X21T

2500 W
1x 21" ACTIVE
SUBWOOFER

Xcellence

amate audio

WiFi™

WITH CWK-D

The definitive answer to your bass requirements. When it comes to astonish the audience with a superb bass, the X21T will do the work. Thanks to its original design in bandpass/hornloaded configuration and a new oversized neodymium 21" woofer, delivers both consistent low end as well as an amazing punch in the upper lows.

KEY FEATURES

TRANSDUCER TECHNOLOGY

Active subwoofer composed by one 5.3-inch voice coil, neodymium magnet, last-generation 21" loudspeaker loaded in a bandpass tuned enclosure with laminar ports.

AMPLIFICATION

2500 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 X21T 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

Connectors are placed on an inclined plane to increase protection against rain or moisture.

M10 plate socket provided at the top side for full-range enclosure stacking.

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

EXCLUSIVE BAND
PASS DESIGN

CARDIOID
PRESETS

LIGHT NEODYMIUM
COMPONENTS

> 250 V
OVERVOLTAGE
PROTECTION

MULTIPLE PRESETS
AVAILABLE

HIGH RESISTANT
POLYUREA® PAINT

ACCESSORIES FOR
EASY INSTALLATIONS

TECHNICAL FEATURES

Amplifier (program power)	2500 W – Class D
Input sensitivity	2 dBu – 1 V
Input Impedance	20 kΩ Balanced
Mains	Universal Switch Mode Power Supply 85-265 V / 45-65 Hz
Average current draw	3.5 A (Heavy duty musical program)
SPL (1 m)	133 dB continuous, 136 dB peak
Built-in DSP	48 bit
AD/DA converters	24 bit – 96 kHz
Presets	LPF80 / LPF80+3 / LPF90 / LPF90+3 / LPF100 / LPF100+3 / LPF110 / LPF110+3 / LPF120 / LPF120+3 / CARDIOID + 23 configurable user memories
Crossover frequency	80 Hz / 90 Hz / 100 Hz / 110 Hz / 120 Hz
Frequency response (-10 dB)	28 Hz – 120 Hz
Components LF	21" neodymium woofer (5.3" voice coil)
Directivity (HxV)	Omnidirectional
Directivity factor (Q)	1
Directivity index (DI)	0
Weight	75.8 kg
Dimensions (HxWxD)	668 x 749 x 900 mm
Finish	Multilayer baltic birch plywood with high resistant black Polyurea® coating
Grille	1.5 mm steel with grey micro-foam cloth
Connectors	1x XLR input / 1x XLR link / 1x AC PowerCon input / 1x AC PowerCon link / 1x EtherCon RJ45 input / 1x EtherCon RJ45 link

SIDE VIEW

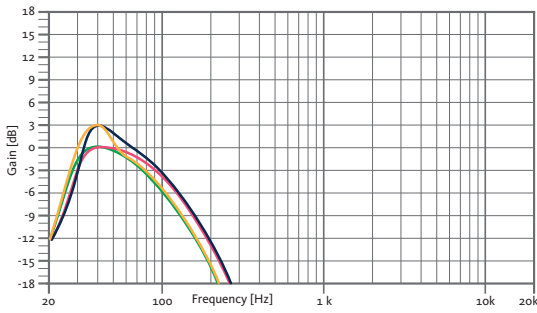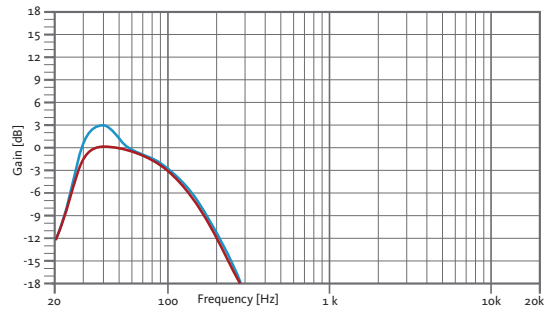FRONTAL VIEW WITHOUT GRILLE

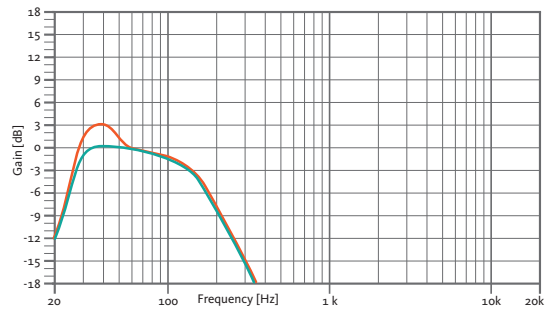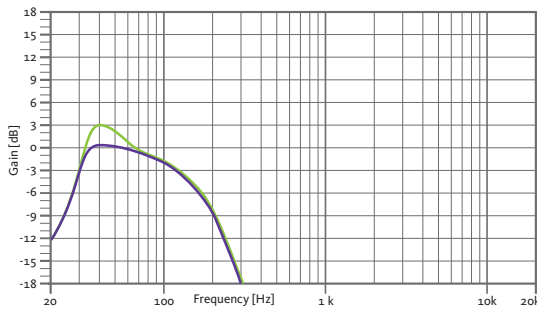REAR VIEW

BOTTOM VIEW

TOP VIEW

CONNECTION PANEL

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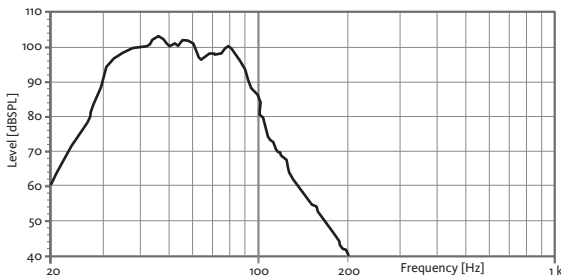
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BUILT-IN PRESETS

LPF80
LPF 80 Hz

LPF80+3
LPF 80 Hz + 3dB boost

LPF90
LPF 90 Hz

LPF90+3
LPF 90 Hz + 3dB boost

LPF100
LPF 100 Hz

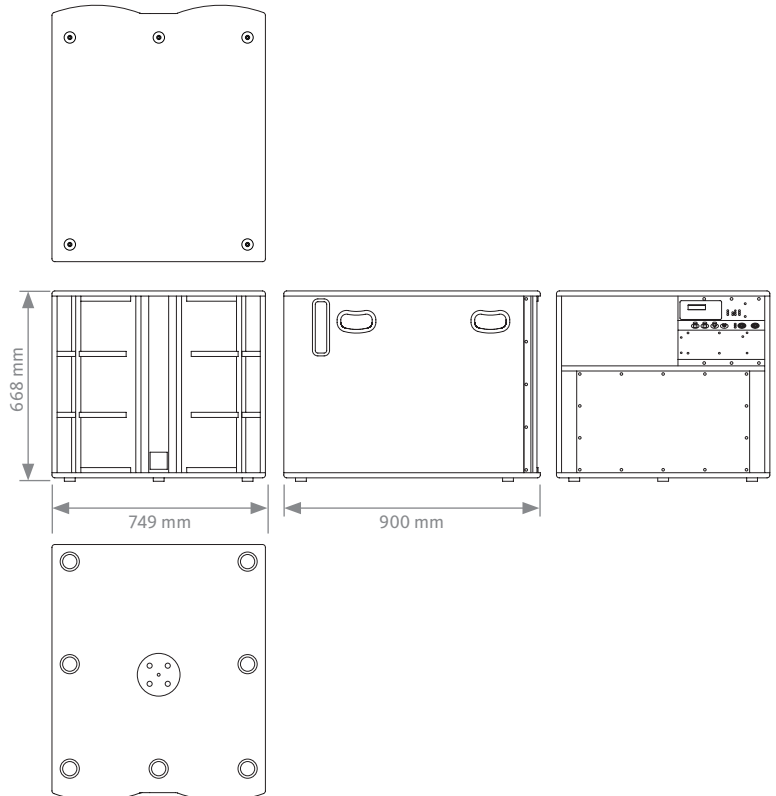**LPF100+3**
LPF 100 Hz + 3dB boost

LPF110
LPF 110 Hz

LPF110+3
LPF 110 Hz + 3dB boost

LPF120
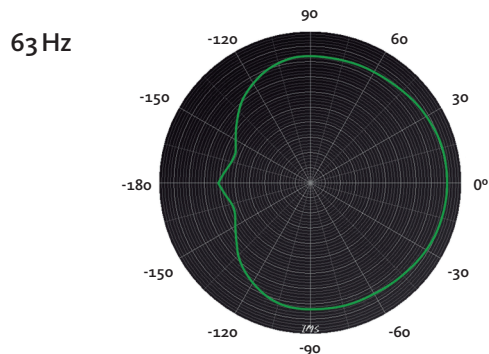LPF 120 Hz

LPF120+3
LPF 120 Hz + 3dB boost

FREQUENCY RESPONSE 1w/1m (LPF90+3 PRESET)

CAD DRAWING SCHEME

668 mm

749 mm

900 mm

EASY CARDIOID CONFIGURATION THROUGH DEDICATED PRESET

63 Hz

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ACCESSORIES

FLIGHT CASE FC-X21T
For one unit of X21T

STACKING FRAME FR-X208
For X21T underneath X208

STAINLESS STEEL

STACKING FRAME FR-X210
For X21T underneath X210

STAINLESS STEEL

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

DSP STUDIO CONTROL SOFTWARE

"Instant access to outstanding sound"

1 Configure your wifi network

2 Detect loudspeakers

3 Setup audio settings

4 Enjoy the best sound

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.

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iPad VERSION

Available on the App Store

Wi-Fi™

PC VERSION

Download it from our website: www.amateaudio.com

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