

SCS120iW Pro

15" Professional In-Wall Active Subwoofer

Overview

High performance sealed box design using 15"/375mm ATC proprietary sub driver:
Ideal partner to the SCM45A/SCM50A/SCM100A/SCM110A/SCM150A/SCM200A/SCM300A Pro monitors.
Suitable for use in stereo, surround and immersive audio applications.
Rack mount 300W convention cooled discrete MOSFET class A/B amp.
2 x balanced XLR inputs
2 x balanced XLR outputs (un-filtered/processed).
User adjustable gain, low pass frequency, polarity and phase settings.
Remote sub muting via latching footswitch*
Free standing variant also available – the SCS120 Pro.

* Footswitch supplied separately, latching type, ¼"/6.35mm jack connection.

Acoustic specifications

Drive Unit – Bass: 1 x ATC SS75-375SC 8Ω.
Low Frequency Cut-off: 20Hz (-6dB, half space, low pass filter set at 80Hz).
Low Pass Filters: 50Hz, 65Hz, 80Hz, 320Hz. (-6dB, 4th order Linkwitz Riley).
MaxSPL: 113dB continuous, 119dB peak (IEC Weighted Pink Noise, measured at 1m, half space, low pass filter set at 80Hz).
Sensitivity: 85dBC, ref. -17dBu (single channel driven, Gain +6dB, Level 0dB, pink noise, low pass filter set at 80Hz).

Electronic specifications

Balanced Input: 2 x Female XLR, pin 2 hot.
Input Impedance: Approx. 20kΩ (differential).
Input CMRR: 90dB at 200Hz.
Input Sensitivity: 1.12Vrms for full power (single channel driven, Gain 0dB, Level 0dB).
Gain Control: 0, +6dB, +10dB.
Level Control: 0dB -11dB in 1dB steps. Total range 21dB with use of Gain switch.
Phase Control: 0-180° ref. Input.
Polarity Control: In-phase/Out-of-phase ref. Input.
Low Pass Filters: 4th Order Linkwitz Riley.
Output Impedance: Approx. 100Ω (differential).
Amplifier type: Grounded Source MOSFET based Class A-B, convection cooled.
Output Power: 300W in to 8Ω.
THD+N: <0.003%/-90dB, at 100Hz, 300W into 8Ω over 90kHz bandwidth.
Frequency Response: <2Hz (-3dB) – 320Hz (-6dB, set by panel-controlled LP filter).
Limiter: ATC Active FET Momentary Gain Reduction, active limiter indicated on front panel.
Electronic Amp Protection: Amplifier D.C Offset and over-temperature (both indicated on rear panel).
Power Consumption: Idle 16W/60VA, 1/8th Power 170W/230VA, Full Power 500W / 600VA.
Mains Input: 220-230V, 115V – Factory set. Please observe panel markings and labels.
Heat Output: Idle 478 BTU/hr; 1/8th Power 458.9 BTU/hr; Full Power 682.4 BTU/hr.
Additional: Mute via ¼"/6.35mm Jack socket, controlled via latching footswitch.

Physical specifications

See following page.

ATC reserve the right to change specifications without prior notice
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R1-300 PRO (REMOTE AMP)

Front View:

- Overall Width: $19\frac{5}{8}"$ (498 mm)
- Overall Height: $24\frac{13}{16}"$ (630 mm)
- Speaker Diameter: $10\frac{1}{16}"$ (255 mm)
- Mounting Hole Pattern: $9\frac{15}{16}"$ (252 mm) square

Side View:

- Overall Depth: $20\frac{3}{8}"$ (518 mm)

Rear View:

- Overall Width: $19"$ (483 mm)
- Overall Height: $12\frac{11}{16}"$ (322 mm)
- Mounting Hole Pattern: $7\frac{7}{8}"$ (200 mm) square
- Clearance for Cable: 25mm / 1"

Top View (Rear Panel):

- Power/Clip LED Output: 5-PIN XLR
- Speaker Level Output: NL4
- Clearance for Connectors & Cable: 90mm / 3.5"
- Mounting Hole Pattern: $4\frac{15}{16}"$ (126 mm) square

Bottom View (Front Panel):

- Power/Clip and Mute LED Input: 5-PIN XLR
- Speaker Level Input: NL4
- Recessed Input Connector Dish: $6\frac{15}{16}"$ (177 mm) diameter