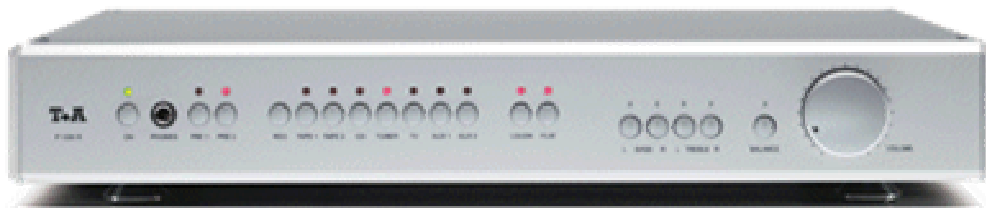


Analogue pre-amplifier - PULSAR P 1220 R



The P 1220 R is a great secret known to all. No other pre-amplifier has ever been selected as Product of the Year so often by readers of the specialist Hi-Fi magazines. The P 1220 R supplies simply outstanding sound and superb measured results, and this is due to the overall design and construction of the unit. The sonic qualities and technical characteristics are optimised by the use of double-sided conductor boards with Powerplan, close-tolerance components (FKP capacitors, high-quality op-amps, metal film resistors, and much more). The signal paths are kept short, and even at the input selector switch they are optimised in such a way that conductor inductivity, capacitance and overload margins are pushed to the very limit of what is measurable. Gas-tight gold-contact relays are employed to switch the source devices, in order to ensure freedom from harmonic distortion and background noise.

Connection elements



GND	The ground lead from an analogue disc player is connected here in order to avoid hum.
CD	Input sockets for connecting high-level signal sources such as CD player.
TUNER	Input sockets for connecting high-level signal sources such as tuner.
AUX 1	General-purpose pre-amplifier input with an input sensitivity of 250 mV / 20 kOhm.
AUX 2	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.
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 (>1 kΩ).
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 kΩ).
PRE 1	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).
PRE 2	With optional XLR module: Symmetrical output (XLR or TRIAX) for connecting active speakers or mono-blocks. A symmetrical connection is ideal for use with very long leads since it has inherently good interference

	rejection characteristics.
TASI	Connection to T+A Surround decoder.
CTRL	With optional remote control module: Remote control output to control a T+A amplifier via remote control lead RZ 001
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.

Specifications

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

Signal: noise ratio (A-weighted)

High level 7 x 107 / 112 dB

Phono MM 83 / 87 dB (Non-standard version)

MC 79 / 82 dB (Non-standard version)

Subsonic 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 (Non-standard version)

MC 60 – 1000 uV

16 impedances (Non-standard version)

Outputs

Headphones 50 Ohms

2 x Tape 250 mV / 100 Ohms

PRE out Cinch nominal 1 V eff

Cinch max. 9,5 V eff

Impedance 22 Ohms

PRE out XLR nominal 1,45 V eff (Non-standard version)

max. 19,6 V eff (Non-standard version)

Impedance 22 Ohms (Non-standard version)

Dolby Surround interface present

Reservoir capacity 10000 uF

Mains supply 110 V or 220 / 240 V, 50 Hz 30 VA

Dimensions 7,5 x 44 x 39 cm

Weight 7 kg

Colours Black (9005), silver aluminium, chrome

Remote control (Non-standard version)

Phono module replaces one high-level input

We reserve the right to alter technical specifications.