

PA 1100 E

Integrated Amplifier with digital inputs

Nominal output

Into 4 Ohms 2 x 250 Watts
Into 8 Ohms 2 x 140 Watts

Analogue inputs

5 x high level (RCA)
1 x balanced (XLR)

Outputs

Pre Out
REC Out
Headphone

Digital inputs

2 x SP/DIF 24/192 Coax,
2 x TOSLINK 24/192,
1 x USB-B PCM 384 / DSD 256
optional:
2 x HDMI IN, 1 x HDMI OUT (ARC)

D/A-Converter

PCM up to 32 Bit/384 kHz
DSD up to DSD 256 (11,2 MHz)

Bluetooth streaming APT-X

Phono modules (optional)

for MM or MC

Including remote control

All the sub-assemblies of the PA 1100 E are identical to those of the PA 1000 E, and for this reason it shares exactly the same acoustic performance and characteristics. The sole difference lies in the inputs: one of the PA 1000 E's symmetrical inputs has been replaced by a digital input board. This board operates completely autonomously from the rest of the machine, and separate voltages are fed to its digital and analogue sections. The board is fitted with its own micro-processor which assumes full control of the digital inputs, filters and converter. For this reason it has no influence of any kind on the analogue signal processing and sound qualities of the PA 1100 E.

The digital input board enables many digital sources to be connected directly at very high quality, using either coax or optical inputs. The USB-B input even makes it possible to play very high-resolution files from a PC or via Ethernet / USB bridges such as Roon or NAA, using data rates of up to 384 kSps for PCM and up to DSD 256.

The high-quality Bluetooth module provides music transfer from mobile devices at superb APT-X quality, and the BT player can be controlled using the AVRCP protocol.

A further option is the additional installation of an HDMI circuit board featuring two input and one output socket with Audio Return channel for the television set. Sound output is exclusively in stereo.

The digital data are converted into analogue signals to very high standards of quality and resolution by the modern 32-bit converter. A further refinement for PCM data are two different oversampling algorithms: one of them a standard FIR filter, the other the Bezier oversampling developed by T+A, offering outstanding timing and transient handling.

The PA 1100 E can either be controlled directly on the machine itself, or using the FM 11 remote control handset supplied with the machine in conjunction with the E 2000 IR receiver. The latter can be set up anywhere close to the PA 1100 E, and connected to the RC-In socket on the back panel.



The PA 1100 E provides five high-quality inputs which are selected using gold-contact relays; one of these can be set up as XLR input. It is also possible to upgrade IN4 to a phono input using the PHE MM or PHE MC internal modules (earth terminal present). REC OUT and PRE OUT are available. The heavy-duty loudspeaker terminals are gold-plated and contain no ferro-magnetic metals. Five high-resolution digital inputs are available for connecting external digital sources, typically for playing data

from set-top boxes, TVs or PCs. The efficient Bluetooth aerial provides a means of transferring data from mobile devices. An optional HDMI board can be fitted for connecting Blu Ray / SACD players or TV sets. The FM 11 remote control handset and E 2000 IR receiver are included as standard; the E 2000 is connected to the RC IN socket.



Specifications power-amplifier

Nominal output per channel	4 Ohms / 8 Ohms	2 x 250 Watts / 2 x 140 Watts
Peak output per channel	4 Ohms / 8 Ohms	2 x 400 Watts / 2 x 220 Watts
Frequency response	(+0 -3dB)	1 Hz - 60 kHz
THD / Intermodulation		< 0,004 % / < 0,004 %

Specifications preamplifier (PRE, REC)

Frequency response / THD		1 Hz - 300 kHz / 0,0025 %
S/N ratio / Channel separation		108 dBA / > 82 dB

Analogue inputs	5 x RCA 1 x balanced (XLR)	250 mV _{eff} ... 3 V _{eff} / 20 kOhm 500 mV _{eff} ... 6 V _{eff} / 5 kOhm
Outputs	2 x RCA	PRE OUT, REC OUT 2,5 V _{eff} / 50 Ohm; Headphones 6,3 mm plug > 32 Ohms

Digital section (DAC, Inputs)

D/A converter		PCM: 32-bit Sigma Delta, 384 kSps DSD: up to DSD 256 (11,2 MHz) switchable oversampling algorithms: Standard-FIR and T+A Bezier
Digital inputs	2 x SP/DIF coax. 2 x TOSLINK opt. 1 x USB-B 2 x HDMI, 1 x HDMI (ARC)	PCM 32 ... 192 kSps PCM 32 ... 192 kSps PCM 32 ... 384 kSps. DSD 64 ... DSD 256 (MAC-OS up to DSD 128) Stereo: PCM 32 ... 384 kSps, DSD 64 Stereo: PCM 32 ... 384 kSps,

Bluetooth

Optional accessories		plug-in phono module MM, 1 - 5 mV, 16 capacitance values plug-in phono module MC, 60 - 1000 µV, 16 impedance values plug-in HDMI Modul
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Remote control system		FM 11 with E 2000
Mains supply / Standby		220-240 V or 110-120 V, 50-60 Hz, 600 W / < 0,5 Watts
Dimensions (W x H x D) / Weight		44 x 11,5 x 38 cm (17,3 x 4,5 x 15 inch) / 14 kg (31 lbs)