

DVD - Receiver K1 AV



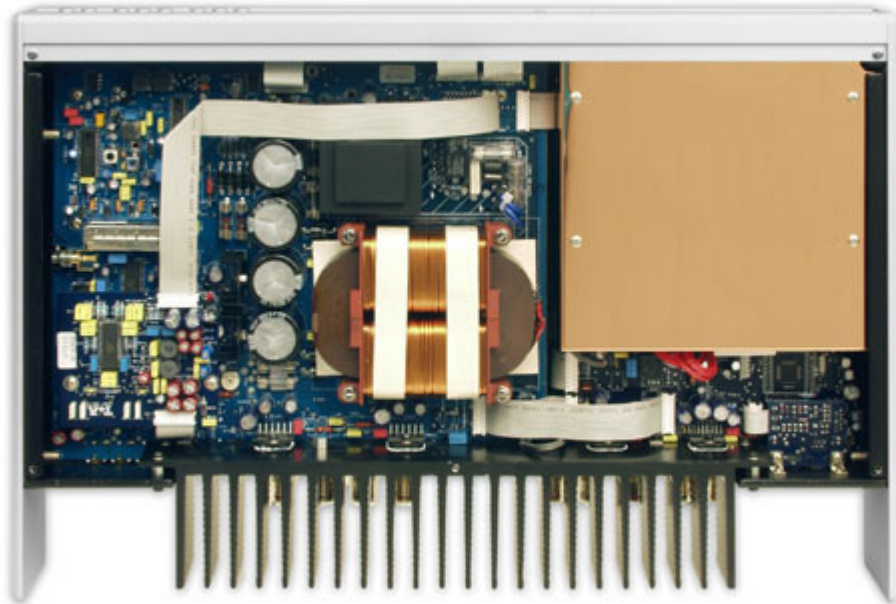
In 1996, when T+A introduced the first K-series CD receivers to the market, these were our most compact units: they really represented compressed High-End equipment from the R-series and M-series. Today this description still applies, so how has it been possible to market equipment for a period of ten years in an area - Entertainment Electronics - which is so notoriously fast-moving? This phenomenal success can be explained by the correctness of the original concept: highest quality materials, superb sound, simple operation and timeless, elegant design. With this in mind, what could be more sensible than to equip the K1 with a high-quality DVD mechanism and an additional output stage, and transform it into the hub of a complete stereo or home cinema system?

The result is the K1 AV. It features an example of the latest generation of CD / DVD mechanisms, enabling it to deliver a wonderful picture in addition to outstanding sound from CD and DVD. The primary loudspeakers and (if required) a centre loudspeaker are fed by three equal-power output stages, each delivering 60 Watts continuous and 100 Watts peak. Particularly with film playback this provides an enormous improvement in spatial imaging and comprehensibility of speech. Various sound formats are available, including three-channel movie and Dolby Virtual Surround, and these can be selected to give a genuine home cinema experience, even without rear speakers.



This is achieved by the K1 AV's splendid sounding analogue room sound matrix - a T+A development - which also controls the exact calibration of the main speakers, the centre speaker and the sub-woofer. Two additional output stages can be used to provide stereo sound to an adjacent room, with separate volume control. The excellent FM tuner delivers marvellous sound quality both from aerial and cable. The features list is impressive: switchable bass extension to cope with different loudspeaker sizes, loudness function, accurate volume, tone and balance controls in dB increments, auxiliary input with switchable sensitivity, tape input and output with monitor function, active sub-woofer output, headphone socket and the sophisticated T+A protective circuit. The integral Scart output is available with various output formats.

K1AV - Highlights and features



- The room processor is of analogue construction and provides superbly natural sound in various operational modes and sound formats, as well as sophisticated bass management when an active sub-woofer is used.
- The ultra-modern AV board fitted with a control processor, 24-bit 192 kHz DA converter and high-speed video op-amps with 150 MHz bandwidth. It is connected directly to the disc mechanism decoder.
- The FM tuner is of the highest quality. It features a quadruple tuned front end with dual-gate MOS input stage, providing very high input sensitivity and selectivity. Reception is outstanding, both at long distance with an aerial and also using the densely occupied cable network.
- The ultra high-capacity mains power supply features a cut band core transformer which is very stable under load.
- The new CD / DVD disc mechanism is housed in a rigid sub-chassis, and is completely shielded in order to prevent high-frequency interference affecting the analogue section.
- The analogue room sound processor is able to generate a huge variety of sound formats.
- Analogue inputs for tape, auxiliary and aerial.
- SP-DIF digital output for Dolby Digital and dts.
- High-quality loudspeaker terminals made of non-magnetic gold-plated brass, and protective insulator.
- The superb-sounding Overture output stages are manufactured from a single silicon mono-crystal, and deliver very high power from such a small component.
- TV Scart output with RGB; switchable YUV.
- Sockets for the remote control receiver in the adjacent room, and the R-Link interface.

Specifications

Amplifier

<i>external inputs</i>	1 V / 20 kOhms	TV via Scart
	1 V / 20 kOhms	Tape
	350 mV - 1 V / 20 kOhm	Aux
<i>outputs</i>	1 V / 150 Ohms	TV via Scart
	1 V / 150 Ohms	Tape
<i>Headphone</i>	1 V / 150 Ohms	f. Headphone > 30 Ohms
<i>Subwoofer</i>	1 V / 50 Ohms	f. active subwoofer

Output power room A

<i>continuous, 4 Ohm</i>	3 x 60 Watt	left, right, center
<i>peak, 4 Ohm</i>	3 x 100 Watt	left, right, center

Output power room B

<i>continuous, 4 Ohms</i>	2 x 20 Watt	left, right
<i>peak, 4 Ohms</i>	2 x 30 Watt	left, right

Total harmonic distortion < 0,02 %

Frequency response 2 Hz - 150 kHz

Dampingfactor > 400

Operation modes Stereo left / right

3-Chanel music left / right / center

3-Chanel movie left / right / center

Sound formats Dolby Virtual Surround (DVD) (1) via 2 (L/R) or 3 (L/C/R)

Bassmanagment full range peaker (large) unlimited

full range speaker (mid) 60 Hz

SAT-speaker 100 Hz

Crossover frequency Subwoofer 40, 60, 100 Hz

Tuner

Reception range FM 87,5 MHz - 108 MHz

Sensitivity Mono / Stereo 0,9 uV / 33 uV

Overload margin > 110 dBuV

Channel seperation > 40 dB

RDS-functions Stationname, radiotext, time

CD / DVD Player

Mechanism Linear drive with dual-layer system (650 + 785 nm)
Subchassis

Discformats

Audio CD, CD-R, CD/RW,
MP3
Hybrid SACD (CD-Layer)
Dual Disc (CD-Layer)

Video DVD-Video (DVD-R, DVD-RW)
VCD, S-VCD

Photo JPEG Picture CD

Video output Composite (FBAS)
RGB, YUV (switchable)
YUV progressive (480p, 576p)

	PAL, NTSC, Multinorm
	PAL/NTSC and NTSC/PAL format conversion
<i>Audio formats</i>	LPCM
	MPEG
	Dolby Digital (1)
	dts (Downmix) (2)
<i>Frequency response</i>	1 Hz - 20 kHz
<i>Total harmonic distortion</i>	< 0,004 %
<i>Digital output (SP-DIF)</i>	coax 0,5 V / 75 Ohm
	LPCM nach IEC 958
	Dolby Digital (AC3) (1)
	dts nach IEC 1937 (2)
<i>Functions</i>	Playback program, repeat function
	CD-Text, MP3 ID3 v2 Display, playlist
	Trick modes (Slow motion, static image)
	Camera angle, zoom
	Photo manager, preview, rotate, Diashow,
	Slide and music show (JPEG + MP3)
	Picture optimization

Special functions

<i>Clock</i>	RDS Funkuhr
<i>Alarm function</i>	wakeup with radio
<i>Sleep-Function</i>	only CD and DVD

Accessory

<i>Remote control</i>	F 6
<i>Cable</i>	Scart a. Mains cable

Sonstiges

<i>Dimensions (H x W x D)</i>	8 x 49 x 32 cm
<i>Weight</i>	10 kg
<i>Surfaces</i>	Alu silver, black, white

Remarks

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