

Technical Specifications amp one

Inputs (notes 1, 4)

Input	High-impedance instrument input Mono jack, ¼" (6.35 mm) Sensitivity: 21 mV (-34 dBV) Impedance: 1 Megohm Equivalent input noise: 1.4 µV (-117 dBV), A-weighted high / low switch: 10 dB attenuation clip indicator: 8 dB headroom
aux in	Stereo jack, ¼" (6.35 mm) L + R mixed and added pre master, but after tone controls. Level control. Sensitivity: 2 x 170 mV (-15 dBV) Impedance: 22 k (each channel)
return	Return for external, parallel effect loop Mono jack socket, ¼" (6.35 mm) Sensitivity: 360 mV (-9 dBV) Impedance: 10 k

Outputs (note 2)

headphones	Headphones output. When connected, internal speaker is muted. Stereo jack, ¼" (6.35 mm) Output power: max. 100 mW into 32 ohms Input sensitivity for 2 x 50 mW / 32 ohms: 25 mV (-32 dBV) at instrument input <u>For stereo headphones only. Connecting mono plugs causes overload and may damage the amp.</u>
line out	Preamp output, post master (note 6) Mono jack, ¼" (6.35 mm) Output voltage: 1.9 V (+6 dBV)
sub out	Subwoofer output without filter Mono jack, ¼" (6.35 mm) Output voltage: 1.9 V (+6 dBV)
send	Send for parallel effect loop Mono jack, ¼" (6.35 mm) Output voltage: 760 mV (-2 dBV)
tuner	Tuner output, not affected by mute Mono jack, ¼" (6.35 mm) Output voltage: 800 mV (-2 dBV)
DI out	Balanced XLR output, pre-master, switchable pre or post tone controls / effect / aux (note 6). Output voltage (adjustable): 33...330 mV (-30 dBV ... -10 dBV)

Insert points

Insert pre eq	Insert loop before tone controls and compressor Stereo jack, ¼" (6.35 mm) Output voltage: 800 mV (-2 dBV) tip = send, ring = return
Insert post eq	Insert loop after tone controls Stereo jack, ¼" (6.35 mm) Output voltage: 760 mV (-2 dBV) tip = send, ring = return

Footswitch connections

footswitch	Stereo jack, ¼" for dual footswitch tip = switch for input muting ring = on/off switch for external effect loop (send and return) sleeve = common (ground) mute switch disabled when footswitch is plugged in
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Tone controls

colour	-1 dB at 360 Hz, +14 dB at 3.8 kHz
bass	+9 dB at 80 Hz
bass boost	+10 dB at 55 Hz
middle	+15 dB at 200...2000 Hz (adjustable) Bandwidth (switchable, note 3): wide: 1.6 octaves narrow: 0.6 octaves
treble	+12 dB at 6 kHz

tone balance	Flat if intensity is set fully anticlockwise. The following values apply if intensity is set fully clockwise: balance left: +12 dB at 50 Hz balance center: +9 dB at 50 Hz, and +10 dB at 10 kHz balance right: -2 dB at 50 Hz, and +11 dB at 10 kHz (shelf-type frequency response)
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Compressor (note 5)

Characteristics	Soft-knee, RMS-responding, gain reduction
Threshold	≈ 0.25 mV...78 mV (-72 dBV ... -22 dBV) at instrument input
adjustment range	
Ratio adjustment range	1 : 1 ... 5 : 1
RMS Time constant	40 ms
Indicator LED	Lights up at ca. 1 dB gain reduction.

Power

Power amp	200 W / 8 ohms, discrete bipolar transistor output. Dynamic range, A-weighted: 102 dB (note 4)
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Limiter threshold

Analog signal processing	Subsonic filter, low distortion RMS limiter
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Speaker system

Mains power	Mains voltage (depending on model): 100, 120, 230, or 240 V AC, 50-60 Hz Power consumption: max. 500 W
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Mains fuse	5 x 20 mm slow 3.15 A for 230 and 240 V models slow 6.3 A for 100 and 120 V models
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General

Cabinet	15 mm (0.59") birch plywood
Finish	waterbased acrylic, black spatter finish
Dimensions	325 mm (12.8") high 375 mm (14.8") wide 295 mm (11.6") deep
Weight	13.5 kg (29.8 lbs)

- Notes:
- Input sensitivities refer to 160 watts into 8 ohms at full gain and volume settings, neutral tone control settings (**intensity** fully anticlockwise), and 1 kHz sine-wave test signal.
 - Output levels refer to -25dBV (56.2 mV) / 1 kHz at instrument input, unless stated otherwise.
Earlier models have a **DI out** adjustable down to zero.
 - Bandwidth of tone controls refers to one-half of gain at center frequency, in decibels. For example, if a tone control has 15 dB center gain, then bandwidth refers to the 7.5 dB points.
 - Equivalent input noise voltage obtained by measuring noise voltage at speaker output and dividing by the voltage gain of the amplifier for white noise. Full gain and volume settings, neutral tone control settings, input shorted, frequency range 20 Hz - 20 kHz.
Dynamic range of power amplifier is defined as ratio of output voltage at limiter threshold to A-weighted noise voltage at **master** volume in zero position.
 - Compressor threshold refers to 1 dB gain reduction and input gain fully clockwise, ratio refers to 20 dB gain reduction. Ratio varies with gain reduction due to soft-knee compression.
 - If required, **aux in** and **return** signals can be disconnected from **DI out** by an internal jumper even in the **post** switch position.
line out can be made master-independent by an internal jumper.
Specifications and appearance subject to change without notice.



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