

Datasheet VIO S318

Active Bassreflex,
Semi-horn Loaded subwoofer
2700W 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

- Active tri-amped 3x 18" bassreflex semi-horn loaded subwoofer
- On-Board delay for perfect time alignment
- On-Board cardioid array configuration switch
- Frequency range extending down to 35 Hz
- Network ready with an integrated RDNet port
- Polyurea painting on a road-resistant wooden enclosure

Description

VIO S318 is equipped with 3x18" woofers, 2 of which are half horn loaded, while the third one is a direct radiation woofer. This way, the sub combines the contribution of two different configurations.

The 3 woofers are aligned in order to achieve a perfect phase response. Its innovative acoustic design contributes in creating an unprecedented performance/dimension ratio for a triple woofer powered system.

Designed to pair perfectly with VIO L210, VIO S318 features 3x18" woofers and Digipro G3 amplification technology encompassed in a sturdy plywood cabinet designed to ease transport, storage, as well as multi-sub configurations.

The high quality multiplex housing is reinforced with a robust polyurea finish and equipped with 4 aluminium handles per side. The pickpoints on the top of the cabinet allow to fix the DRK-210 flybar, while 4 additional eyelets allow to fasten the load during transport using ratchet straps. The internal configuration of the 3 woofers maximizes the acoustic radiant surface, delivering a solid sound performance.

The 3 DIGIPRO G3 amplifiers deliver a total 2700 W RMS power, allowing the system to reach up to 143dB SPL. A solution combining resolute power, compact design and ease of use. The system features an integrated delay module achieving up to 9.9 ms delay with 0.1 ms steps (a further delay can be set via RDNet remote control software). The crossover module sets both the low pass filter and the highpass filter for the integrated crossover output. The system also features an attenuation control, a polarity switch and an RDNet port for remote control.

In cardioid configurations with 3 subs, the 'cardioid' button allows to process automatically the sub facing backwards, in order to achieve the maximum cancellation. The recessions on the top of the sub facilitates the passage of the cables between the cabinets.

VIO series' simulation models for Ease Focus 3 are available at dbtechnologies.com, as well as the proprietary prediction software dBTechnologies Composer. The dolly transport DO-VIOS318 allows to transport up to 3 subs simultaneously, both on wheels or on the forklift truck. As an alternative to the dolly, 4 wheels can be mounted on the rear side of the cabinet.

VIO S318

Technical Specifications

Technical Data

Speaker Type	Active bassreflex, semi-horn loaded subwoofer
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Acoustical data

Frequency Response [-6dB]	39 Hz to cut freq (Xover dependent)
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Frequency Response [-10dB]	35 Hz to cut freq (Xover dependent)
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Max SPL	143 dB
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LF	3x 18"
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Voice Coil LF	4"
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Directivity	Omnidirectional
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Amplifier

Amp Technology	Digipro® G3
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Amp Class	Class-D
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RMS Power	2700 W
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Peak Power	5400 W
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Cooling	Convection
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Power Supply	2700 W SMPS with Auto-range PSU
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Processor

Controller	DSP 64 bit
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AD/DA converter	24bit/96kHz
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Limiter	RMS, Peak, Thermal
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Delay Option	0-9.9 ms internal steps of 0.1 ms
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LPF-Xover out freq	70-105 Hz + Full range (selectable)
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LPF-Xover out slope	24 dB/Octave
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Rear Panel

Signal Input	1x XLR female, balanced
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Signal Output	1x XLR male, balanced
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Network	RDNet remote control RJ45 connector IN/OUT
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Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
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Controls	1x Input attenuation rotary encoder 2x Rotary encoder (Delay 9.9 ms) 1x Polarity inversion switch (0° or 180°) 1x Cardioid mode switch 1x X-Over Frequency Switch (70-105 Hz + Full-Range steps of 5Hz)
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Mechanics

Housing	Multiplex plywood - Polyurea painting
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Additional Features	4x Eyelets for ratchet straps
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Handles	4x Side. Aluminium
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Rain Cover	Included
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Rigging Points	2x Pick points on top to fix DRK-210 rigging frame
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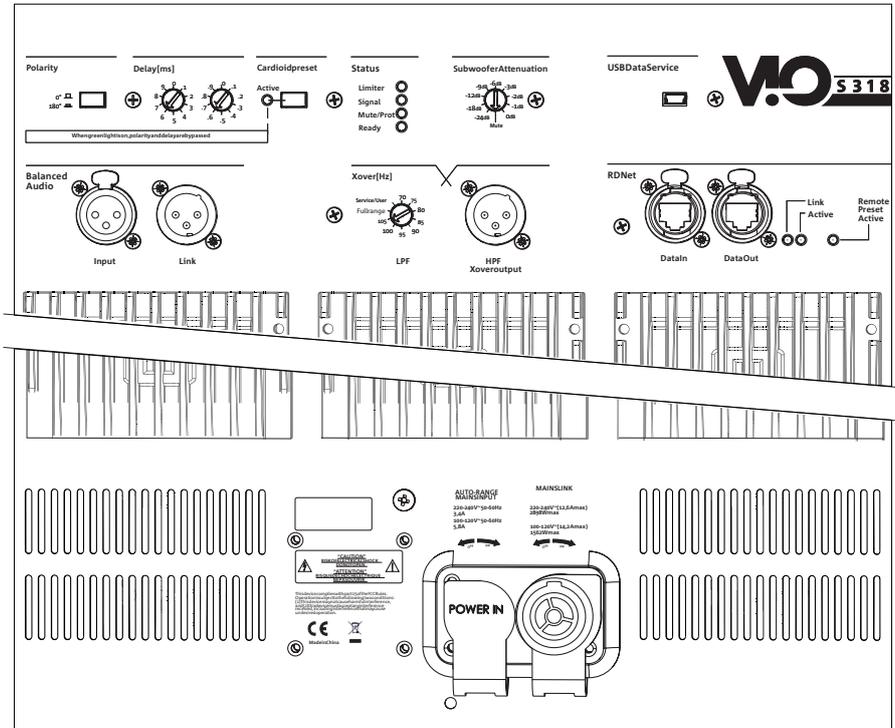
Dimensions (Width x Height x Depth)	1300 x 520 x 800 mm (51.18 x 20.47 x 31.5 in)
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Weight	103.9 kg (229.06 lbs)
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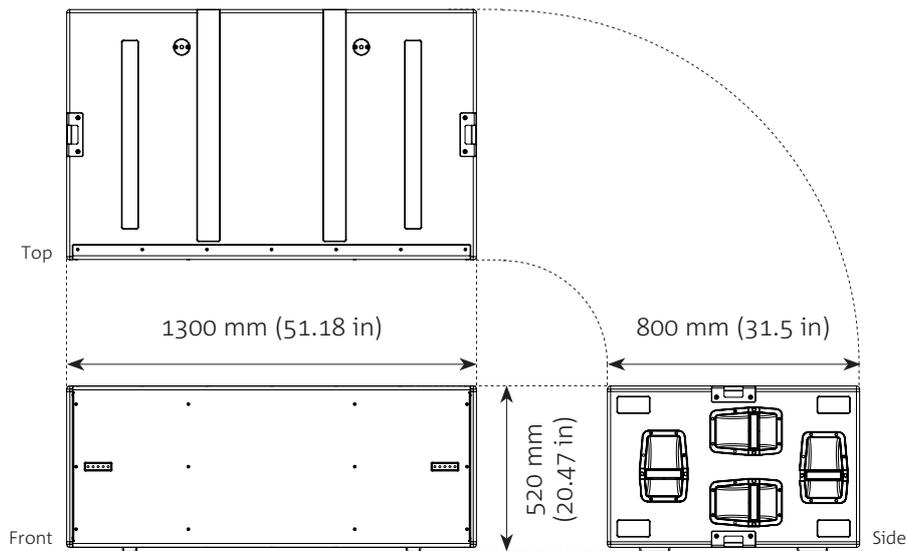
VIO S318

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 S318

Accessories

TRANSPORT & INSTALLATION

DO-VIOS318	Dolly for up to 3x VIO S318 Stacked horizontally (wheels included).
SWK-18 KIT	Kit consisting of 4 wheels for VIO S318 back panel.

BAGS & COVERS

FC-VIOS1	Functional cover for one VIO S318. Waterproof.
TC-VIOS2	Transport cover for two VIO S318 on DO-VIOS218. Waterproof.

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-160L	PowerCON TRUE1-PowerCON TRUE1 power link cable (160cm) for VIO S318.
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.