VIO S118R

VIO S118





ACTIVE 1x 18" BASS REFLEX SUBWOOFER

FLYABLE ACTIVE 1x 18" HORN LOADED SUBWOOFER

LAST GENERATION DIGIPRO G4 AMP TECHNOLOGY

1600 W RMS SMPS AMPLIFIERS

SMPS WITH PFC

SYSTEM-TEST FOR QUICK DIAGNOSTICS

INTEGRATED FLYING HARDWARE ON VIO S118 (COMPATIBLE WITH VIO L210)

DESIGNED FOR MAXIMUM EFFICIENCY IN THE LOWER END

ON BOARD DELAY FOR PERFECT TIME ALIGNMENT

ON BOARD CARDIOID ARRAY CONFIGURATION PRESET

MODULAR SLOT FOR NETWORK AND DIGITAL AUDIO EXPANSION CARDS (RDNET CARD INSTALLED)

SINGLE ACTIVE SUBWOOFERS

Two single 18” subwoofers featuring premium components and complete networkability, both designed to integrate dBTechnologies’s top-range line array family with a compact solution. Horn loaded in a cabinet ready for flying applications, VIO S118 is the perfect low-end extension of VIO arrays whenever a particularly long-throw is needed, while Bass reflex VIO S118 R encompasses a powerful punch in impressively small dimensions.

	VIO S118R	***VIO S118***
Speaker Type	Active Bassreflex subwoofer	Active Horn-Loaded Flyable Subwoofer
Usable Bandwidth [-10dB]	32 Hz (HPF)	33 Hz (HPF)
Frequency Response [-6dB]	35 Hz to cut frequency (Xover dependent)	36 Hz to cut frequency (X-Over Dependent)
Max SPL	139 dB	139 dB
LF	1x 18”	1x 18”, Neodymium
Voice Coil LF	4”	4"
Directivity	Omnidirectional	Omnidirectional
Amplifier	1600 W RMS Class-D Digipro® G4	1600 W RMS Class-D Digipro® G4
Cooling	Convection, internal fan	Convection, internal fan
Power Supply	Full-range SMPS with PFC (100V~-240V~, 50-60Hz)	Full-range SMPS with PFC (100V~-240V~, 50-60Hz)
Controller	DSP 32 Bit	DSP 32 Bit
AD/DA Converter	24 bit 96 kHz	24 bit 96 kHz
Limiter	Peak, RMS, Thermal	Peak, RMS, Thermal
Delay Option	0 - 9.9 ms internal | steps of 0.1 ms [on-board]	0 - 9.9 ms internal | steps of 0.1 ms [on-board]
Xover Frequency LF-Xover out	Selectable 60-110 Hz + Full Range (8 steps)	Selectable 60-110 Hz + Full Range (8 steps)
LF-Xover out slope	24 dB/Octave	24 dB/Octave
Signal Input	1 x XLR balanced	1 x XLR balanced
Signal Output	1 x XLR balanced (link or X-over)	1x XLR balanced (link or X-over)
Power Socket	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out	1x PowerCON TRUE1 In 1x PowerCON TRUE1 Out
Expansion Card	RDNet Card (1x RJ45 IN 1x RJ45 Link) Dante Card [Optional]	RDNet Card (1x RJ45 IN 1x RJ45 Link) Dante Card [Optional]
Controls	1x Input Attenuation Rotary Switch 2x Delay Rotary Encoder (9.9 ms) 1x Polarity Inversion Switch (0° or 180°) 1x Cardioid Mode Switch 1x X-Over Freq Rotary Encoder (8 steps) 1x System Auto-test	1x Input Attenuation Rotary Switch 1x Rotary Encoder (Delay 9.9 ms) 1x Polarity Inversion Switch (0° or 180°) 1x Cardioid Mode Switch 1x X-Over Freq Rotary Encoder (8 steps) 1x System Auto-test
Special Features	380V Resistant SMPS IPOS Intelligent Power-On Sequence Opto-isolated floating pre-amp System Test (transducers diagnostics)	380V Resistant SMPS IPOS Intelligent Power-On Sequence Opto-isolated floating pre-amp System Test (transducers diagnostics) NFC™ and Frontal LED Identification System
Housing	Multiplex plywood - Polyurea painting	Multiplex plywood - Polyurea painting
Handles	2x per Side, Aluminium	2x per Side, Aluminium
Pole Mount	M20 Thread	M20 Thread
Rain cover	Included	Included
Rigging Points	2x Pick Points on top to stack DRK-210	2x Pick Points on top to stack DRK-210 8x Flying Hardware (4x on top, 4x on bottom)
Width x Height x Depth	720 x 530 x 700 mm (28.34 x 20.86 x 27.56 in)	720 x 520 x 700 mm (28.34 x 20.47 x 27.56 in)
Weight	47 kg (103.62 lbs)	45.1 kg (99.42 lbs)

VIO S118R

Equipped with a 18” neodymium woofer (4” voice coil), the bass reflex sub has been crafted to complete with impressive low-end VIO line array systems.

The front-loaded bass-reflex configuration ensures excellent performance at both close and mid-distance. While the ideal use is groundstacked in indoor venues it still can be used as a powerful stand-alone low-frequency extension for main VIO Line Array Systems for large audiences outdoor.





Latest generation amplifier

Both VIO S118 & VIO S118R system’s acoustic engine is driven by a Digipro G4® 1600W Class D amplifier. The switched mode power supply is equipped with PFC (Power Factor Corrector) which greatly improves the efficiency of the system. This also grants a worldwide compatibility of the power supply (from 90V to 265V 50/60Hz) and limits power consumption. Furthermore, the power supply is 380V resistant, so the final amplifiers will be switched off in case of an undesired strike of 380V current, saving them from any damage.

Digipro G4 preamplifier features a slot module, equipped with a RDNet expansion card as default, allowing system monitoring and control via Aurora Net. Furthermore, the system is ready for Audinate Dante™ Expansion Card allowing integration in a digital audio network. The amplifier also allows users to run a real-time test on transducers, both remotely via Aurora Net, or directly on the amplifier module.

The amp module features an on board attenuation control and a delay module allowing to reach a max 9.9 ms delay with 0.1 ms steps. The on board cardioid preset process the sound of the backward sub in cardioid configurations.

Transport & Installation Accessories

DO-VIOS118



Dolly for up to 3x VIO S118 / S118R

SWK-18 KIT



Kit consisting of 4 wheels for VIO S118R back panel.

DSA-VIOL208



Groundstack adapter for VIO L208 on VIO S118 and S118R.

AF-VIO1



Adapter frame for flying VIO L208 under VIO S118 / VIO L210 and groundstacking VIO L208/L210 above any VIO sub.

FSA-VIOL210



Adapter to fly VIO L210 under flown VIO S118.

GSA-VIOL210



Adapter to stack VIO L210 on VIO S118.



This flyable active subwoofer, equipped with a 18" neodymium transducer, has been crafted to complete the accurate and phase coherent wave front of VIO Line Arrays with impressive low-end frequencies and vigorous SPLs.

VIO S118 also features a NFC™ system and a LED on the front grille.

dBTechnologies developed a horn loaded design, while maintaining the size of a front-loaded sub cabinet, resulting in a double advantage: smaller dimension (and weight – only 45,1 kg) and a remarkable lower frequencies response even at a long distance. This makes this sub the perfect low-end extension of VIO arrays whenever a particularly long-throw is needed.

S118's cabinet is equipped with integrated hardware allowing 1 or more subs to be flown in a sub array or on the top of a VIO L210 array. Furthermore the subwoofer can be flown with DRK-210 flybar in inverted orientation to create flown cardioid arrays. With FSA-VIOL210 adapter it is possible to attach VIO L210, or alternatively VIO L208 with AF-VIO1 adapter frame.

Groundstacking line arrays on VIO S118 is possible thanks to dedicated accessories.





Cables

DAC-100	XLR-XLR audio cable (100 cm).
DAC-70	XLR-XLR audio cable (70 cm).
DCK-27T	Cable-Set 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).
DPTC-500L	PowerCON TRUE1-PowerCON TRUE1 power link cable (500cm).
DPTC-1000M	Mains PowerCON TRUE1 cable (10m). Different plugs available for several countries.
DPTC-2000M	Mains PowerCON TRUE1 cable (20m). 16A CekON
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 lenght. 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.
CAT6-CAT6-100	CAT6-CAT6 link cable (100cm) for DANTE™ AoIP and RDNet. EtherCON connectors.
CAT6-CAT6-500	CAT6-CAT6 link cable (500cm) for DANTE™ AoIP and RDNet. EtherCON connectors.