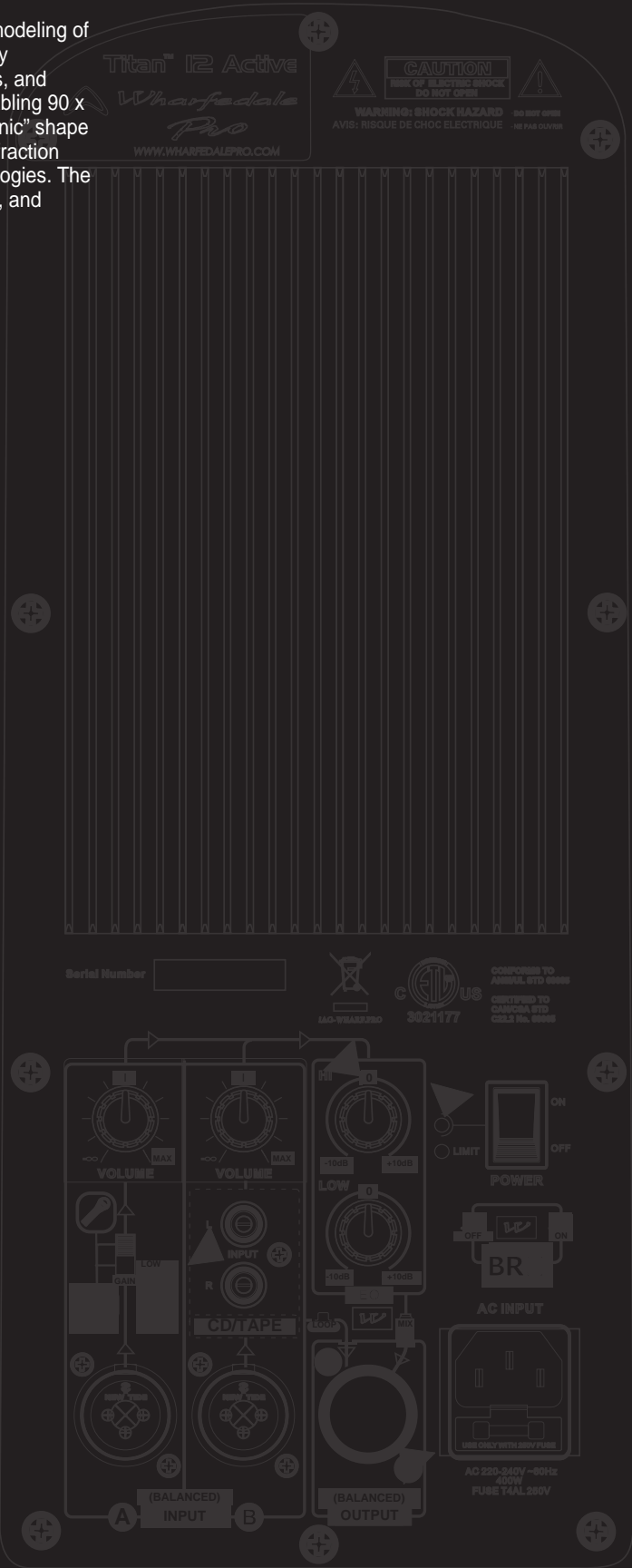
There are two ports on front of the Titan™ 12 ACTIVE that are reflex tuned to provide enhanced low frequency response from the enclosure.

APPLICATIONS:

Stage Monitoring, Mobile sound and Permanent sound installation

*Primary Target: Musician, Event Organizer, Club owner, Roadies

*Secondary Target: Clubs, Bars, and Concert Attendees, Pastor, Church Congregations, Facilities Manager, Building Contractor



ENCLOSURE FEATURES:

- 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
- Ten multiple M8 rigging 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™ 12 ACTIVE DESCRIPTIONS

Amplifier

The Titan™ 12 ACTIVE features a state-of-the-art Class D low frequency amplifier design. Class D amplifiers are known for their extended efficiency, low heat dissipation and light weight compared to other amplifier classifications. Class D technology allows for unparalleled audio quality in a light-weight, powered speaker system. High frequency power is provided by a high quality, low distortion and highly efficient Class A/B amplifier.

Mixer and Controls

The Titan™ 12 ACTIVE provides basic mixing functions with a variety of input options. Two inputs with separate level controls and a common equalization section allow for overall balance and tonal characteristic control. Easy interfacing to external mixers and processors means easy expansion to larger, more sophisticated systems.

Bass Response Optimizer

Designed for flexibility and ease of use, the Titan™ 12 ACTIVE also features a unique BASS RESPONSE OPTIMIZER, or "BRO™ circuit" that works like the "loudness" controls on vintage stereo systems. With the "BRO"™ circuit engaged, low frequency response increases as the overall volume is decreased providing for outstanding low frequency response at lower volume levels.