

# SX218

## Dual-driver, direct radiating subwoofer

### Features

- Dual-driver, direct radiating subwoofer
- 2 x 18" (460mm)/4" (100mm) voice coil, long excursion, ferrite magnet, waterproof cone
- Very high output capability
- Tour-grade plywood enclosure with flying inserts

### Applications

- Live sound reinforcement
- Theatre sound
- Corporate AV events



The SX218 achieves the ultimate in subwoofer performance for the most demanding applications – delivering very high output levels and superb transient performance with minimal distortion it is the perfect partner to WPC, with one subwoofer to every 2 top boxes required. With an operating range of 35Hz-150Hz  $\pm$  3dB, it houses dual 18" long-excursion (460mm)/4" (100mm) voice coil drivers with water-resistant cones and triple roll surrounds. Each driver is rated to handle 1000 watts

AES, and has a magnet structure and suspension engineered for maximum linear excursion.

The enclosure is constructed from multi-laminate birch ply and coated with hard-wearing textured paint. Eight reflex ports provide a large frontal area to reduce turbulent air noise, and a perforated steel grille protects the drivers from damage.

# SX218

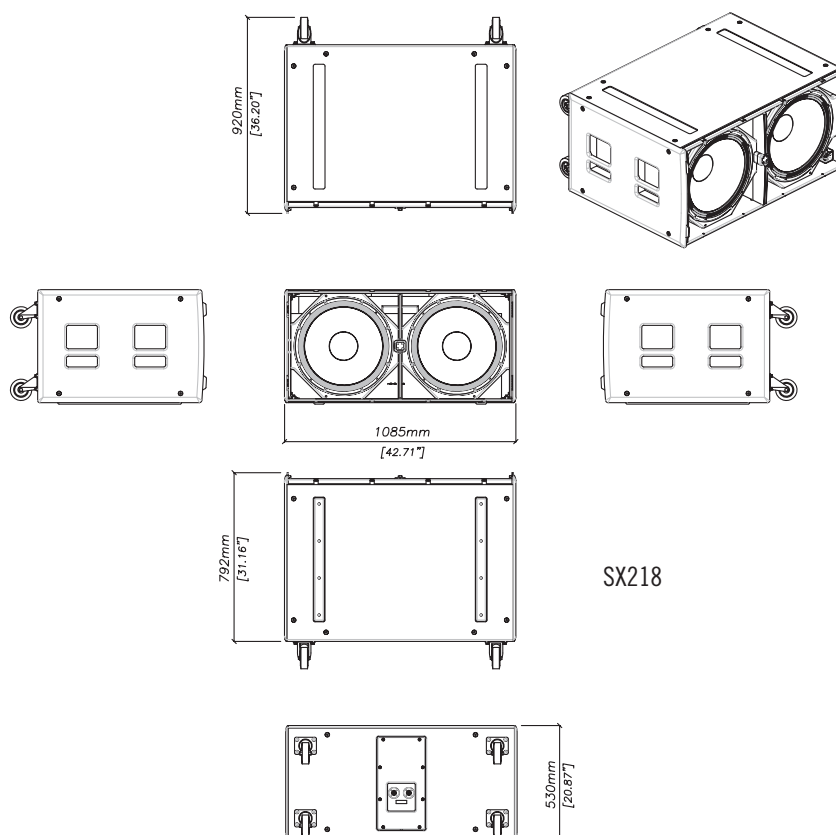
## Dual-driver, direct radiating subwoofer

### Technical Specifications

TYPE	Dual-driver, direct radiating subwoofer
FREQUENCY RESPONSE (1)	35Hz – 150Hz $\pm$ 3dB, -10dB @ 30Hz
DRIVER	2 x 18" (460mm)/4" (100mm) voice coil, long excursion, ferrite magnet, waterproof cone
RATED POWER (2)	2000W AES, 8000W peak
SYSTEM AMPLIFIER	iKON iK42, iK81
SENSITIVITY (10)	105dB
MAXIMUM SPL(9)	144dB peak
NOMINAL IMPEDANCE	2 x 8 Ohms
DISPERSION (-6dB)	Omnidirectional/or Cardioid (paired)
ENCLOSURE	Multi-laminate birch/poplar ply
FINISH	Textured black paint
PROTECTIVE GRILLE	Black perforated steel
CONNECTORS	2 x NL4
PIN CONNECTIONS (INPUT)	LF1: 1+, 1- LF2: 2+, 2-
PINS CONNECTIONS (LINK)	LF1: 1+, 1- LF2: 2+, 2-
FITTINGS	Two skids on base, with mating channels on top
	Four rear-mounted 100mm (4in) castors
	24 x M10 mounting points
	4 x bar handles, 2 on each side
	4 x fittings for optional transit cover
DIMENSIONS (INCL SKIDS)	(W) 1085mm x (H) 537mm x (D) 792mm
	(920mm including castors)
	(W) 42.7in x (H) 21.1in x (D) 31.2in
	(36.2in including castors)
WEIGHT	102kg (225lbs)
ACCESSORIES	Transit cover

#### Notes

- (1) Measured on-axis in half (2pi) space at 2 metres, then referred to 1 metre.
- (2) AES Standard ANSI S4.26-1984.
- (3) Measured in half (2pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (4) Measured in half (2pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- (5) Measured on-axis in open (4pi) space at 2 metres, then referred to 1 metre.
- (6) Measured in open (4pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (7) Measured in open (4pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
- (8) Measured in open (4pi) space at 2 metres with 2.83v input, using band limited pink noise, then referred to 1 metre.
- (9) Calculated at 1 metre.
- (10) Measured in half (2pi) space at 2 metres with 2.83V input, using band limited pink noise, then referred to 1 metre.



SX218

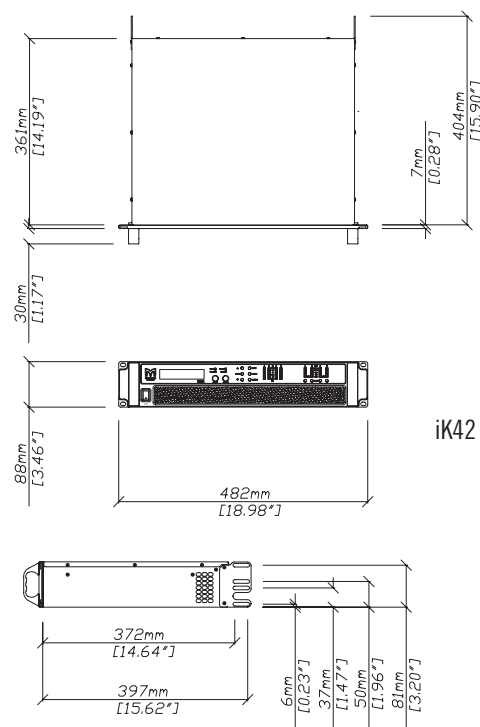
# SX218

Dual-driver, direct radiating subwoofer

## System Amplifier Technical Specifications

### iK42 Amplifier

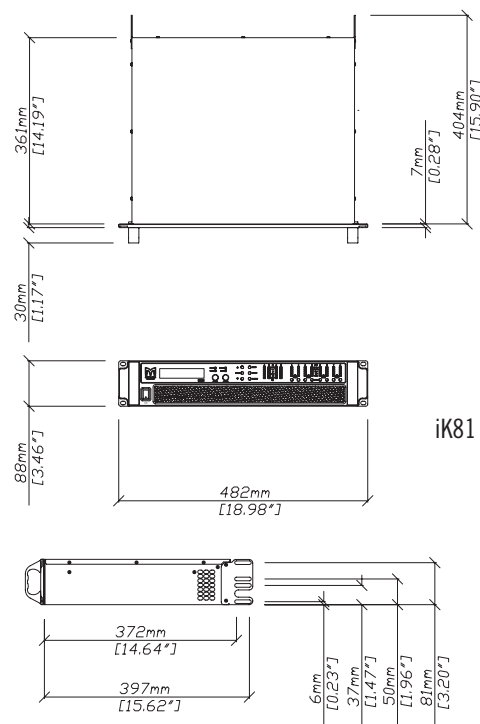
General	
TYPE	Four-channel Class D amplifier
TOTAL OUTPUT POWER	20,000 Watts RMS, all channels driven
DIGITAL SIGNAL PROCESSING	96kHz DSP on all inputs and outputs
COOLING	Dual vari-speed fans, front-to-back airflow
MAXIMUM AMBIENT TEMPERATURE	40°C (104°F)
Audio Inputs/Outputs	
ANALOGUE IN/LINK (4 CHANNELS)	4 x female, 4 x male Neutrik™ XLR
ANALOGUE INPUT IMPEDANCE	20k $\Omega$ balanced to ground
MAXIMUM ANALOGUE INPUT LEVEL	+20dBu
NOMINAL SYSTEM GAIN	32dB
AES3 IN/LINK (2 CHANNELS)	1 x female, 1 x male Neutrik™ XLR, balanced
DANTE™ (4 CHANNELS)	2 x shielded RJ45, primary and secondary
AMPLIFIER OUTPUTS	4 x Neutrik Speakon™ NL4
Control and Monitoring Network	
TOPOLOGY	Ethernet
CONTROL APPLICATION	Martin Audio VU-NET™
Power Supply	
TYPE	High performance Series Resonant
AC INPUT OPERATING RANGE	85 – 240V ~ AC, 47 – 63Hz
MAINS INRUSH CURRENT	6A at 15V, 12A at 230V (max for <10ms)
MAINS CONNECTOR	Neutrik 32A Powercon™
Physical	
DIMENSIONS	(W) 483 x (H) 2U/89mm x (D) 357mm (W) 19in x (H) 2U/3.5in x (D) 14.1in
	incl handles and optional rear support
WEIGHT	12.5kg (27.5lbs)



iK42

### iK81 Amplifier

General	
TYPE	Eight-channel Class D amplifier
TOTAL OUTPUT POWER	10,000 Watts RMS, all channels driven
DIGITAL SIGNAL PROCESSING	96kHz DSP on all inputs and outputs
COOLING	Dual vari-speed fans, front-to-back airflow
MAXIMUM AMBIENT TEMPERATURE	40°C (104°F)
Audio Inputs/Outputs	
ANALOGUE IN/LINK (4 CHANNELS)	4 x female, 4 x male Neutrik™ XLR
ANALOGUE INPUT IMPEDANCE	20k $\Omega$ balanced to ground
MAXIMUM ANALOGUE INPUT LEVEL	+20dBu
NOMINAL SYSTEM GAIN	32dB
AES3 IN/LINK (2 CHANNELS)	1 x female, 1 x male Neutrik™ XLR, balanced
DANTE™ (4 CHANNELS)	2 x shielded RJ45, primary and secondary
AMPLIFIER OUTPUTS	4 x Neutrik Speakon™ NL4
Control and Monitoring Network	
TOPOLOGY	Ethernet
CONTROL APPLICATION	Martin Audio VU-NET™
Power Supply	
TYPE	High performance Series Resonant
AC INPUT OPERATING RANGE	85 – 240V ~ AC, 47 – 63Hz
MAINS INRUSH CURRENT	6A at 15V, 12A at 230V (max for <10ms)
MAINS CONNECTOR	Neutrik 32A Powercon™
Physical	
DIMENSIONS	(W) 483 x (H) 2U/89mm x (D) 357mm (W) 19in x (H) 2U/3.5in x (D) 14.1in
	incl handles and optional rear support
WEIGHT	12.5kg (27.5lbs)



iK81

#### Trade Descriptions Act

Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice. Martin Audio is committed to refining state of the art sound reinforcement, combining in-depth product and field applications research with advanced manufacturing techniques. Every Martin Audio product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.

Martin Audio Ltd

Century Point, Halifax Road, High Wycombe  
Buckinghamshire HP12 3SL, England

Telephone: +44 (0) 1494 535 312  
Email: [info@martin-audio.com](mailto:info@martin-audio.com)

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