5.1 Digitaldecoder - PULSAR DD 1210 R



The T+A DD 1210 R and DD 1510 R digital decoders are the most complex pieces of equipment which the company has developed to date. In addition to a high-quality digital decoder these machines incorporate three additional high-end output stages and a complete studio-standard video signal processing section. T+A pursues the philosophy of integrating the surround components into a high-end Hi-Fi system without allowing any compromises in quality. Our pre-, integrated and power amplifiers are equipped with a special interface which only loops the decoder into the signal path when surround mode is selected; the circuit switching is carried out by relay. In other circumstances the surround and video sections have absolutely no influence on the system, and therefore are incapable of causing a deterioration in sound quality.

The decoding processes are entrusted to a modern 24-bit signal processor working at 96 kHz. The implementation gives the system an enormous advantage by making it future-proof to a high degree, since the software can be updated at any time. For example, an upgrade to a 6.1 process would certainly be possible.

At present the decoder can process Dolby Digital (AC-3) and DTS, plus Dolby ProLogic and supplementary spatial simulations. MPEG-2 can be implemented if required.

The output stages for the centre channel and the rear loudspeakers are identical to those used in the high-end R-series A 1220 and A 1520 power amplifiers, and this guarantees that the sound quality from all the channels is of uniformly high quality. These output stages offer enormous reserves of power, making them ideal for reproducing the full frequency spectrum.

Both decoders provide a huge range of connection facilities. We have concentrated on the RGB format in the interests of obtaining best-possible picture quality. This means that we have basically developed the unit for the SCART norm, which is widespread in Europe. The result is that our decoders achieve a uniquely high standard of picture quality even when connected to many components. Even when all the inputs and outputs are occupied, the system is easy and logical to operate once the initial programming process has been completed.

* Dolby-Digital und Pro-Logic sind eingetragene Warenzeichen der Dolby Laboratories Licensing Corporation

Connection elements



Digital Input

3 inputs for digital source devices with co-ax digital outputs can be assigned to any picture input, or used as independent sound inputs for source devices which do not supply a picture.

5.1 Input 5.1 Output TASI	 2 inputs for digital source devices with optical digital outputs can be assigned to any picture input, or used as independent sound inputs for source devices which do not supply a picture. Input for a surround source with integral decoder. Output for external loudspeakers or external power amplifiers. Interface for connecting the decoder to a T+A 'R'-series pre-amplifier, integrated amplifier or receiver. The interface automatically switches to surround mode. In this mode the volume and tone controls of the stereo pre-amplifier are disabled, as these functions are now assumed by the decoder.
Subwoofer Input	The stereo pre-amplifier output can be connected to this socket in order to pass its output signal through to the sub-woofer in stereo mode.
Subwoofer Output	Output for connecting an active sub-woofer.
Rear	The rear surround speakers are connected to these terminals.
Center	The centre loudspeaker, located at front centre between the main speakers, is connected to these terminals.
AV-AUX (Chinch)	Stereo sound input and video input for connecting an additional AV source device.
VCR (Scart)	Input / output socket for connecting a video recorder with SCART socket
Settopbox (Scart)	Input socket for connecting a set-top box with SCART socket
DVD (Scart)	Input socket for connecting a DVD player with SCART socket
TV-Output (Scart)	Input / output socket for connecting a TV set with SCART socket
R-Link	Control interface for connection to a T+A amplifier with R LINK control system.

Specifications

3-Chanel amplifier with 5.1 digital-decoder

Analogue inputs	500 mV / 20 kOhm
Digital inputs	4 x SP/DIF 44.1 kHz and 48 kHz
D/A converter	1 Hz 22 kHz
Signal : noise ratio (un-weighted)	> 103 dB
eff system dynamic range	> 94 dB
Channel separation Volume control Tone controls	
Operating modes	Dolby Prologic, Dolby Digital (AC 3), dts Digital Surround * Manufactured under licence to Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential, unpublished documents. © 1992-1997 Dolby Laboratories. All rights reserved. "dts" is a trademark of Digital Theater Systems, Inc.
Sound fields	Stadion, Jazzclub, Oper, Bühne, Halle

Output stage

Nominal power per chanel 4 ohm 100 W

8 ohm80 WPeak power per chanel 4 ohm200 W8 ohm160 WPower bandwith (+0 -3dB)1 Hz ... 300 kHzSlew rate60 V / usDamping factor> 100Signal : noise ratio (A-weighted)> 110 dBTotal harmonic distortion< 0.002 %</td>ColorsBlack (RAL 9005)
Alu silber
chrome (Non-standard version)Remote controlvia R-System

We reserve the right to alter technical specifications