# Integrated amplifier - PULSAR PA 1220 R



The **PA 1220 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. The large heat-sink acts as an efficient shield, screening the sensitive pre-amplifier section from the mains power supply and the output stage. This compact unit combines the technology of the **A 1220 R** power amplifier and the **P 1220 R** pre-amplifier. To protect the amplifier and the speakers connected to it an electronic circuit monitors the signals in the amplifier. This protective circuit is not located in the signal path, so it has absolutely no influence of any kind on the sound image. The circuit monitors the input signal before the output stage, and compares it with the output signal. If the slightest deviation occurs (clipping, distortion etc.) the circuit switches off the output relays. The protective circuit also trips if the outputs are shorted, or if the unit overheats.

#### Connection elements



| GND | The ground lead from an analogue d | lisc player is connected here in  |
|-----|------------------------------------|-----------------------------------|
|     |                                    | nee prayer to controlled there 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  $k\Omega$  .

AUX 2 General purpose pre-amplifier input with an input sensitivity of 250

mV / 20 k $\Omega$  . If an  $\underline{MM}$  or  $\underline{MC}$  phono module is fitted then  $\underline{AUX}$  2 is the

phono input.

With MM phono module: Input socket for disc players with moving magnet (MM) cartridge systems. Input capacitance (100 pF  $\dots$  500 pF) and input sensitivity (1 mV  $\dots$  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  $\Omega$  ... 650  $\Omega$ ) and input sensitivity (50 uV ... 1000 uV) variable by means of switches. Simply set the values closest to those stated by the cartridge

manufacturer.

**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

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T+A - Produktarchiv PA 1220 R

The input is equipped with an input buffer to be connected to source

units with high output impedance (>1k $\Omega$ ).

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 (>1  $k\Omega$ ).

**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

**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 87 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 100 Watts

per channel 4 Ohms 140 Watts

Peak output 8 Ohms 180 Watts

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T+A - Produktarchiv PA 1220 R

Power bandwidth 1 Hz – 300 kHz

Frequency response + 0 – 3 dB 1 Hz – 400 kHz

Slew rate 60 V/us

Damping factor > 500

Signal: noise ratio (A weighted) > 110 dB

Total harmonic distortion < 0,002 %

Reservoir capacity 50000 uF

Mains supply 110 V or 220 / 240 V, 50 Hz 300 VA

Dimensions 7,5 x 44 x 39 cm

Weight 11 kg

Colours Black (9005), silver aluminium,

chrome (Non-standard version)

Remote control (Non-standard version)

Phono module replaces one high-

level input

We reserve the right to alter technical specifications.

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