

X14T

STAGE MONITOR – MAIN PA
14" COAXIAL ACTIVE
SPEAKER SYSTEM

Xcellence



Get the best of two worlds: a revolutionary new 14" coaxial loudspeaker performs as a 15" in the low frequencies, keeping vocals as clear as in a 12". There is no better combination of performance, power, weight and size! An outstanding stage monitor, and still a great deal as main PA. One size fits all: the new X14T!

KEY FEATURES

TRANSDUCER TECHNOLOGY

Coaxial two-way active speaker system composed by one 3-inch voice coil, neodymium magnet, 14" loudspeaker front loaded in a bass-reflex tuned enclosure and a 3" titanium diaphragm neodymium driver. The format of X14T allows using it as Main PA or stage monitor.

AMPLIFICATION

1500 W 3rd generation Class D built-in amplifier, controlled by a dedicated DSP.

90% efficiency amplifier SMPS (switching mode power supply), allowing maximum power delivery with minimum consumption in an extremely low-weight and reduced size.

Rear connections and control panel with LCD screen to display the different settings, presets and adjustments done by the user. A capacitive keyboard guarantees the reliability of the system even under humidity and extreme weather conditions.

Exclusive and unique Overvoltage Protection which continuously monitors line voltage and instantly disconnects the system if the line voltage exceeds the maximum permissible level.

DSP & CONTROL

Internal DSP with all necessary signal processing (crossovers, EQs, delay, limiters, gain control, mute) as well as several useful presets to adjust X14T to different requirements.

Ethernet connection and full wireless control: the system can be monitored from any spot in the room.

DSPStudio® control software capable of adjusting and setting-up even the finest details and monitoring key parameters of the amplifier: input and output levels, clip limiter activation, amplifier temperature and network connection status.

DESIGN & ACCESSORIES

Several accessories allow easy flying. A 35 mm socket for mounting the loudspeaker on a speaker stand is provided at the bottom of the cabinet.









Ergonomic handles for an easy and comfortable transport.

Baltic birch plywood wooden cabinet with Polyurea® coating, offering maximum reliability and strength for touring as well as for high demanding applications.

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-  **DSP STUDIO CONTROL APP FOR IPAD & WINDOWS**
-  **WITH CWK-D**
-  **COAXIAL SPEAKER**
-  **LIGHT NEODYMIUM COMPONENTS**
-  **> 250 V OVERVOLTAGE PROTECTION**
-  **MULTIPLE PRESETS AVAILABLE**
-  **HIGH RESISTANT POLYUREA® PAINT**
-  **ACCESSORIES FOR EASY INSTALLATIONS**

TECHNICAL FEATURES

Amplifier (program power)	1000 W (LF) + 500 W (HF) – Class D Bi-amplified
Input sensitivity	8 dBu – 1.94 V
Input Impedance	20 kΩ Balanced
Mains	Universal Switch Mode Power Supply 85-265 V / 45-65 Hz
Average current draw	2.1 A (Heavy duty musical program)
SPL (1 m)	128 dB continuous, 131 dB peak
Built-in DSP	48 bit
AD/DA converters	24 bit – 96 kHz
Presets	FLAT / NEARFIELD / NEARFIELD+ / SPEECH / MONITOR / XOVER / PRESENCE + 23 configurable user memories
Crossover frequency	1 kHz
Frequency response (-10 dB)	46 Hz – 20 kHz
Components	Coaxial transducer LF 14" neodymium woofer (3" voice coil) HF 3" titanium diaphragm neodymium driver
Directivity (HxV)	80° conical
Directivity factor (Q)	12,6
Directivity index (DI)	11 dB
Weight	22.6 kg
Dimensions (HxWxD)	625 x 410 x 430 mm
Finish	Multilayer baltic birch plywood with high resistant black Polyurea® coating
Grille	2 mm steel with grey micro-foam cloth
Rigging	M8 points
Connectors	1x XLR input / 1x XLR link / 1x AC PowerCon input / 1x AC PowerCon link / 1x EtherCon RJ45 input / 1x EtherCon RJ45 link



BOTTOM VIEW



TOP VIEW



LEFT SIDE VIEW



FRONTAL VIEW
WITHOUT GRILLE



RIGHT SIDE VIEW



REAR VIEW



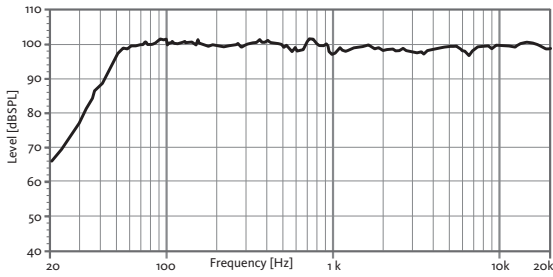
CONNECTION PANEL

X14T

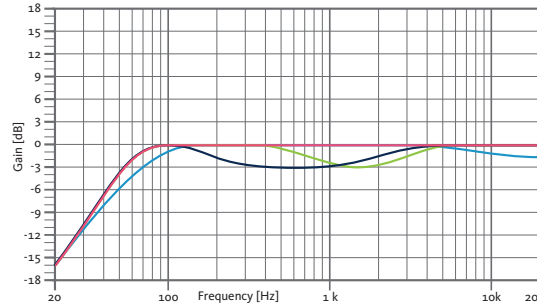
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FREQUENCY RESPONSE 1w/1m (FLAT PRESET)

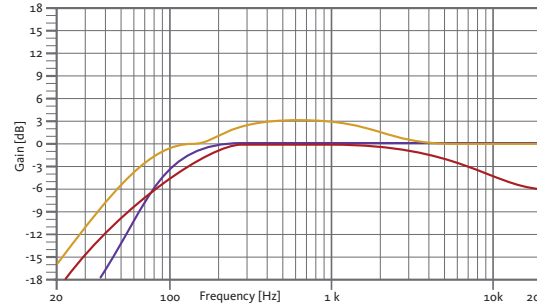
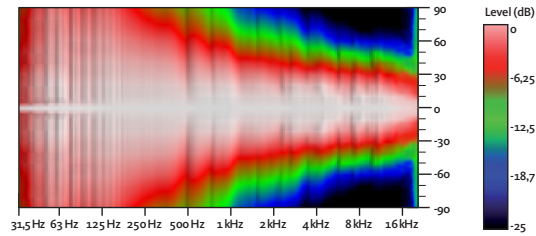


BUILT-IN PRESETS



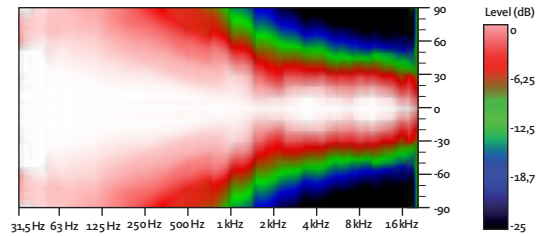
- FLAT**
Flat response (on tripod)
- MONITOR**
Flat response (on floor)
- NEARFIELD**
-3 dB mid frequencies (800 Hz – 3 kHz)
- NEARFIELD+**
-3 dB mid frequencies (200 Hz – 3 kHz)

HORIZONTAL COVERAGE

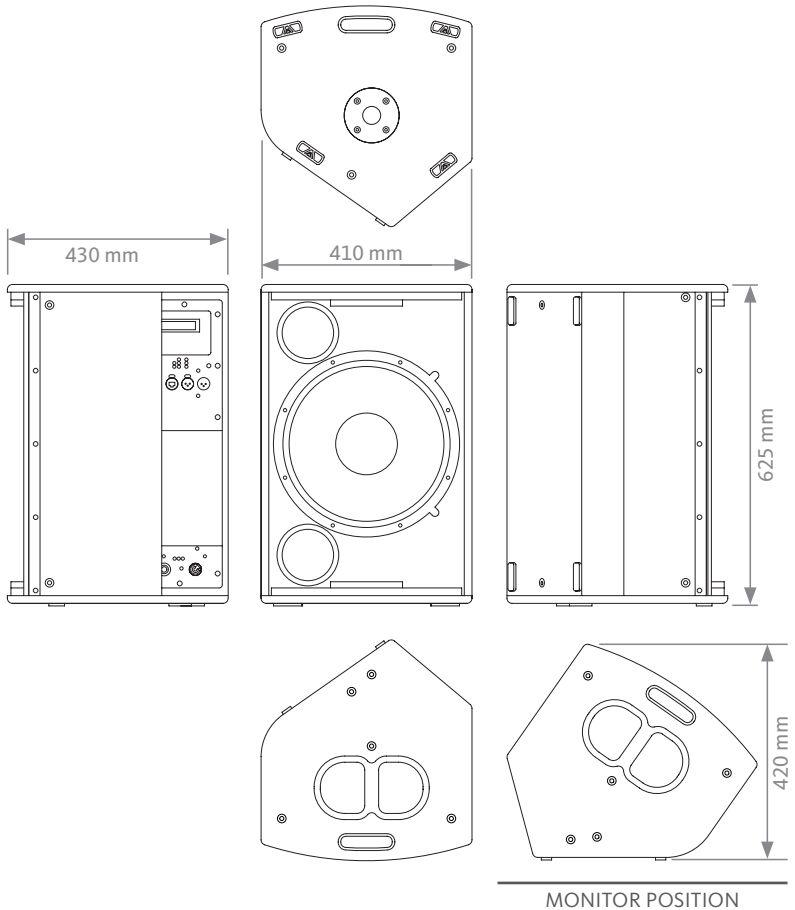


- SPEECH**
-6 dB low / -6 dB high
- XOVER**
HPF 100 Hz
- PRESENCE**
+3 dB mid frequencies (200 Hz – 3 kHz)

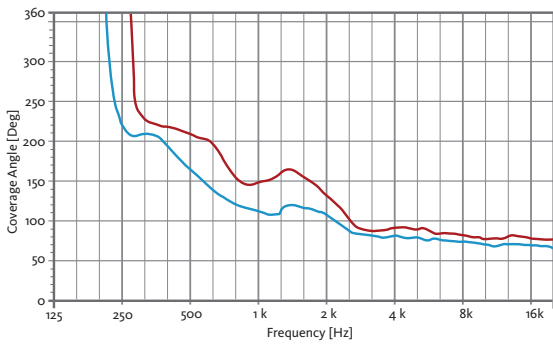
VERTICAL COVERAGE



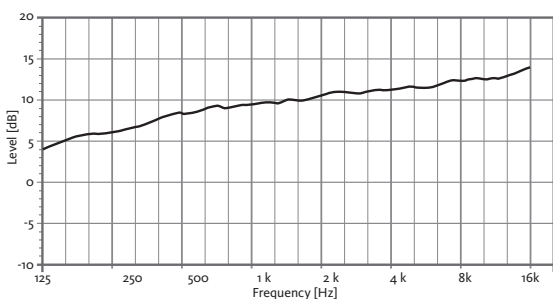
CAD DRAWING SCHEME



HORIZONTAL & VERTICAL BEAMWIDTH (-6dB point)



DIRECTIVITY INDEX (DI)



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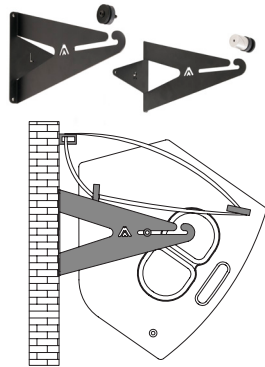


ACCESSORIES

FLIGHT CASE
FC-X14T for two units of X14T



WALL MOUNT BRACKET
UB-L



FLYING BAR
HR-1215



HOOK FOR FLYING BAR
GT-50HR



ADJUSTABLE WALL STAND
SP-35



M8 RIGGING EYEBOLT
ACR-M8



DISTANCE ROD M20
SP-CRTL
Ø: 35 mm
Length: 55 cm ~ 90 cm
Thread: M20



WIRELESS COMMUNICATION KIT
CWK-D
Bespoke control protocol that supports Wi-Fi connectivity through CWK-D



SAFETY SLING
SC-15



DSP STUDIO CONTROL SOFTWARE



The application utilises a bespoke control protocol that supports Wi-Fi connectivity (control over IP).

It allows to address the ethernet-enabled amp and DSP modules in the Xcellence series cabinets, affording the user visual feedback on amplifier status and the ability to edit processor values from any spot in the venue.

You can edit parameters such as crossover frequency, gain (per way and separately mutable), limiter, polarity, delay, five custom parametric EQs or an array of filter shapes, can all be adjusted in fine detail, with several elements controllable at the same time using grouping functions.

The app also provides comprehensive information about input and output levels, heat-sink temperature, clip and protection indicators.

"Instant access to outstanding sound"

1

Configure your wifi network

2

Detect loudspeakers

3

Setup audio settings

4

Enjoy the best sound



iPad
VERSION



PC
VERSION

Download it from our website:
www.amateaudio.com