

7.1 Surroundreceiver - PULSAR SR 1535 R



This surround receiver is another multi-talent from the T+A labs. It was developed for people who appreciate high-end surround, but not at the expense of superb-quality two-channel reproduction. The basis of the set-up is the excellent new [DD 1535 R 7.1 digital-decoder](#) and the [T 1210 R High-end tuner](#). Complemented by two additional output stages of identical construction and a high-quality analogue pre-amplifier of completely new design, the result is a unique surround receiver. Compared with its Far Eastern competitors the case is downright compact, and it was always our intention and direct reflection of our design skill. Nevertheless, the unit can provide a total output of 750 Watts (5 x 150 W), with superb sound quality, immense dynamic range and tremendous stability under load. With its super-quality video connections, the new broad-band board (HDTV), excellent tuner and update facilities to cope with future standards, this receiver is designed for the world! And - of course - we have kept our audiophile customers' requirements in mind. For analogue stereo operation there is a direct analogue mode (High Quality Analogue Stereo Mode), in which the entire digital signal processing of the decoder is switched off and removed from the signal path. And - as you would expect - the unit features separate mains power supplies for the analogue and digital sections.

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* "dts" ist ein Warenzeichen von Digital Theater Systems, Inc.

Connection elements

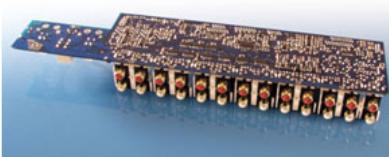


The connection elements of the SR 1535 R

Technical details

The **SR 1535 R** has up to six stacked circuit board levels, well separated and efficiently shielded. Five high-power output stages, each rated at 150 Watts

continuous power, can handle even difficult speakers without problem, and all share one essential characteristic:



they sound great! As does the tuner: in spite of the large number of sub-assemblies it has a sensitivity of just 1.0 µV. Six A/V sources, two of which can be video recorders, can be connected to the Composite or S-Video sockets, and these can even be used in hybrid mode (different norms). This is possible thanks to the sophisticated semi-professional video boards employed, which are capable of converting the video format from Composite to S-Video and vice versa. A further Composite A/V input for a camcorder is available on the front panel. The **SR 1535 R** is fitted with an additional HDTV-capable video board of the highest quality (350 MHz bandwidth), providing four Component inputs for connection to high-resolution picture sources. There are six digital audio inputs (3 x co-ax and 3 x optical, one of them on the front panel) and one set of tape sockets for an analogue or digital recorder. One of the three analogue audio inputs (CD, TV, Phono) even includes a high-quality phono MM input, whose input level can be calibrated automatically to the source devices.

The audio input signals can either be processed in the digital decoder (ProLogic II x, sound fields and Neo:6), or alternatively they can be sent to the output stages by a direct analogue route (High-Quality Analogue Stereo). In the latter case all the digital sub-assemblies are eliminated entirely from the signal path. One 7.1 multi-channel input is available for source devices with an integral decoder, and level management is also provided for this input. The machine includes a wide range of video and audio outputs. Two Composite or S-Video monitors can be connected, and one of them is able to exploit Component video (YUV). Three digital audio outputs, 2 x coax and 1 x optical on the front panel (for fast, straightforward transfer) are also present, as are two standard sub-woofer outputs and one T+A SC-Link sub-woofer output for perfect exploitation of our new range of sub-woofers.

As already mentioned, the **SR 1535 R** features five permanently installed output stages. For 7.1 arrangements you need to connect two additional output stages for the rear loudspeakers (BACK); these can be connected to the outputs marked BACK OUT. One further output is available in the form of the ACTIVE SPEAKER OUT socket; at this output the signal for the front channels is present, and our [TLS 3 A](#) active loudspeakers can therefore be connected here. However, there is another possible use: the output stages assigned to the front channels can be configured to the BACK channels by means of a switch on the underside of the unit. This means that the front channels can be reproduced via the active speakers, while the surround channels are reproduced via the five integral output stages and the loudspeakers connected to them.

Specifications

Typ 5 - channel receiver

7.1 digitaldecoder

AV - Inputs 7 of which 2 recorder

Audio inputs 4 of which 1 recorder

Connections - AV IN

SCART (RGB / S-Video / FBAS)	no
Video (FBAS)	7
S-Video	6
Component (YUV)	4

Connections - AV Recorder OUT

SCART (RGB / S-Video / FBAS)	no
Video (FBAS)	2
S-Video	2
Video signal convert up / down	yes / yes

Connections - AV MONITOR OUT

SCART (RGB / S-Video / FBAS)	no
Video (FBAS)	2
S-Video	2
Component (YUV)	1
Video signal convert up / down	yes / yes

Connections - AUDIO IN

Analogue high level / phono	3 / 1
with audio-calibration	yes
Multi-channel (5.1 / 7.1)	Cinch (7.1)
TASI	no
Digital optical / electrical	3 / 3

Connections - AUDIO RECORDER OUT

Analogue	1
Digital optical / electrical	1 / 2

Connections - AUDIO OUT

Pre-OUT	yes
AS-Link active LS control	yes
Multi-channel output	no
Output for rear output stage	yes
Sub-woofer terminals	3
Variable crossover frequency	yes
SC-Link Sub-woofer control	yes

Digitaldecoder

Formats	7.1
DolbyDigital / EX	yes / yes

dts / ES / ES Discrete	yes / yes / yes
ProLogic II / ProLogic II x / dts NEO:6	yes / yes / yes
Dolby Headphone	yes
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Sound field programs	7
Two-channel sound / Mono	yes / yes
Processor	56 Bit digital audio signal processor
A/D converter	24 Bit / 48 kHz
D/A converter	24 Bit / 192 kHz
Frequency response	1 Hz - 22 kHz
THD	0,004 %
Signal / noise (S/N)	106 dB

Pre-amplifier

Frequency response	1 Hz - 400 kHz
THD	0,002 %
S/N (A)	107 dB
Volume control type / -step	analogue / 1,5 dB-steps

Power amplifiers

No.	5
Nominal output / channel (4 / 8 Ohms)	150 / 110 Watts
Peak output / channel (4 / 8 Ohms)	250 / 170 Watts
Damping factor	> 500
Slewrate	60 V / usec
Reservoir capacity	50000 uF
Mains	115 / 230 V, 50 / 60 Hz
	600 VA

Features

Direct analogue Stereo	yes
2 zones / 2 programs	yes / yes
Video picture for 2. zone	yes
Trigger outputs f. sub-woofer, projektor, ...	3
automatic speaker calibration	yes

Tuner

Sensitivity Mono / Stereo	1,3 / 40 uV
Tuned curcuits	4
S/N (Stereo / Mono)	70 / 75 dB

Frequency response 5 Hz - 15 kHz
THD (Stereo / Mono) 0,15 / 0,10 %
RDS functionen stationname, radiotext
Features Wide / Narrow switching
Attenuator

Miscellaneous

Dimensions (H x B x T) 15 x 44 x 39 cm
Weight 18 kg
Colours Black (RAL 9005)
Silver eloxided aluminium
Chrome (extra-cost option)

We reserve the rights to alter technical specifications