Receiver - PULSAR R 1220 R



The **R 1220 R** is the perfect symbiosis of two superb individual components: the **PA 1220 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 1220 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.

Connection elements

GND	The ground lead from an analogue disc player is connected here in order to avoid hum.	
FM-ANT	The R 1220 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 / Phono	General purpose pre-amplifier input with an input sensitivity of 250 mV / 20 k Ω . If an <u>MM</u> or <u>MC</u> 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: Input socket for disc players with m oving c oil (MC) cartridge systems. Input socket for disc players with m oving c oil (MC) cartridge systems. Input impedance (5 Ω 650 Ω) 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 play back (recorders). The input is equipped with an input buffer to be connected to source units with high output impedance (>1kOhm).	
τν	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.	

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SPEAKER A + B	As this is a very low impedance output it is suitable for long leads (e.g. to connect active speakers). 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 RC-OUT	Input socket for the E 2000 remote control receiver. 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 TASI	Control output – preparation to control futur "R "-system components with extendend functions. A software update may be necessary. Connection to T+A Surround decoder.		
Specifications Pre-amplifier			
-	equency response + 0 – 3 dB	0,5 Hz – 400 kHz	
ت Signal: noise ratio		$0, 0 \in \mathbf{H} \mathbf{Z} = \mathbf{T} 0 0 \in \mathbf{H} 1 \mathbf{Z}$	
Signal. Hoise ratio	,	4 × 104 / 100 dD	
	High level Phono MM		
	нопо мм МС	82 / 86 dB (Non-standard version) 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 ser			
	-	250 mV / 20 kOhms	
	•	1 – 5 mV	
		16 capacitances	
	МС	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 in	terface with fixed level (TASI)	present	
Output stage			
	Nominal output 8 Ohms	100 Watts	
	per channel 4 Ohms	150 Watts	
	Peak output 8 Ohms	150 Watts	
	4 Ohms	290 Watts	
	Power bandwidth	1 Hz – 300 kHz	
Fr	equency 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	
Tuner		
Tuning range <u>FM</u>	87,5 – 108 MHz	
Sensitivity		
mono, S/N = 26 dB	0,9 uV	
stereo, S/N = 46 dB	28 uV	
Overload margin	> 110 dB	
<u>Attenuator (</u> 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	
<u>RDS</u> display	Station name	
Remote control	Via R system	
We reserve the right to alter technical specifications		