

Integrated amplifier - PULSAR PA 1520 R



The **PA 1520 R** integrated amplifier is a logical development based on the sub-assemblies employed in the R-series pre-amplifiers and power amplifiers. For this reason it sounds exactly the same, and features exactly the same facilities as the individual units on which it is founded. This design philosophy makes it, like its predecessor the **PA 1500**, one of the best integrated amplifiers of its class on the market in terms of test results and verdicts. Even the mechanical construction is thought through right to the smallest detail; for example, the large heat-sink acts as an efficient shield, screening the sensitive pre-amplifier section from the mains power supply and the output stage. The **PA 1520 R** combines the technology of the **A 1520 R** power amplifier and the **P 1220 R** pre-amplifier, and as a result features all the outstanding qualities of two units which have been universally praised. Its sound qualities are no less impressive.

Connection elements

GND	The ground lead from an analogue disc player is connected here in order to avoid hum.
TUNER	Input sockets for connecting high-level signal sources such as tuner.
CD	Input sockets for connecting high-level signal sources such as CD player.
AUX 1	General-purpose pre-amplifier inputs with an input sensitivity of 250 mV / 20 kOhm.
AUX 2/ Phono	General purpose pre-amplifier input with an input sensitivity of 250 mV / 20 kOhm. If an MM or MC phono module is fitted then AUX 2 is the phono input. With MM phono module: Input socket for disc players with moving magnet (MM) cartridge systems. Input capacitance (100 pF ... 500 pF) and input sensitivity (1 mV ... 5 mV) variable by means of switches. Simply set the values closest to those stated by the cartridge manufacturer. With MC phono module: Input socket for disc players with moving coil (MC) cartridge systems. Input impedance (5 Ohm ... 650 Ohm) and input sensitivity (50 uV ... 1000 uV) variable by means of switches. Simply set the values closest to those stated by the cartridge manufacturer.
AUX 3	General-purpose pre-amplifier input with an input sensitivity of 250 mV / 20 kOhm.
TAPE 1	Input and output sockets for connecting devices which can record and play back (recorders).
TAPE 2	Input and output sockets for connecting devices which can record and play back (recorders). The input is equipped with an input buffer to be connected to source units with high output impedance (>1kOhm).
TV	Input sockets for connecting high-level signal sources such as TV or

	VCR. The input is equipped with an input buffer to be connected to source units with high output impedance (>1kOhm).
PRE	Variable asymmetrical pre-amplifier output fitted with cinch sockets. As this is a very low impedance output it is suitable for long leads (e.g. to connect active speakers).
SPEAKER A + B	Two pairs of loudspeakers can be connected to the amplifier (SPEAKER A and SPEAKER B). The impedance of each speaker must not be lower than 4 Ohm (DIN rating).
RC-IN	Input socket for the E 2000 remote control receiver.
RC-OUT	The remote control signals are transferred to the source devices via the remote control leads RZ 001 , which are plugged into the RC-OUT sockets.
RLink	Control output – preparation to control futur " R "-system components with extendend functions. A software update may be necessary.
TASI	Connection to T+A Surround decoder.

Specifications

Pre-amplifier

Frequency response + 0 – 3 dB 0,5 Hz – 400 kHz

Signal: noise ratios (A-weighted)

High level 8 x 104 / 109 dB

Phono MM 82 / 86 dB (Non-standard version)

MC 78 / 82 dB (Non-standard version)

Sub-sonic filter fixed (Non-standard version)

Total harmonic distortion < 0,001 %

Intermodulation < 0,001 %

Channel separation > 90 dB

Nominal input sensitivity

High level 250 mV / 20 kOhms

MM 1 – 5 mV

16 capacitances

MC 60 – 1000 uV

16 impedances

Outputs

Headphones 50 Ohms

2 x Tape 250 mV / 100 Ohms

PRE out Cinch nominal 1 V eff

max. 9,5 V eff

Impedance 22 Ohms

Dolby surround interface with fixed level (TASI) present

Output stage

Nominal output 8 Ohms 180 Watts

per channel 4 Ohms 260 Watts

Peak output 8 Ohms 200 Watts

4 Ohms 300 Watts

Power bandwidth 1 Hz – 300 kHz

<i>Frequency response + 0 – 3 dB</i>	1 Hz – 400 kHz
<i>Slew rate</i>	60 V/us
<i>Damping factor</i>	> 500
<i>Signal: noise ratio (A weighted)</i>	> 110 dB
<i>Total harmonic distortion</i>	< 0,002 %
<i>Reservoir capacity</i>	80000 uF
<i>Mains supply 110 V or 220 / 240 V, 50 Hz</i>	650 VA
<i>Dimensions</i>	15 x 44 x 39 cm
<i>Weight</i>	18,5 kg
<i>Colours</i>	Black (9005), silver aluminium, chrome (Non-standard version)
<i>Remote control</i>	(Non-standard version)
	Phonomodul replaces one HP-input

We reserve the right to alter technical specifications.