



Datasheet VIO L210

2-Way Active Line Array Module
900W RMS CLASS-D DIGIPRO G3



Applications

- Large live sound applications
- Permanent installation in theatres, houses of worship, convention centres
- Portable PA, retail, clubs, ballrooms, houses of worship, corporate AV, live theatres

Features

- 2-Way active line array module
- Network ready with an integrated RDNet port
- Integrated rigging hardware
- Exclusively designed HF waveguide
- Aluminium phase plugs for constant dispersion
- Advanced DSP featuring FIR Filters
- Up to 6 modules in a single 16A 230V circuit
- Lightweight neodymium magnets
- On-Board double rotary EQ control system
- Smooth configuration and set up operations

Description

As a result of many years' experience developing solutions for powered line array systems, VIO L210 reaches the next level among dBTechnologies' speaker range aimed at larger sound reinforcement applications. The internal acoustic design and sound processing developed by dBTechnologies' R&D department merge to deliver outstanding performances in terms of sound pressure, coverage coherence, intelligibility and sound definition.

Made of solid multiplex plywood coated with a black polyurea finish, the housing is fronted with a black grille which complete a sober, unobtrusive look which can easily adapt to any scenic design. The speaker's cabinet is easy to tote thanks to its 4 handles, 1 per side and 2 on the back, and its amplifier module is protected

with an integrated black raincover.

Acoustic enclosure is completed by two massive aluminum phase plugs located in front of both 10" woofers. Their external surface is the prosecution of the constant directivity high-frequency waveguide.

Each phase plug features 26 diamond-shaped holes essential to reduce the interference between the two LF emission points and to improve frequency and transient response.

The two premium 10" neodymium transducers, positioned in a V form and sealed in a bass reflex enclosure, have been custom-designed to improve efficiency. In facts, their voice coils, made of copper plus aluminum coating, are designed to last even in the most demanding conditions, providing an accurate transient response and an extended low-end reproduction. Furthermore, these transducers have been specifically designed for the VIO in order to make the most of the system. One single 3" voice coil compression driver (1.4" exit throat) accurately delivers high frequencies. A brand new waveguide contributes to create a cylindrical wavefront, allowing a very precise high-frequency directivity control, much to the advantage of the system's throw-distance. The crossover frequency between the 2 ways lows down to 950 Hz and each module guarantees a uniform 100° horizontal coverage.

VIO L210 features a double rotary user interface to process the system manually. The first rotary is dedicated to low frequency adjustments in order to control coupling effects depending on the array dimensions. The second rotary helps to compensate for the high frequencies loss due to throw distance.

Both rotaries features several accurate presets, while the prediction software dBTechnologies Composer provides for more precise configurations. Any preset can be easily changed remotely via dBTechnologies Network.

VIO L210

Technical Specifications

Technical Data

Speaker Type	2-Way active line array module
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Acoustical data

Usable Bandwidth [-6dB]	67 - 20.000 Hz
Frequency Response [+/- 3dB]	78 - 18.100 Hz
Max SPL	One Unit: 135 dB
HF	HF: 1x 1.4"
Voice Coil HF	3"
Type HF	Neodymium
LF	2x 10"
Voice Coil LF	2.5"
Type LF	Neodymium
Horizontal Directivity	100°
Vertical Directivity	Depends on array size and configuration one unit:10°

Amplifier

Amp Technology	Digipro® G3
Amp Class	Class-D
RMS Power	900 W
Peak Power	1800 W
Cooling	Convection
Power Supply	900 W SMPS with Auto-range PSU

Processor

Controller	DSP 56 bit
AD/DA converter	24bit/48kHz
Limiter	Dual active multiband peak, RMS, Thermal
Processing (filters)	FIR Linear Phase
Crossover Frequency LF-HF	950 Hz
Slope LF-HF	24 dB/Octave

Rear Panel

Signal Input	1x XLR female, balanced
Signal Output	1x XLR male, balanced
Network	RDNet remote control RJ45 connector IN/OUT
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Controls	1x Speakers coupling (7 presets) 1x HF compensation (8 presets) 1x Input attenuation rotary switch

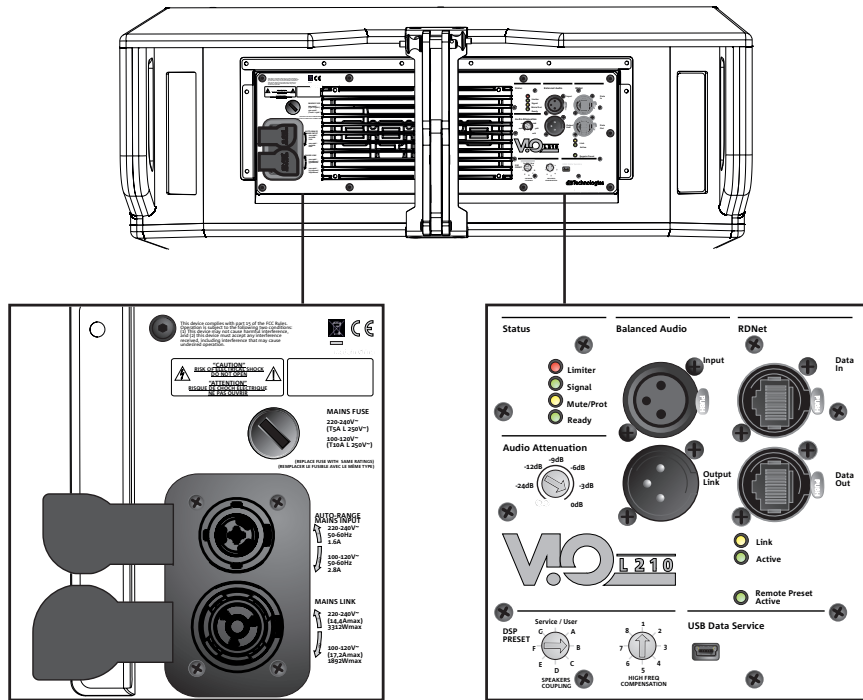
Mechanics

Housing	Multiplex plywood - Polyurea painting
Housing Design	Trapezoidal - 10°
Handles	1 x Side, 2 Rear
Rain Cover	Included
Rigging Points	Integrated rigging hardware
Dimensions (Width x Height x Depth)	720 x 320 x 520 mm (28.35 x 12.6 x 20.47 in)
Weight	28.6 kg (63 lbs)

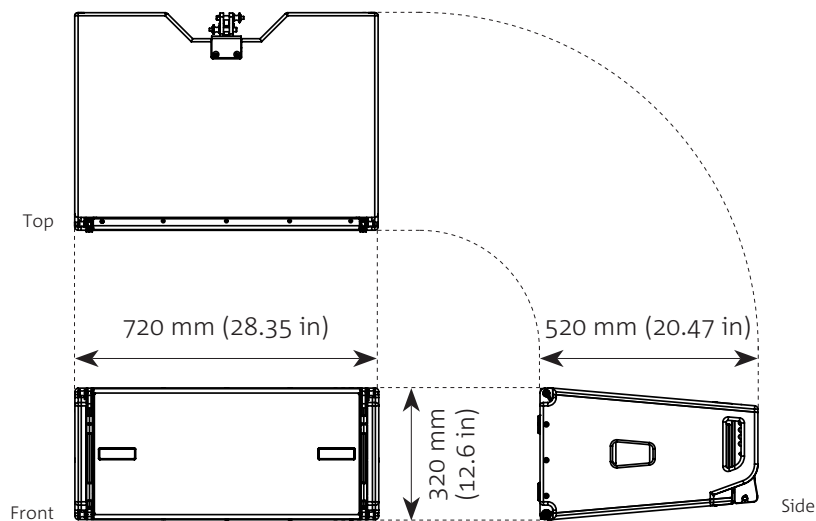
VIO L210

Technical Specifications

Rear Panel



Overall Dimensions



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dBTechnologies products are continually improved. All specifications are therefore subject to change without notice.

VIO L210

Accessories

TRANSPORT & INSTALLATION

DRK-210	Flybar for VIO L210. Suitable for fly and stack use.
DT-VIOL210	Touring cart for 4 VIO L210 modules and a DRK-210 flybar.

BAGS & COVERS

TC-VIOL210	Transport cover for 4x VIO L210 on DT-VIOL210. Waterproof.
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CABLES

DAC-70	XLR-XLR audio cable (70 cm).
DCK-27T	Cable-Set for VIO L210 / S318 containing 2x DAC-70 and 2x DPTC-70L.
DPTC-70L	PowerCON TRUE1-PowerCON TRUE1 power link cable (70cm).
DPTC-1000M	Mains PowerCON TRUE1 cable (10m). Different plugs available for several countries.
RDC-45F	RJ45 to XLR 3 poles female conversion cable, 6 cm length. The cable converts from RDNet RJ45 to XLRF.
RDC-45M	RJ45 to XLR 3 poles male conversion cable, 6 cm length. The cable converts from RDNet RJ45 to XLRM.
RJ45-RJ45-150	RJ45-RJ45 link cable (150cm) for RDNet speakers. EtherCON connectors.
RJ45-RJ45-75	RJ45-RJ45 link cable (75cm) for RDNet speakers. EtherCON connectors.