Receiver - PULSAR R 1520 R



The **R 1520 R** is the sum of two superb individual components: the **PA 1520 R** integrated amplifier and the **T 1210 R** tuner. The double-sided circuit board of the tuner section incorporates SMT technology to produce a miracle of miniaturisation, and its extremely short signal paths are responsible for the simply outstanding RF characteristics. The sound qualities and measured values of the amplifier section are identical to those of the **PA 1520 R**, and that amplifier's enormous output power is present in full. In all R-series devices T+A deliberately uses the same overall technology and design philosophy, with the result that all our products feature very similar sound qualities. A good example of this is the presence of our sophisticated **ICA technology** and push-pull class A mirror current stages in our receivers as well as our pure amplifiers.

Like the other control units of the R-series the **R 1520 R** is also equipped with a <u>TASI</u> interface, which makes it straightforward to connect a T+A digital decoder and thereby expand your Hi-Fi system into a surround system.

Connection elements



GND The ground lead from an analogue disc player is connected here in

order to avoid hum.

FM-ANT The **R 1520 R** is fitted with a 75 Ohm antenna input labelled **FM ANT**,

which is designed to match a standard domestic antenna and cable

input.

CD Input for connection to the digital output of a CD mechanism.

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 **m**oving **m**agnet (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:

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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 kXθΥ.

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).

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

TV

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

Signal: noise ratios (A-weighted)

High level 7 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

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Output stage

Nominal output 8 Ohms 170 Watts

per channel 4 Ohms 280 Watts

Peak output 8 Ohms 185 Watts

4 Ohms 340 Watts

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 80000 uF

Mains supply 110 V or 220 / 240 V, 50 Hz 650 VA

Dimensions 15 x 44 x 39 cm

Weight 18,5 kg

Colours Black (9005), silver aluminium,

chrome (Non-standard version)

Remote control (Non-standard version)

Phono module replaces one high-level

input

Tuner

Tuning range FM 87,5 – 108 MHz

Sensitivity

mono, S/N = 26 dB 0,9 uV

stereo, S/N = 46 dB 28 uV

Overload margin > 110 dB

Attenuator (local, DX) dynamic switchable

Tuned RF stages 4 x quartz PLL, digital

Selectivity, (df = 300 kHz) N/W 80 dB/60 dB

Stereo crosstalk attenuation (1 kHz) > 40 dB

MPX filter 19 kHz + 38 kHz

Distortion 40 kHz deviation, stereo wide < 0,10%

stereo narrow < 0,15 %

mono narrow < 0,10 %

Signal: noise (A-weighted) m/s > 79 dB / 72 dB

Frequency response -/+ 1,5 dB 5 Hz - 15 kHz

RDS display Station name

Remote control Via R system

We reserve the right to alter technical specifications.

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