

CALA



CALA®

Stereo Receiver

A large number of highly demanding music enthusiasts still exist who insist on more than just top-quality sound from their stereo system; they also require sophisticated design, excellence of craftsmanship, simplicity of operation and compactness.

These people cannot even contemplate the typical large systems assembled from separate components. Since the 1990's we have catered for this clientèle by pursuing the development of compact receivers based on our enormous expertise in the construction and production of absolute top-quality High End separates. The term receiver refers to a machine based on an integrated amplifier which also incorporates additional signal sources. A system based on a receiver is therefore particularly compact, and T+A has a long and successful tradition in this class of equipment. As early as 1995 we developed the K1, which combined output stages with a FM tuner and CD mechanism.

Our new CALA® receivers enable you to exploit every available music source in exceptional sound quality: Internet radio with Airable Internet Radio Service; three different music services; UPnP; network music servers and USB storage media; FM, FM-HD and DAB+ radio; CD and music from external sources via the SP/DIF inputs. Content on mobile devices can also be streamed at excellent quality using HD Bluetooth, and even reproduction of analogue sources including Phono MM and high output MC is possible. The design of our CALA® receivers is unique, and the machines are built using only the very finest materials. The purist front panel is not disturbed by a single control knob. Every aspect of every function is controlled in a logical and intuitive manner using just the FM1000 IR remote control handset, or the T+A Control App.



CALA[®] SR

Streaming Receiver

Nominal output per channel

into 4 Ohms 2 x 55 Watts

Sources

FM, FM-HD, DAB+,
High-Res Streaming Client
Deezer, qobuz, Tidal,
Bluetooth Streaming

Outputs

Pre-Out
Headphones
Subwoofer

Sound Management

DSP controlled soundfields,
bass management
Virtual Surround
Surround-Pass-Through

The CALA[®] SR is one of our most elegant products. It is designed with the purist in mind, manufactured using only the finest materials available, and equipped with the very latest technology. It is a compact, relatively small multi-talent to which the term “receiver” no longer does justice. In truth it forms the universal command centre of a complete Hi-Fi system. In spite of its small dimensions it contains a fully-featured integrated amplifier with a tremendous range of connection facilities, with powerful output stages capable of superb sound. Our developers have worked the miracle of integrating all the essential music sources into a case which already houses the integrated amplifier function. The CALA[®] SR deliberately eschews a CD mechanism, because many present-day music lovers have replaced the CD with streaming or music services; this philosophy also allows the case to maintain a more compact format. The CALA[®] SR has everything the listener requires for the enjoyment of music: our ultra-modern High-Res streaming client - an in-house development - featuring WLAN, LAN and USB interfaces for hard discs and NAS servers, providing access to music services and Internet radio; a digital tuner of outstanding quality offering DAB+, FM and FM-HD reception; a high-quality Bluetooth receiver module; digital inputs for connecting external sources, and even analogue inputs - one of them with a switchable Phono MM and High output MC preamplifier.



CALA[®] CDR

Streaming CD Receiver

The larger model in the CALA[®] Receiver range is the CALA[®] CDR. From the point of view of overall design philosophy and technical facilities the machine is a close relative of the CALA[®] SR, but it also features a high-quality CD mechanism, output stages with twice the power, and a high-performance mains section. 100 Watts continuous power is available per channel, which is ample for use with large loudspeakers. To accommodate these additional features the case is larger and heavier, but it remains very compact, and maintains the same overall design and proportions as the CALA[®] SR. Since both devices are based on one and the same motherboard, their music sources and connection facilities are also identical.

The machine's high-performance digital signal processor makes it simple and convenient to set it up to suit individual system configurations. For example, it is possible to switch off inputs which are not required, and the sensitivity of one analogue input can be switched to act as a phono MM and High output MC preamplifier. For operation in a surround system the device features a Surround-Pass-Through Mode.

A further feature is a range of sound fields designed to achieve optimum sound quality under a variety of conditions and positions, catering also for relatively small loudspeakers. A bass management system regulates all settings if a subwoofer / satellite system is employed.

Nominal output per channel

into 4 Ohms 2 x 100 Watts

Sources

CD-player
FM, FM-HD, DAB+,
High-Res Streaming Client
Deezer, qobuz, Tidal,
Bluetooth Streaming

Outputs

Pre-Out
Headphones
Subwoofer

Sound Management

DSP controlled soundfields,
bass management
Virtual Surround
Surround-Pass-Through



T+A
Cala SR

Believe

CALA[®]

Ambient Lighting

The new CALA[®] receivers offer even higher levels of style and quality than their predecessors. Not a single control knob disturbs the puristic front panel.

The main case is of solid aluminium construction, and is produced in a single manufacturing process with the help of a complex tool, after which it is glass bead blasted to a fine finish and anodised.

The cover is also made of aluminium, hand-brushed to a refined surface before being anodised to a high-gloss finish. The front panel consists of lustrous black acrylic, and accommodates the large-format graphic screen; the latter displays the data and information in context-sensitive form in various font sizes, and can be dimmed over several levels.

The inner chassis, which supports all the electronics, is also made of aluminium.

If wished, the plinth of CALA[®] receivers can be illuminated, since we have integrated an LED strip light in the rear part of the machine's backplate. For ambient lighting you can choose for between different color modes and white, blue, green and red light, and the intensity of the lighting is user-variable.



Technology

Two analogue and three digital inputs are available, typically for connecting a turntable or TV set, set-top boxes or Blu Ray player.

Access to new music media and services is possible via the LAN socket or the WLAN aerial. The USB port is ideal for connecting hard discs and memory sticks.

Since the integral FM / DAB+ tuner provides very strong reception, it makes sense to connect a high-quality external aerial to it.

The solid metal loudspeaker terminals can accommodate cables of large cross-section, and an active subwoofer output socket is also present.



Streaming Receiver CALA® SR CALA® CDR

For the CALA® receivers T+A has developed an ingenious fully digital design principle which performs the entire signal processing in the digital domain. This provides a crucial improvement in sound quality, since it eliminates the need for the additional conversion of digital sources; all the data processing is carried out consistently in HD audio quality.

The CALA® is a versatile, fully featured receiver with a great performance, and this is only possible through the use of the latest technologies and components. All the audio signal processing is carried out by a high-performance digital signal processor which generates the sound fields for various set-up conditions and virtual surround, controls - where necessary - all the tone settings and cut-off frequencies for the primary loudspeakers and sub-woofer (bass management), processes and controls the output signals for the speaker channels, and converts the two analogue inputs into digital data, so that these can also be

processed digitally. The integral amplifiers are based on high-speed bridged switching output stages with high continuous power and current delivery capacity. Their output is sufficient even for large loudspeakers and spacious listening rooms. A mains section which is very stable under load makes ample energy available at all times. Naturally a sophisticated protective circuit monitors all the machine's operating states.

The connection facilities of both receivers are identical. The analogue input A1 IN can be configured as Surround Pass Through, and the sensitivity of the analogue input A2 IN can be switched, so that it can be used as a phono pre-amplifier for MM and High output MC systems.

One pre-amplifier output and one digital output are also present.

Digital inputs include two optical and one co-ax types. These can be switched off if necessary, in which case they no longer appear in the menu.



T+A has concluded a service contract with the Airable Internet Radio Service company, which enables purchasers of our streaming client products to create individual station lists and favourites lists at no charge; these lists are then made available automatically when Internet radio is selected.

The receivers are controlled using the FM1000 infra-red remote control handset, or - ideally - the T+A Control APP. In contrast to many manufacturers' apps, this is capable of controlling every element of every function of our machines. Not only does it display the information pertaining to the streaming client, but also the screen content of all sources, such as the station name and radio text when used in FM radio mode.

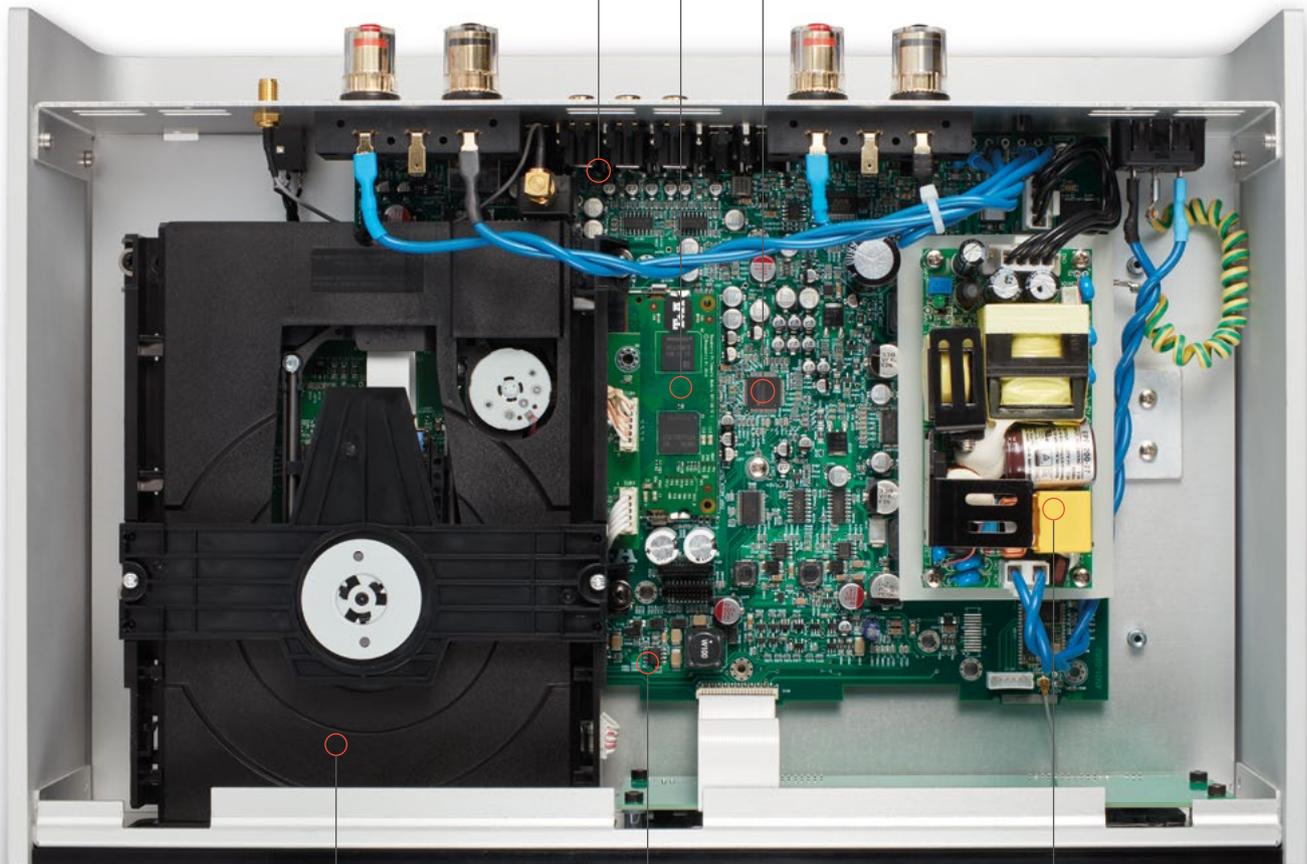


Technology

„State of the Art“ processor and memory board of the new Streaming Client: an in-house T+A development, extremely powerful and future-proof.

Analogue section with preamplifier output, two configurable inputs and phono pre-amp for MM and high output MC cartridges.

All the Audio Signal Processing from the inputs to the output amplifiers is carried out by a high performance 48-Bit signal processor.



High quality CD mechanism incorporating modern decoder technology, offering very fast access times and excellent error correction.

The four-layer Digital Processing Board is of extremely complex design. It accommodates all the digital components for the sources; this is where they are routed and switched.

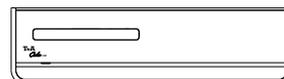
High-performance mains power supply with multiple stabilisation measures. The power amplifiers are mounted below with a heat sink onto the chassis floor .

Specifications

CALA® SR



CALA® CDR



CD-Player		
Formats / Frequency response		CD/DA, CD-R, CD-RW / 2 Hz - 20 kHz/100 dB / CD-Text.
Streaming Client		
Formats	MP3, AAC, OGG-Vorbis, FLAC, WAV, AIFF, ALAC	MP3, AAC, OGG-Vorbis, FLAC, WAV, AIFF, ALAC
Data rates	PCM 32...192 kHz, 16/32 Bit; MP3 up to 320 kBit; constant and variable data rate	PCM 32...192 kHz, 16/32 Bit; MP3 up to 320 kBit; constant and variable data rate
Features	Gapless Playback for MP3 (Lame), WAV, FLAC T+A Control App for iOS and Android	Gapless Playback for MP3 (Lame), WAV, FLAC T+A Control App for iOS and Android
Standards	UPnP AV, T+A Control	UPnP AV, T+A Control
Services	Tidal, Deezer, qobuz (subscription required)	Tidal, Deezer, qobuz (subscription required)
Interface	LAN: Fast Ethernet 10/100 Base-T, WLAN: 802.11 b/g/n with WPS	LAN: Fast Ethernet 10/100 Base-T, WLAN: 802.11 b/g/n with WPS
Bluetooth	A2DP Bluetooth audio protocol AVRCP control MP 3, AAC, SBC	A2DP Bluetooth audio protocol AVRCP control MP 3, AAC, SBC
USB	1 x USB 2.0 Mastermode	2 x USB 2.0 Mastermode
Radios		
Internet Radio	airable Internet Radio Service (> 11000 Stations worldwide)	airable Internet Radio Service (> 11000 Stations worldwide)
FM, FM-HD	87,5 - 108 MHz; Sensitivity 1 µV; S/N > 65dBA	87,5 - 108 MHz; Sensitivity 1 µV; S/N > 65dBA
DAB, DAB+	168 - 240 MHz (Band III); Sensitivity 2,0 µV, S/N > 96 dBA	168 - 240 MHz (Band III); Sensitivity 2,0 µV, S/N > 96 dBA.
Features	RDS/RDBS, Station name (PS), Program type (PTY), Radiotext (RT), Clock	RDS/RDBS, Station name (PS), Program type (PTY), Radiotext (RT), Clock
Amplifier		
Inputs	2 x Aux adjustable sensitivity. Phono and Surround-Pass-Through Mode configurable. SP/DIF: 2x coax (192kHz), 1x TOS-Link (96kHz)	2 x Aux adjustable sensitivity. Phono and Surround-Pass-Through Mode configurable. SP/DIF: 2x coax (192kHz), 1x TOS-Link (96kHz)
Nominal output power / channel	55 Watts into 4 Ohms	100 Watts into 4 Ohms
Distortion	< 0,02 %	< 0,02 %
Sound Management	DSP controlled sound characteristics Virtual Surround	DSP controlled sound characteristics Virtual Surround
Bass Management	Full range, 40 Hz, 60 Hz, 100 Hz, 150 Hz	Full range, 40 Hz, 60 Hz, 100 Hz, 150 Hz
Outputs	Pre-Amp, Subwoofer, Headphone digital IEC 60958 (CDDA/LPCM)	Pre-Amp, Subwoofer, Headphone digital IEC 60958 (CDDA/LPCM)
Mains supply	100 - 240 V, 50 - 60 Hz	100 - 240 V, 50 - 60 Hz
Power consumption	max. 150 W, Eco Standby <0,5 W, Comfort Standby 4 W	max. 200 W, Eco Standby <0,5 W Comfort Standby 4 W
Accessories	IR-Remote control FM1000; WLAN-aerial; power chord, manual	IR-Remote control FM1000; WLAN-aerial; power chord, manual
Dimensions H x W x D / Weight	9,5 x 30 x 21 cm / 5 kg 3,7 x 11,8 x 8,3 inch / 11,2 lb	10,5 x 37 x 24,5 cm / 6kg 4,1 x 14,9 x 8,6 inch / 13,2 lb
Finishes	Case: Alu silver 43 or Alu black 42, Front: Acrylic black 91	Case: Alu silver 43 or Alu black 42, Front: Acrylic black 91



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