E-Serie - Music-Player
an audiophile music-player

It is a unique device and totally new in every respect, representing the first ever combination of the classic music source CD with other music sources from the world of computers and the Internet. Please note that the MUSIC PLAYER is NOT a computer, but a high-quality audiophile CD player into which additional capabilities have been implanted, enabling it to exploit other digital sources as streaming clients. To achieve this versatility we have developed a processor board which is network-capable, and features W-LAN, LAN, UPnP, and USB interfaces. The result is that the MUSIC PLAYER can access everything which delivers music: Internet radio, network music servers and USB media storage devices, as well as VHF radio via the integral tuner.

We are convinced that the classic CD will remain one of the most important program sources into the fairly distant future. For this reason the CD PLAYER was designed as a pure-bred stereo CD player in the tradition of our legendary disc players. It is fitted with the newly developed High-End loader and the disc mechanism of our 1250 R High-End SACD player. The decoder is a development based on the latest processors, and is designed specifically to provide the highest-possible quality of CD reproduction. The mechanism rotates at a single speed - in contrast to DVD mechanisms which work at significantly higher rotational speeds, and therefore often have problems with out-of-balance CD discs. The disc mechanism unit features high-quality components throughout: heavy-duty motors from MABUCHI, a sub-chassis with good damping characteristics, stainless steel pushrods, metal-ABS laminate disc drawer and full encapsulation in a metal shield. Viewed overall, the CD PLAYER features the most modern and compact disc mechanism / loader design on the world market.
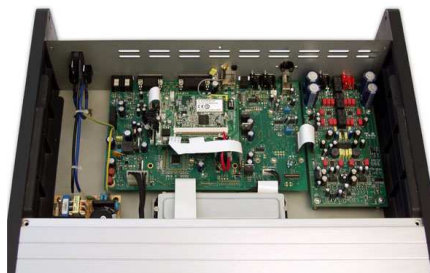
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External connection

The back panel of the MUSIC PLAYER gives some idea of the huge versatility of this unit. High-End analogue outputs (regulated if necessary) are present, as are a jitter-free digital output and two high-quality digital inputs (cinch + optical); the latter can be used for converting the signals from external sources, which means that the extraordinary sound qualities of the MUSIC PLAYER can also be exploited to benefit other devices. The MUSIC PLAYER is supplied complete with the F 100 system remote control handset, which is used to control every aspect of the POWER PLANT. The "E-Link" data bus system has to be connected for this to work.

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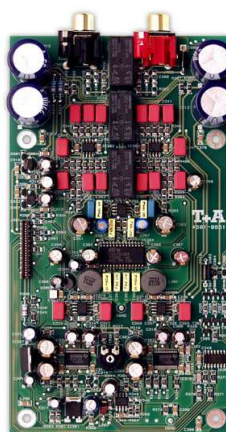
Technical highlights

- Main circuit board with input switching for analogue and digital sources. Newly developed FM tuner with Radiotext and supplementary functions.
- Streaming Client (SCL) provides the connection to Internet radio, all network sources and USB sources.
- High-End analogue output section and converter board, of symmetrical construction, with total separation of the two channels. Switchable volume control and Wide Mode (bandwidth). Double-mono converters with switchable oversampling algorithms.
- High-performance mains power supply with sophisticated voltage stabilisation measures.
- Fully graphics-capable LCD screen displays all system states and functions. Most of the features of the MUSIC PLAYER can also be controlled via the front panel.

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D/A converter

The E-series players are equipped with a D/A converter which is a completely new development; it is of symmetrical construction, with total separation of the two channels. The outstanding feature of our players is their ultra-refined analogue output stages. These offer sound of great beauty, and play a crucial role in the excellent overall quality of reproduction. They process the converted digital sources as well as the analogue sources in the MUSIC PLAYER. If necessary, a high-quality volume and tone control system can be switched into the circuit, permitting direct connection to output stages or active loudspeakers.

The D/A converter section is also of very sophisticated construction. Two of the best converters available are wired in double-mono mode for each channel. This design concept produces outstanding harmonic distortion, signal : noise ratios and dynamics. A special clock recovery circuit ensures perfect jitter characteristics.

As you might expect, this super-converter enables the MUSIC PLAYER to reproduce the digital content of MP3 players and memory cards to a standard of quality which can never

be approached by the source devices themselves with their integral "little converters". This is where we show what is possible with High-End audio technology.

Loader

The High-End loader unit of our R-series disc players was adopted for the E-series players. This unique design incorporates steel pushrods, an aluminium-ABS support plate, a floating-support laser unit and heavy-duty MABUCHI motors.

Hardware / UPnP-Server

PDF DOWNLOAD	Hardware / UPnP-Server compatibility	50 kB

Specifications

Formats

CD-Player	CD, CD-R/RW, CD Text
Streaming Client	MP3, WMA, LPCM, WAV, FLAC, AAC, OGG-Vorbis
supported mediaserver	UPnP 1.1, Microsoft Windows Media Connect Server (WMDRM10), vTuner Internet Radio Service, Music Choice streaming music service
Interfaces	USB, 2 x SP/DIF digital input
Radio	FM Radio 87,5 - 108 MHz

Audio

Analogue outputs	Stereo 2,5 Veff / 22 Ohm
Digital outputs	1 x coax IEC 60958 (CDDA / LPCM)
Digital inputs	2 x SP-Dif (1 x coax, 1 x optical)
D/A - converter	24-bit Sigma Delta, 8-time Oversampling
Frequency response	2 Hz - 20 kHz
Total harmonic distorton	< 0.001 %
Signal / Noise	109 dB
Channel seperation	106 dB
Switchable analogue filter	3rd order phase-linear bessel filter, 60 kHz or 100 kHz
Dimensions (H x W x D)	12 x 44 x 39 cm
Weight	9 kg
Remote control	included
Interface	RS232 for update and control
Finishes	black case with silver side-panels
	silver case with black side-panels

We reserve the right to alter technical specifications

11/09/2009

T+A is introducing a completely new series of electronic units featuring the latest, highly innovative technologies. Our audiophile music source is to be known as the **MUSIC PLAYER**, and is a completely new development.

This is a unique and hugely innovative machine, as it is the first to combine the classic music source of CD with music sources from the world of the computer and the Internet. Please note that the **MUSIC PLAYER** is NOT a computer. It is a high-quality audiophile CD player which has been expanded to provide supplementary capabilities, with the result that it can exploit other digital sources as a streaming client. For this purpose we have developed a network-capable processor board which includes W-Lan, Lan, UPNP, and USB interfaces. As a result the MUSIC PLAYER can access anything which delivers music: Internet radio, network music servers and USB media storage devices and – of course – VHF radio. DAB radio is also available as an option.

We are convinced that the classic CD will remain one of the most important signal sources well into the future. For this reason the MUSIC PLAYER was designed from the outset as a thoroughbred CD player, in the tradition of our legendary disc players, and employs the completely new High-End loader and disc mechanism of our high-end SACD player, the 1250 R. The decoder is a completely new development utilising the latest processors, and is specifically designed to provide the highest possible quality of CD reproduction. The disc mechanism is equipped with components of the highest quality obtainable: heavy-duty Mabuchi motors, a superbly damped sub-chassis, stainless steel pushrods, a laminated metal – ABS disc drawer and an all-metal enclosure for effective shielding.

D/A conversion is carried out by highly-selected Burr Brown converters; these are also employed in the SACD 1250 R, and are acknowledged as the best available. The sophisticated signal processing section with its precision jitter-free oscillator, high-quality audio output with two different, switchable bandwidths, and the high-performance mains section ensure outstanding results in terms of sound quality. A jitter-free digital output is provided, as are two high-quality digital inputs which can be used for converting external sources. In this way other devices can exploit the extraordinary sound quality of the MUSIC PLAYER.

top 🔼

Specifications:

Formats

CD-Player	CD, CD-R/RW, CD Text
Streaming Client	MP3(cbr+vbr), WMA, AAC, FLAC, OGG-Vorbis, WAV
Playlists	PLS, ASX
supported servers	UPnP-AV 1.1und DLNA kompatibele Server,
	Microsoft Windows Media Connect Server (WMDRM10)

Internet Radio Database	vTuner Internet Radio Service
Interfaces	Ethernet 10/100, WLAN802.11/b/g,
	USB, iPod, 2 x SP/DIF Digitaleingang
Radio	FM Radio 87,5 - 108 MHz,
	DAB Radio (Band III, L-Band) optional

Audio data

Analogue outputs	Stereo 2,5 Veff / 22 Ohm
digital outputs	1 x co-axl, 1 optical
	IEC 60958 (CDDA / LPCM)
Digital inputs	2 x SP-Dif
D/A - converter	24-bit, 352,8 kHz Sigma Delta, 8-times oversampling
Frequency response	2 Hz - 20 kHz
Total harmonic distortion	< 0.001 %
Signal / Noice	109 dB
Channel seperation	106 dB
Switchable analogue filters	3 rd order base-linear Bessel filter 60 kHz and 100 kHz

General

Dimensions (H x W x D)	12 x 44 x 39 cm
Weight	9 kg
Remote control	system remote control included
Interface	RS232 for update and control
Finishes	black case with silver end-panels
	silver case with black end-panels

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top