

5.1 Digitaldecoder - PULSAR DD 1510 R



The **DD 1210 R** and **DD 1510 R** digital decoders are the most complex devices ever to be built by T+A. They contain not only a high-quality digital decoder but also 3 genuine high-end power output stages and a complete, studio-standard video signal processing section. Here at T+A we subscribe to the philosophy of integrating the surround components into high-end Hi-Fi systems without admitting any compromises in terms of quality. Our pre-amplifiers, integrated amplifiers and power amplifiers are fitted with a special interface which employs relays to loop the decoder into the signal path only when surround mode is selected. In other modes the surround and video sections are out of circuit, and therefore cannot possibly have any adverse effect on sound quality.

The decoding task is carried out by a modern 24-bit signal processor operating at 96 kHz. This offers enormous advantages in terms of future developments, as the software can be updated at any time. It would even be possible to upgrade the system to cope with a 6.1 process.

At present Dolby ProLogic and additional room simulations can be generated in addition to the usual Dolby Digital (AC-3) and DTS. If necessary MPEG-2 can be activated.

The output stages employed for the centre channel and rear speakers are identical to the high-end output stages used in the R-series **A 1220** and **A 1520** power amplifiers, and this arrangement guarantees that the sound quality will be exemplary and identical on all channels. The power reserves of these stages are enormous, and they are ideal for reproducing the full frequency spectrum.

The connection facilities provided by this unit are truly comprehensive. We have opted for the RGB format, as it undoubtedly provides the best possible picture quality. This means that we have concentrated our development work on the Scart norm which is widespread in Europe. Even when many external devices are connected to our decoders, they still supply uniquely brilliant picture quality. Even when all inputs and outputs are in use, the system is easy and logical to operate once it has been programmed correctly.

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

Specifications:

<i>Principle</i>	3-Chanel amplifier with 5.1 digital-decoder
<i>Analogue inputs</i>	500 mV / 20 kOhm
<i>Digital inputs</i>	4 x SP/DIF 44.1 kHz and 48 kHz
<i>A/D converter</i>	2 Channel, 20 Bit, 48 kHz
<i>D/A converter</i>	6 Channel, 24 Bit, 96 kHz
<i>analogue filter</i>	3rd order, 60 kHz bessel
<i>Decoder typ</i>	56 Bit signal prozessor
<i>Frequency response</i>	1 Hz ... 22 kHz
<i>Total harmonic distortion</i>	< 0.004 %
<i>Signal : noise ratio (A-weighted)</i>	> 106 dB

Signal : noise ratio (un-weighted) > 103 dB

eff system dynamic range > 94 dB

Channel separation > 100 dB

Volume control analogue, 1 dB increments

Tone controls fully digital, channel-separatet

Operating modes Dolby Prologic, Dolby Digital (AC 3), dts Digital Surround

Sound fields Stadion, Jazzclub, Oper, Bühne, Halle

Output stages

Nominal power per chanel 4 ohm 200 W

8 ohm 150 W

Peak power per chanel 4 ohm 250 W

8 ohm 200 W

Power bandwidth (+0 -3dB) 1 Hz ... 300 kHz

Slew rate 60 V / us

Damping factor > 100

Signal : noise ratio (A-weighted) > 110 dB

Total harmonic distortion < 0.002 %

Colours Black (RAL 9005)

Silver aluminium

Chrome * (non-standard version)

Remote control Via R-System

We reserve the rights to alter technical specifications