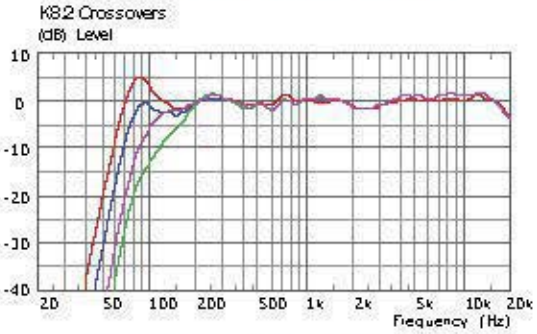
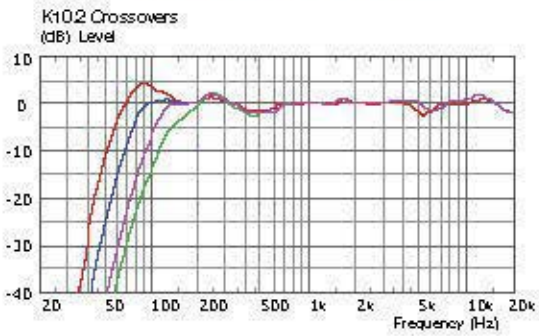
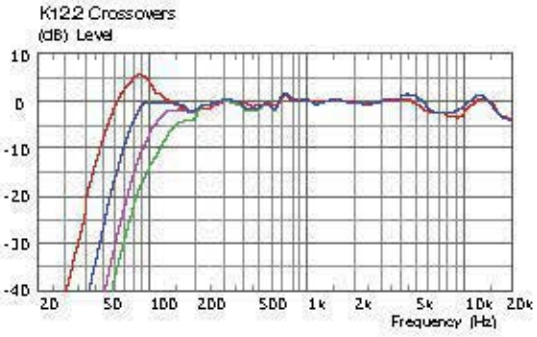
K8.2 On-Axis Frequency Response:



K10.2 On-Axis Frequency Response:



K12.2 On-Axis Frequency Response:



Full Range
80 Hz
100 Hz
125 Hz

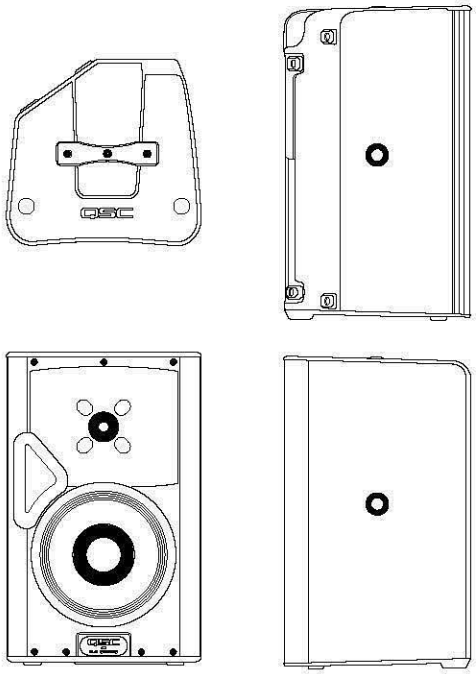
* With default EQ preset.

K12.2 on loudspeaker stand with 7.5 degree down-angle

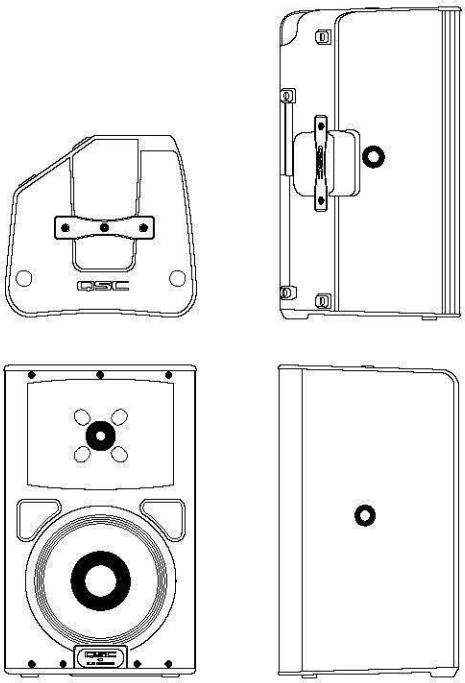
K10.2 shown with Yoke bracket
(coupler sold separately)

K8.2 shown in floor monitor position

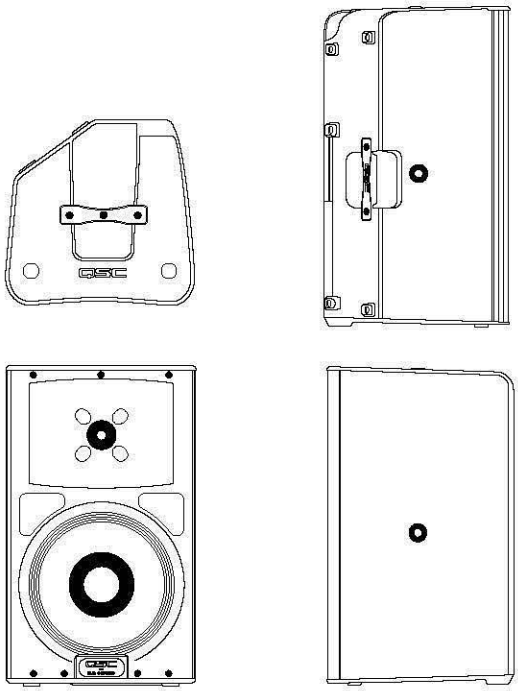
K8.2



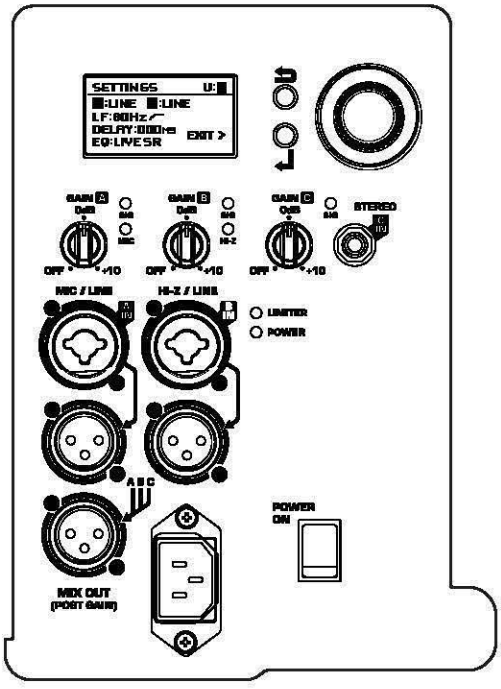
K10.2



K12.2



Back Panel



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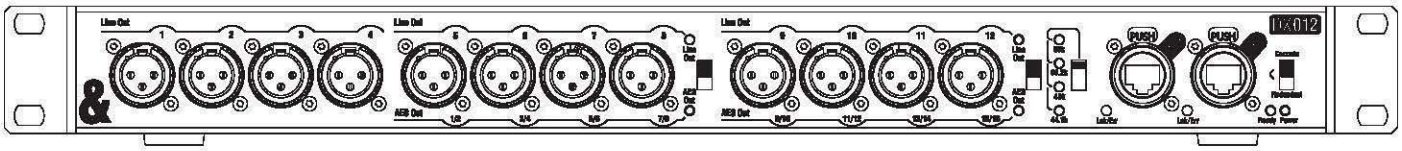
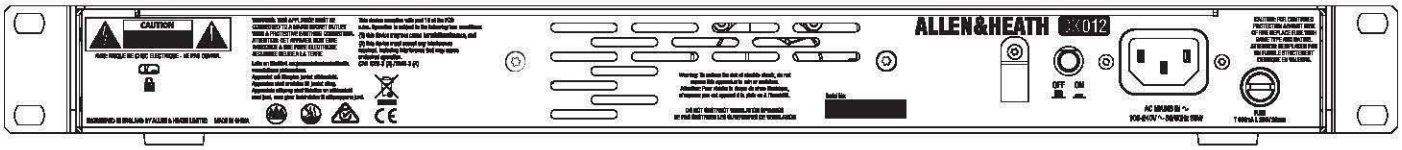
DX012 Technical Datasheet

Overview

- 12 XLR outputs, configurable as
  - 12 analogue
  - 8 analogue + 4 stereo AES
  - 4 analogue + 8 stereo AES
- DX A and B with locking Ethercon ports
- Redundant or cascade mode
- Switchable AES sample rate





A&E Specifications

The unit shall be a 1U rack-mountable remote output device for Allen & Heath mixing systems. The remote audio rack shall provide 12 XLR outputs, configurable as 12 analogue, 8 analogue + 4 stereo AES, or 4 analogue + 8 stereo AES outputs. It shall connect to the mixing system over a single Cat5e cable.

The AES outputs shall be capable of 44.1, 48, 88.2 and 96kHz sampling rate.

Two Ethercon DX connectors shall be provided for transport of the digital audio. The unit shall be able to operate in 'redundant' or 'cascade' mode. In 'redundant' mode the unit shall provide full redundant connection to compatible mixing systems. In 'cascade' mode the unit shall allow series connection of two units.

Unit firmware shall automatically be updated when connected to the digital mixing system.

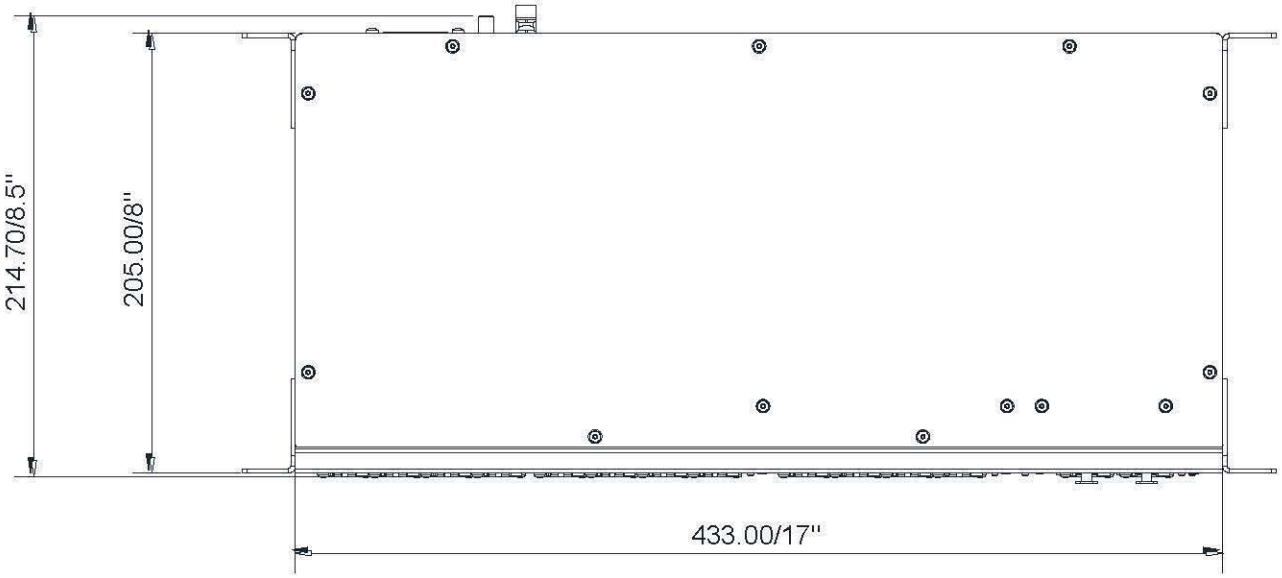
The remote audio rack shall have a built-in power supply accepting AC mains voltages of 100~240V, 50/60 Hz, 35W max via an earthed 3-pin IEC male connector on the rear panel.

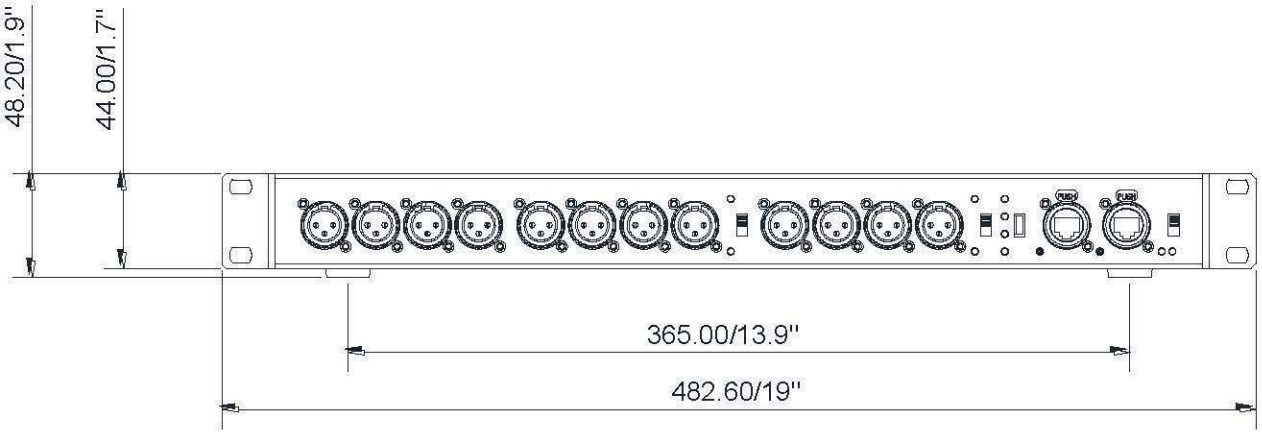
The rack ears shall be detachable and reversible so that the unit can be mounted with either side facing the front of the rack.

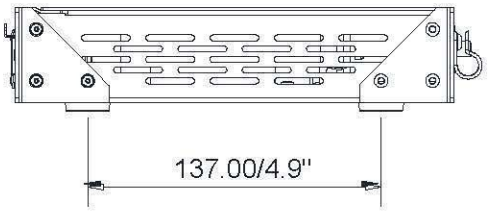
Recommended operating temperature for the remote audio rack shall be 0 to 40 degrees Celsius.

The unit shall be the Allen & Heath DX012.

Dimensions


214.70/8.5"
205.00/8"
433.00/17"


48.20/1.9"
44.00/1.7"
365.00/13.9"
482.60/19"


137.00/4.9"

System Specification

Digital Outputs	AES3 2 Ch XLR, 2.5V balanced, terminated 110Ω
Sample Rate	44.1kHz, 48kHz, 88.2kHz, 96kHz
Analogue XLR Outputs	Balanced, Relay protected
Output Impedance	<60Ω
Nominal Output	+4dBu = 0dB meter reading
Maximum Output Level	+22dBu
Residual Output Noise	-95dBu (22Hz-22kHz)
THD+N	-98dB (0dBu, 1kHz)
Operating Temperature Range	0°C to 40°C (32°F to 104°F)
Power	
Mains Voltage Operating Range	100-240V AC, 50/60Hz
Mains Power Consumption	35W max
Dimensions and Weight	*Width x Depth x Height x Weight*
DX012	482.6 x 48.2 x 214.7 mm x 2.95kg (19" x 1.9" x 8.5" x 6.5lbs)
DX012 (boxed)	600 x 335 x 150 mm x 4.1kg (23.6" x 13.2" x 5.9" x 9lbs)

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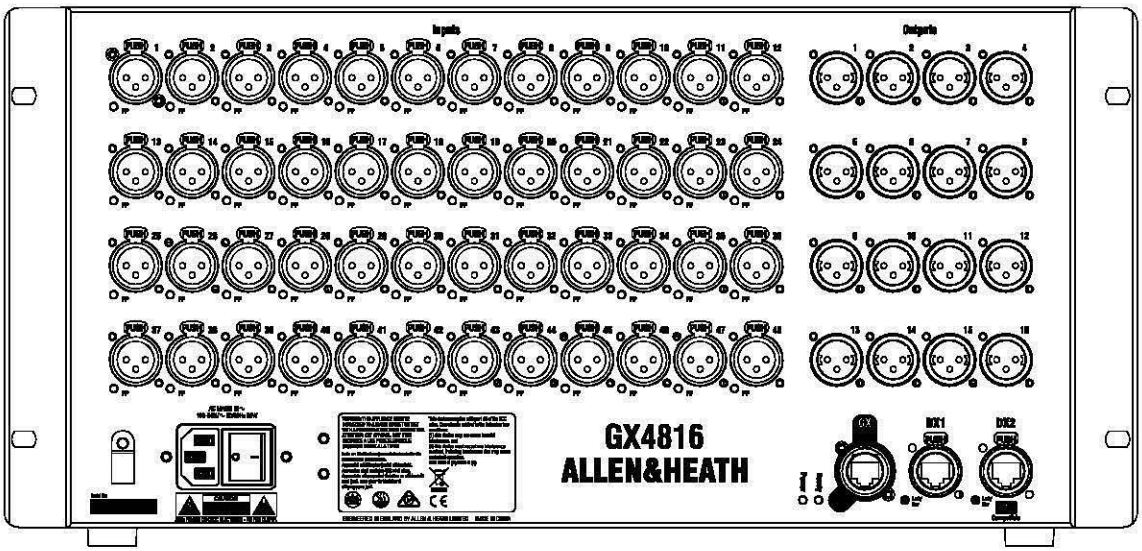
GX4816 Technical Datasheet

Overview

- 48 Mic Preamps on XLR
- Phantom Power LED per Input
- 16 XLR Line Outs
- GX connection with locking Ethercon port
- DX ports for further I/O expansion
- DX 2 port compatible with ME system (Avantis and SQ only)
- 96kHz audio



A&E Specifications

The unit shall be a rack-mountable remote audio device for Allen & Heath mixing systems. The remote audio unit shall provide 48 XLR inputs with individually configured Phantom Power and 16 XLR outputs. Phantom power LED indicators shall be provided per input socket on the remote audio rack. The unit shall work at 96kHz sampling rate.

One Ethercon connector shall be provided for transport of the digital audio and control signals to and from the mixing system, The GX4816 connects to the mixer over a single Cat5e cable. Two further Ethercon connectors shall be provided for further expansion with compatible Allen & Heath remote audio devices. One of these ports shall be compatible with the Allen & Heath ME personal mixing system when the device is used with an Allen & Heath Avantis or SQ digital mixer.

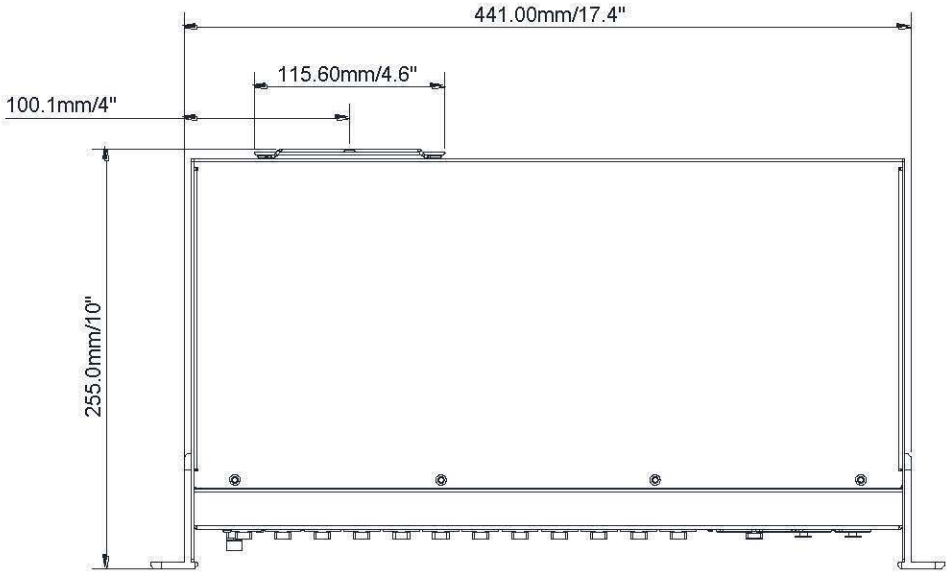
The Ethernet protocol shall provide control to the remote preamp, and all mic preamps shall be recallable by the digital mixing system. Unit firmware shall automatically be updated when connected to the digital mixing system.

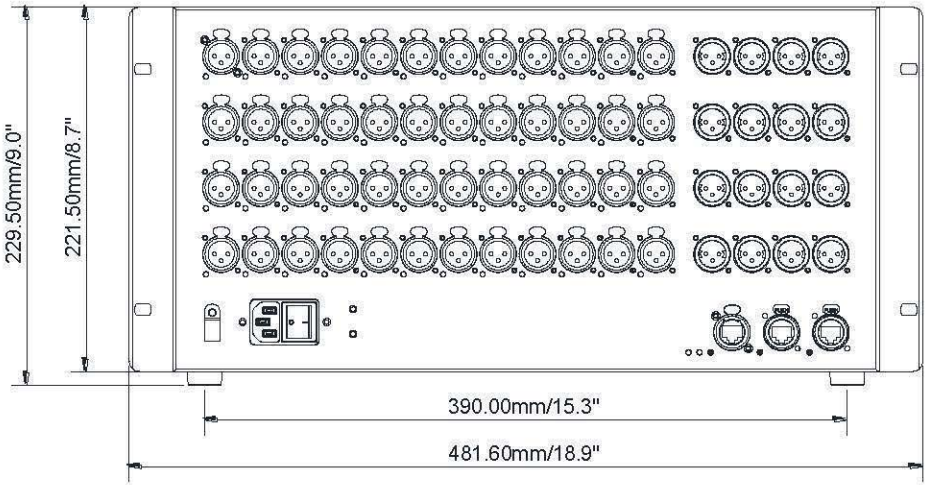
The remote audio rack shall have a built-in power supply accepting AC mains voltages of 100~240V, 50/60 Hz, 80W max via an earthed 3-pin IEC male connector on the front panel.

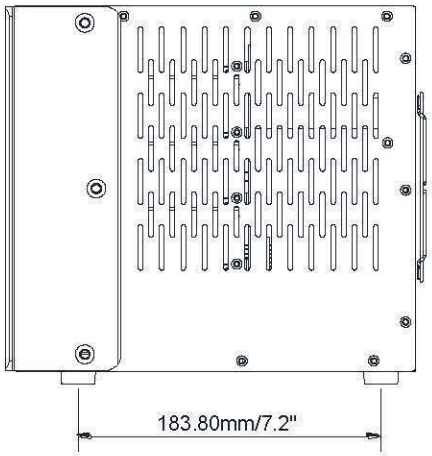
Recommended operating temperature for the remote audio rack shall be 0 to 40 degrees Celsius.

The unit shall be the Allen & Heath GX4816.

Dimensions


441.00mm/17.4"
115.60mm/4.6"
100.1mm/4"
255.0mm/10"


229.50mm/9.0"
221.50mm/8.7"
390.00mm/15.3"
481.60mm/18.9"


183.80mm/7.2"

Inputs

Mic/Line XLR Inputs	Balanced XLR, +48V phantom power
Mic/Line Preamp	Fully recallable
Input Sensitivity	-60 to +15dBu
Analogue Gain	+5 to +60dB, 1dB steps
Pad	-20dB Active PAD
Maximum Input Level	+30dBu (PAD in)
Input Impedance	>4kΩ (Pad out), >10kΩ (Pad in)
Mic EIN	-127dB with 150Ω source
Phantom Power indication	Per socket, internal or external phantom power sensing, triggered at 24V

Outputs

Analogue XLR Outputs	Balanced, Relay protected
Output Impedance	<75Ω
Nominal Output	+4dBu = 0dB meter reading
Maximum Output Level	+21dBu
Residual Output Noise	-95dBu (muted, 22Hz-22kHz)

Power

Mains Voltage Operating Range	100-240V AC, 50/60Hz
Mains Power Consumption	80W max

Temperature

Operating Temperature Range	0°C to 40°C (32°F to 104°F)

Dimensions and Weights

	Width x Depth x Height x Weight
GX4816	481.6 x 255 x 229.5 mm x 8kg (18.9" x 10" x 9" x 17.6lbs)
GX4816 (boxed)	560 x 385 x 310 mm x 10kg (22" x 15.2" x 12.2" x 22lbs)

Thon Case for Allen & Heath SQ6

4.5 ★★★★½ 12 ratings

Mixer Case

- For Allen & Heath SQ6
- Material: 7 mm birch plywood
- 30 x 30mm Aluminium edge
- Foam padding
- 4 Spring loaded butterfly fasteners
- 4 Folding handles
- 4 Steel ball corners
- 4 Steel ball corners with integrated L-corner
- 15 cm Cable duct
- External dimensions (W x D x H): 710 x 705 x 285 mm
- Weight: 12.8 kg
- Colour: Phenol Brown
- Made in Germany

Further Information

made for	Allen & Heath
Type	Case
Material	7mm PVC coated plywood
Wheels	No
Dockhouse	No

Allen & Heath Limited
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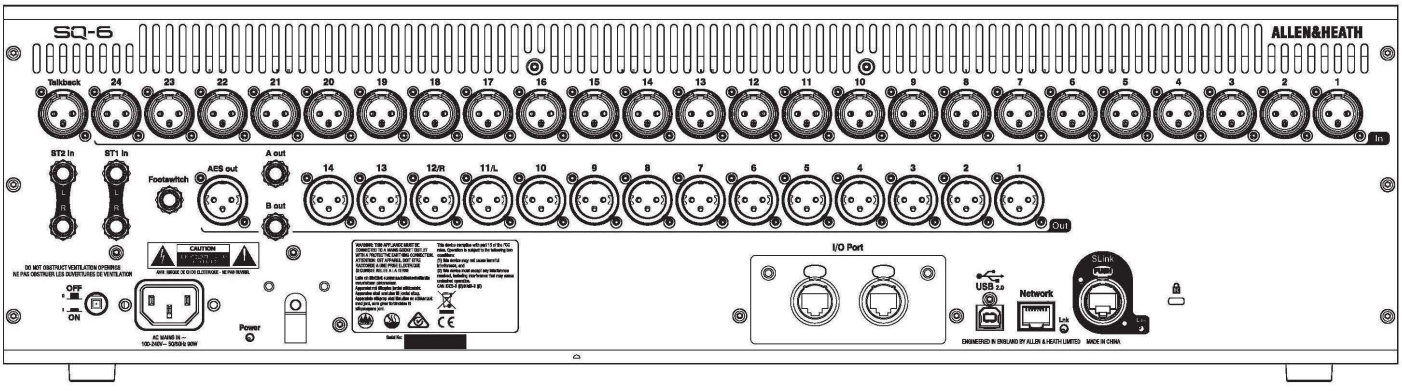
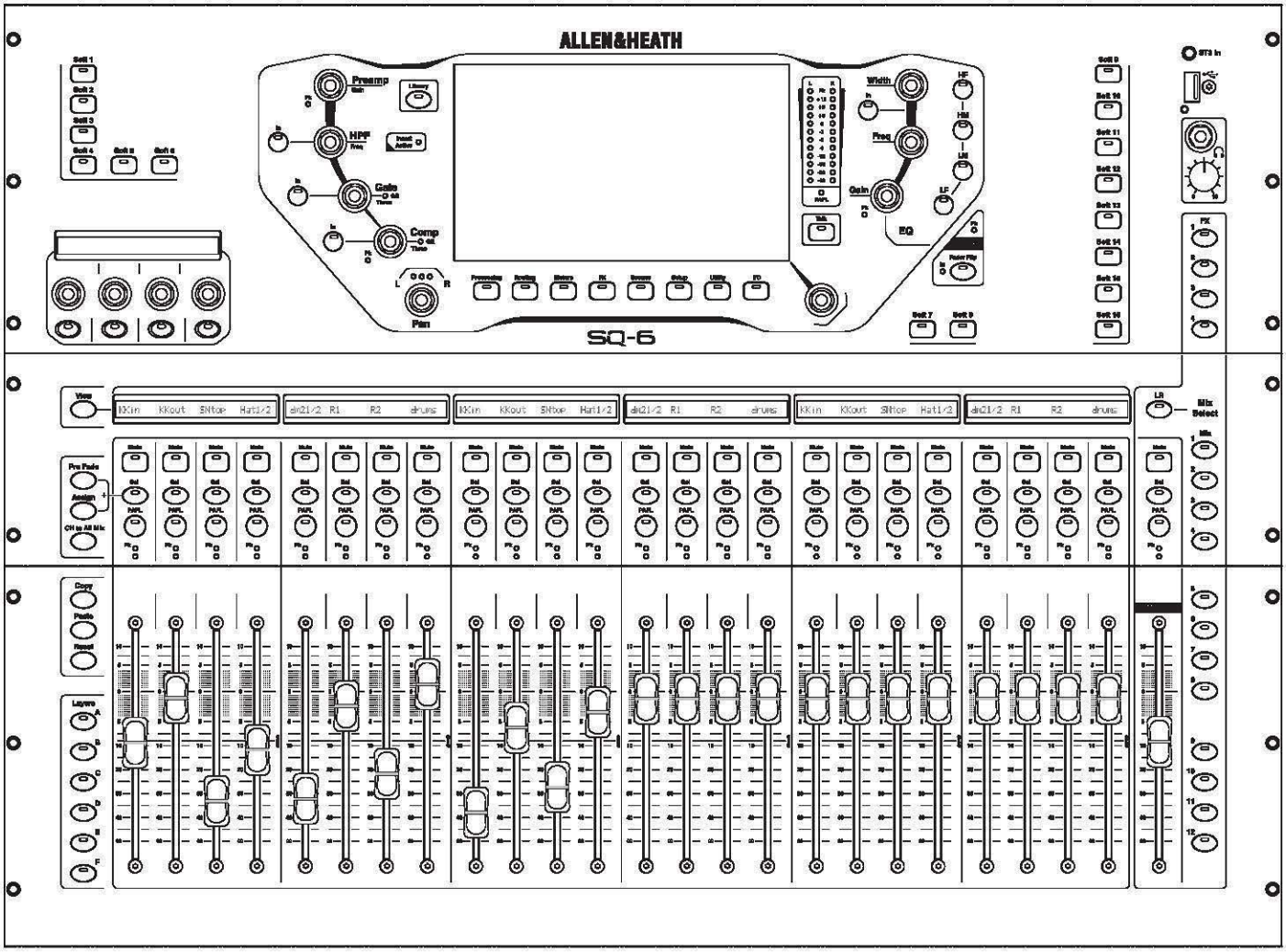
SQ-6

Technical Datasheet

Overview

- Compact Digital Mixer for Live, Studio and Installation
- 48 Input Channels
- 24 Local Mic Inputs (XLR)
- 2 ¼" Stereo Inputs (TRS)
- 1 3.5mm Stereo Input
- 36 Total Busses
- 12 Stereo Mix (Aux or Group) + Main
- PAFL Bus
- 16 Assignable Local Outputs (14 XLR + 2 ¼" TRS)
- AES Digital Output
- Dedicated Talkback mic input (XLR)
- ¼" TRS Headphone out with dedicated control
- SLink EtherCON connection for remote audio using dSnake/ME, DX or GigaACE/GX protocol (128x128 channels)
- I/O Port for Option Card (including 3rd party protocols – Dante/Waves)
- 8 Mute Groups
- 8 DCA Groups
- 8 Stereo FX with dedicated FX Returns
- DEEP Processing Ready
- RackFX Effects suite
- 7" colour touchscreen
- 16 Assignable SoftKeys
- 4 Assignable Soft Rotaries
- Dedicated physical controls for channel processing (Gain, HPF Frequency, Gate Threshold, Compressor Threshold, Pan, EQ Gain/Frequency/Width)
- 24+1 Faders with 6 Layers for 144 assignable Channel Strips
- Motorised faders for sends on faders, GEQ fader flip and mix recall
- 24 Backlit LCD Channel Strip displays
- Chromatic Channel Metering
- Integrated Surface Illumination
- Single/Dual Footswitch Control
- Input channel pairs switchable mono/stereo
- Patchable Insert points
- Input processing – Trim, HPF, Gate, PEQ, Compressor, Delay
- Output processing – Graphic EQ, PEQ, Compressor, Delay
- DEEP Automatic Mic Mixing
- 2 31/61 Band Real Time Analysers
- Quick copy/paste/reset for parameters
- User Permissions to restrict operator access
- 300 Scene memories per show
- Channel Safes, Global and per Scene Recall Filters
- FX, processing and channel Libraries
- SQ-Drive for stereo and multitrack recording/playback direct to USB drive
- USB transfer of Scenes, Libraries, Shows
- 32x32 channel USB streaming to/from Mac/PC
- MIDI via USB or TCP/IP, including DAW control options
- Remote mixing apps for iPad, Android, Mac and PC
- Compatible with ME personal monitoring range





A&E Specifications

The mixer shall be a compact digital mixer built around a 96kHz XCVI FPGA core with 48 input channels mixing to LR and 12 stereo mix outputs.

The surface shall include 25 moving faders with 6 layers, each layer having dedicated keys, giving easy access to input channels, mixes, FX sends, FX returns, DCA masters and MIDI control.
Each fader strip shall have dedicated PAFL, Select, and Mute buttons with indicators, a variable LED meter, a peak indicator LED and variable colour backlit LCD display.
There shall be dedicated physical controls which allow for adjustment of key processing parameters, and which follow the select button for the input and output channels.
The fader and rotary controls shall be of a high contrast colour to the mixer surface for excellent visibility during operation in low light conditions. The rotary controls shall also be illuminated to indicate function and availability for use.
Send levels to mixes shall be displayed and adjusted using the faders.
Surface illumination shall be integrated into the bodywork of the mixer.

Local analogue inputs shall use balanced XLR sockets and connect to fully recallable digitally controlled preamplifiers. These shall be able to provide up to +60dB of gain, industry standard 48V phantom power, and include a switchable -20dB Pad to allow a maximum input level of +30dBu.
Local analogue outputs shall be provided on 14 XLR sockets and 2 balanced TRS ¼ inch Jack sockets. These will have a nominal line output of +4dBu and a maximum output of +22dBu.

There shall be a local "SLink" Ethernet audio expansion port with locking EtherCON connector, supporting multiple AoIP protocols and providing access to 64x64 digital channels, connected over a single cable 'digital snake' and allowing remote preamp control of Allen & Heath Remote Audio Units, as well as connection to Allen & Heath ME Personal Mixing Systems.
A digital I/O Port shall be provided to accept optional cards, supporting 64x64 channels and the ability to interface with 3rd party AoIP protocols such as Dante and Waves.

All input and output processing, routing options and system configuration shall be accessed and adjusted

via a 7-inch colour touchscreen and associated dedicated rotary control.
16 user-assignable SoftKeys with variable colour LED illumination shall be provided for quick access to Input/Mix/DCA/Group Mutes, Tap Tempo, Scene Controls, MMC and SQ-Drive Controls, as well as 4 assignable rotary encoders with LCD display showing their current function.
A footswitch connection shall be provided to allow assignable control from an optional single or dual footswitch.
There shall be dedicated keys for quick Copy/Paste/Reset of processing parameters and mixes.
The ability to assign channel on/off status and to switch between Pre/Post fade to the currently selected mix shall also be provided with dedicated keys.

All input channels shall contain the following processing: Polarity, Trim, Insert, Gate, High Pass Filter, Parametric EQ, Compressor, Delay, Pan.
All FX Return channels shall contain the following: Parametric EQ, Pan.
All output mix channels shall contain the following processing: External input, Polarity, Trim, Insert, Parametric EQ, and Graphic EQ with RTA and fader-flip mode, Compressor, Delay, Balance.
All signal delays in the system shall be adjustable in Milliseconds.

The mixer will allow the insertion of Allen & Heath DEEP processing models to channels, without affecting latency or processing abilities.

8 user-assignable effect racks shall be provided with a library of factory preset FX emulations. The FX racks shall be individually configurable as send/return from a channel or FX/Mix, or inserted into input or output channels.

There shall be 8 DCA groups and 8 Mute groups.

An Automatic Mic Mixer shall be provided for automatic and dynamic adjustment of gain in spoken word applications.

A global source option for the direct out of each input channel shall be provided in the routing screen. The tap-off point shall be adjusted to the following positions in the processing path: post Preamp, post HPF, post Gate, post Insert return, post PEQ, post Compressor, and post Delay. There shall be further global options to follow Fader, DCA and Mute.
Direct outputs shall be assignable via the mixer soft patch bay.

A Talkback facility shall be provided with the ability to send to any output mix with on screen status indication. An option to enable talkback latching and HPF shall be provided.

A signal generator shall be provided with the ability to send a variable level signal to any output mix with visual assignment status on-screen. The following types of signals shall be available: Sine, White Noise, Pink Noise, and Band-Pass.

Comprehensive input, output, and FX channel and RTA metering shall be provided on-screen.
12-LED bar meters on the surface shall indicate the Main mix bus level and the PAFL signal shall override the LR meters accompanied by a PAFL-active indicator.
A default Mains to PAFL sub-mix shall be provided.

There shall be a USB Type-A connector on the surface for stereo/multitrack recording/playback, data-transfer, archiving, and firmware updates direct to USB drives.
On the rear panel there shall be a USB-B connection following the USB 2.0 standard for multi-channel, bi-directional audio streaming and MIDI DAW control between the mixer and a computer.
A DAW transport control using popular DAW control protocols for computer shall be available via the touch-screen.

Stereo digital output shall be provided on XLR following the AES/EBU standard and with switchable sample rates.

The mixer shall provide a Fast Ethernet (100 Mbit/s) port for Cat5 cable connection to a computer for MIDI over TCP/IP control of mixer parameters via a wireless router (access point) for live mixing control, and the mixing system shall include application software for tablet and phone devices connected via a wireless network router to the LAN port.

Input and output channel processing and parameters in the mixer shall be saved on demand as a user library item for recall in other channels. All library items shall be archived with the show-file. Library items shall be transferrable to USB drive as portable data to be used in other systems.
The mixer shall provide the facility to save 300 scenes of the settings of the mixing system and these scenes shall be nameable.
A comprehensive table of 'Scene Safes' shall be provided to prevent selected items from being changed from their state when the safe was enabled.
A comprehensive scene filter shall be provided per scene to Allow / Block each parameter saved in a scene from being changed as that scene is recalled.

An option shall be provided for password protection for log-in of several users with different levels of system access and permissions. A particular scene may be chosen to be recalled per change of user-login if desired.

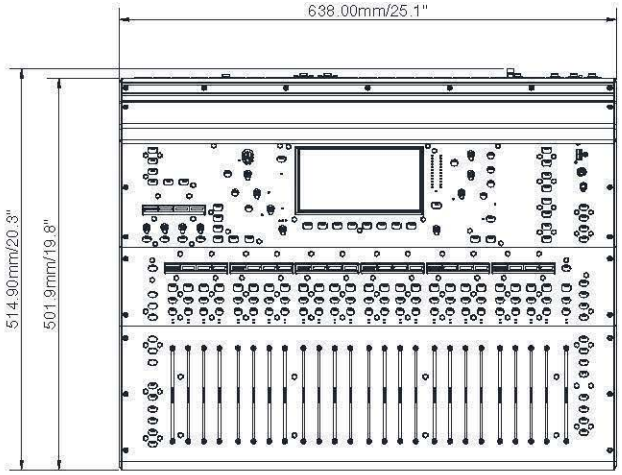
The mixing system shall periodically record all current settings and return the mixer to that state after reboot following a power-cycle.

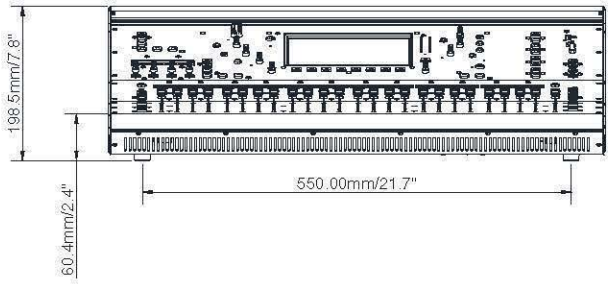
The mixing control surface shall have a built in power supply accepting AC mains voltages of 100~240V, 50/60 Hz, 90W max via an earthed 3-pin IEC male connector mounted on the rear chassis. A Two Pole Push-Button switch shall be provided near the mains input.

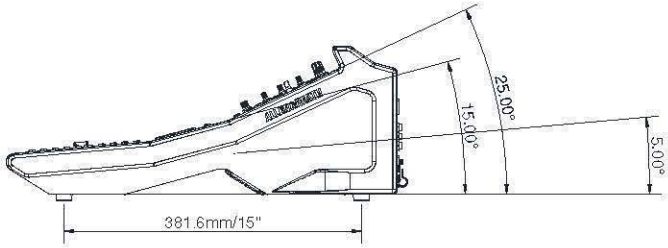
Recommended operating temperature for the mixer shall be 5 to 35 degrees Celsius.

The mixer shall be the Allen & Heath SQ-6.

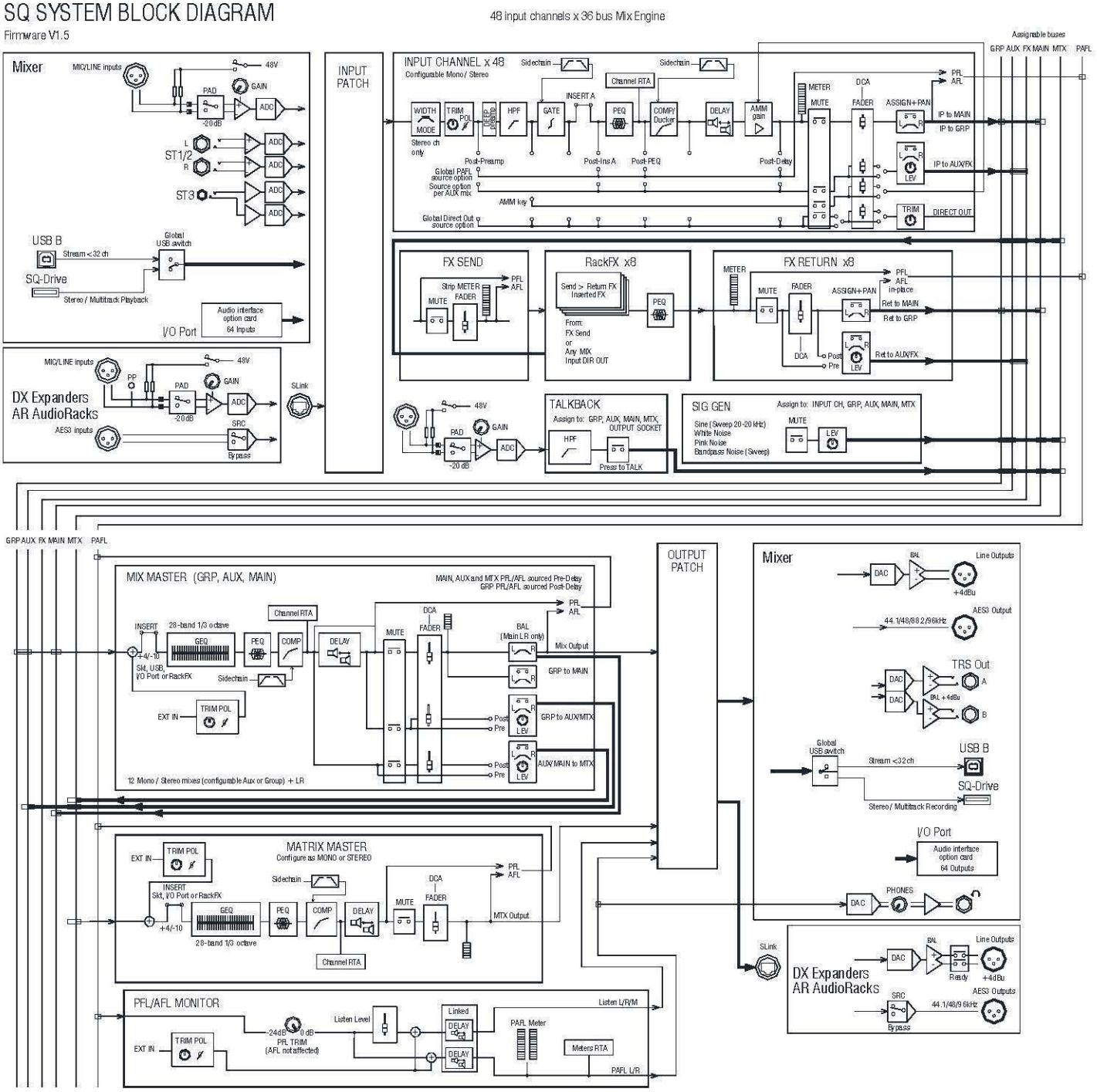
Dimensions







Block Diagram



Mixer Specifications

Inputs	**Mic/Line Inputs**	Balanced XLR, fully recallable
	Input Sensitivity	-60 to +0dBu
	Switchable Pad	-20dB
	Analogue Gain	0dB to +60dB, 1dB steps
	Maximum Input Level	+30dBu
	Input Impedance	>5kΩ
	THD+N, Unity gain 0dB	0.002% -92dBu (20Hz-20kHz, AES Direct Out, @0dBu 1kHz)
	THD+N, Mid gain +30dB	0.003% -91dBu (20Hz-20kHz, AES Direct Out, @-30dBu INPUT 1kHz)
	Phantom Power	+48V (+3V / -2V)
	Stereo Line Inputs	
	ST1, ST2 connectors	Balanced, 1/4" TRS jack
	ST3 connector	Unbalanced, stereo 3.5mm Mini Jack
	Input Sensitivity (ST1, ST2 / ST3)	Nominal +4dBu ST1, ST2 / 0dBu ST3
	Trim	+/-24dB
	Maximum Input Level (ST1,ST2 / ST3)	+22dBu / +18dBu
	Input Impedance	>7kΩ
Outputs	**XLR Outputs**	Balanced, XLR
	Outputs A and B	Balanced 1/4" TRS Jack
	Source	Patchable
	Output Impedance	<75Ω
	Nominal Output	+4dBu = 0dB meter reading
	Maximum Output Level	+22dBu
	Residual Output Noise	-90dBu (muted, 20Hz-20kHz)
	AES Digital Output	Balanced XLR 2 channel, 96kHz sampling rate (Default with SRC Bypassed) Switchable output sample rates,44.1kHz/ 48kHz/ 88.2kHz/ (96kHz) 2.5Vpp balanced terminated 110Ω
SLink	**Connection**	Neutrik EtherCON (RJ45)
	dsnake mode (48kHz devices)	40 input 20+40(ME) output channels
	dx mode (96kHz devices)	32 input 32 output channels
	gigaACE/GX (96kHz devices)	128 input 128 output channels
	Inputs	Fully Patchable
	Outputs	Fully Patchable
	Sync/SRC	Assignable as master audio sync for all modes, SRC 64 channel
I/O Port		Multi-channel I/O option module
	Inputs	Fully Patchable
	Outputs	Fully Patchable
	Sync/SRC	Assignable as master audio sync
System		Measured balanced XLR in to XLR out, 0dB gain, 0dBu input
	Dynamic Range	112 dB
	Frequency Response	+0/-0.5dB 20Hz to 20kHz
	Headroom	+18dB
	Internal operating Level	0dBu
	THD+N, Mic/Line routed to Main L/R Out	Unity gain faders@0dB, 0.006%, -84dBu (20 - 20kHz)
	dBFS Alignment	+18dBu = 0dBFS (+22dBu at XLR output)
	Meter Calibration	0dB meter = -18dBFS (+4dBu at XLR out)
	Main Meter Type	2 x 12 segment, fast (peak) response
	Channel Meter Type	Chromatic Channel Metering, fully programmable colour/brightness
	Peak Indication	-3dBFS (+19dBu at XLR out), multi-point sensing
	Sampling Rate	96kHz
	Bit Depth	Uses XCVI core custom bit widths in algorithms, up to 96bits
	Latency	<0.7mS, Local Mic Input to Main L/R
	Operating Temperature Range	0 deg C to 40 deg C (32 deg F to 104 deg F)
	Mains Power	100-240V AC, 50/60Hz
	Max Power Consumption SQ-5/SQ-6/SQ-7	75W / 90W / 110W
Dimensions & Weights	**SQ-5**	Width x Depth x Height
	Desk mounted	440 x 514.9 x 198 mm (17.3" x 20.3" x 7.8")
	Packed in shipping box	610 x 680 x 360 mm (24" x 26.8" x 14.2")
	Unpacked weight	10.5 kg (23.1 lbs)
	Packed weight	14 kg (30.9 lbs)
	SQ-6	Width x Depth x Height
	Desk mounted	638 x 514.9 x 198 mm (25.1" x 20.3" x 7.8")
	Packed in shipping box	820 x 680 x 360 mm (32.3" x 26.8" x 14.2")
	Unpacked weight	14.5 kg (32 lbs)
	Packed weight	17.3 kg (38.1 lbs)
	SQ-7	Width x Depth x Height
	Desk mounted	804 x 514.9 x 198 mm (31.7" x 20.3" x 7.8")
	Packed in shipping box	960 x 685 x 360 mm (37.8" x 27" x 14.2")
	Unpacked weight	17.8 kg (39.3 lbs)
	Packed weight	21.9 kg (48.3 lbs)

Control	Faders	100mm motorised
	Touch Screen	7" Capacitive, 800 x 480 resolution, 24 bit RGB
	SoftKeys	8 (SQ-5), 16 (SQ-6, SQ-7)
	SoftRotarys	4 (SQ-6), 8 (SQ-7)
	Mute Groups / DCA Groups	8 / 8
	Network	TCP/IP Ethernet for MIDI and Control
	MIDI	TCP/IP and USB-B
	Footswitch	Single or Dual, Momentary or Latching
Input Processing	**Source**	
	CH1-48	Fully patchable
	USB Global Source	SQ-Drive or USB B Streaming
	Polarity	Normal/Invert
	Trim	-24 to +24dB
	High Pass Filter	12/18/24dB per octave 20Hz – 2kHz
	Insert (Pre EQ/Comp)	Fully Patchable
	Delay	Up to 341ms
	Gate	Patchable Sidechain
	Sidechain filter	Hi-pass (20-5k), band-pass (120-10k), Lo-pass (120-20k)
	Threshold / Depth	-72dBu to +18dBu / 0 to 60dB
	Attack / Hold / Release	50µs to 300ms / 10ms to 5s / 10ms to 1s
	PEQ	4-Band fully parametric, 20-20kHz, +/-15dB
	Band 1, Band 4	Selectable Shelving (Baxandall), Bell, HPF/LPF 12dB/octave
	Band 2, Band 3	Bell
	Bell Width	Variable Q, 1.5 to 1/9th octave
	Compressor	Patchable Sidechain, DEEP options
	Sidechain filter	Hi-pass (20-5k), band-pass (120-10k), Lo-pass (120-20k), Q=1
	Threshold / Ratio	-46dBu to 18dBu / 1:1 to infinity
	Attack / Release	30µs to 300ms / 50ms to 2s
	Knee	Soft/Hard
	Detector response	Peak/RMS switchable
	Parallel Path Compression	dry/wet -infin to 0dB
	Channel Direct Out	Follow Fader, Mute, Mute Group, DCA (global all ch)
	Source select	Post-Preamp, Post-HPF, Post-Gate, Insert Return, Post-PEQ, Post-Comp, Post-Delay
		trim -infin to 10dB per channel
Mix Processing	**Insert** (Pre EQ/Comp)	Fully Patchable
	Delay	Up to 682ms
	GEQ	28 bands 31Hz-16kHz, +/-12dB Gain, Constant 1/3 oct, DEEP options
	PEQ	As Input PEQ
	Compressor	As Input Compressor
FX	Internal FX	8 x RackFX engine, Send>Return or Inserted (4 dedicated fx bus)
	Types	SMR Reverb, Stereo Tap Delay, Gated Reverb, ADT, Blue Chorus Symphonic Chorus, Flanger, Phaser
	8 dedicated Stereo FX returns	Fader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ
Audio Tools	**PAFL**	PFL or stereo in-place AFL, 0 to -24dB Trim, PAFL Delay Up to 682ms
	Talkback	Dedicated input, Assignable to any mix, Gain, Pad, 48V, 12dB/oct HPF
	Signal Generator	Assignable to any input or mix, Sine/White/Pink/Bandpass Noise
	RTA's	2x 31-Band 1/3 octave (Stereo) or 61-Band 1/6 octave (Mono) 20-20kHz. PAFL/Selected Channel or Fixed Source
USB Audio	**SQ-Drive**	USB-A
	Stereo Record	2 channel, WAV, 96kHz, 24-bit, source fully patchable
	Stereo Playback	1/2 channel, WAV, 44.1, 48, 96kHz 16,24-bit, source fully patchable
	Multitrack Record	1-16 channel 96kHz, 1-32 channel 48kHz, 24-bit, WAV, fully patchable
	Multitrack Playback	1-16 channel 96kHz, 1-32 channel 48kHz, 24-bit, WAV, fully patchable
	USB Audio Streaming	USB-B, Core Audio compliant, ASIO/WDM for Windows
	Send (upstream)	32 channel, 48/96kHz, 24-bit
	Return (downstream)	32 channel, 48/96kHz, 24-bit
AMMs	Configuration	2x 24ch or 1x 48ch, freely assignable
	Type	Gain Sharing
	Sidechain Filter HPF / LPF	12dB/octave 20Hz – 5kHz / 120Hz - 20kHz
	Priority	-15dB to +15dB per channel
Add-ons	DEEP Preamps	Tube Stage
	DEEP Compressors	Opto, 16T, 16VU, PeakLimiter76, Mighty
	DEEP GEQ's	Proportional-Q, DiGi-GEQ, Hybrid
	RackFX units	De-Esser, DynEQ4, MultiBD3, MultiBD4, Bucket Brigade, Echo, Hypabass

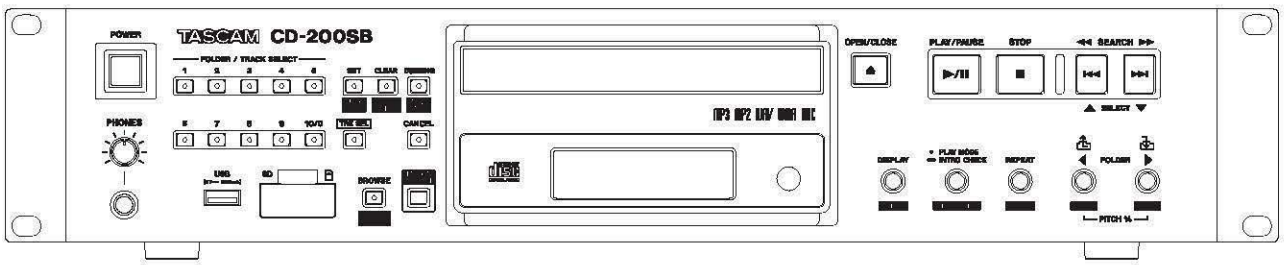
TASCAM

D01174820D

CD-200SB

CD / Solid State Player

OWNER'S MANUAL



IMPORTANT SAFETY PRECAUTIONS

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

For U.S.A.

This equipment complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

1) This device may not cause interference and
2) This device must accept any interference, including interference that may cause undesired operation of the device.

INFORMATION TO THE USER

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION

Changes or modifications to this equipment not expressly approved by TEAC CORPORATION for compliance could void the user's authority to operate this equipment.

In North America use only on 120V supply.

This appliance has a serial number located on the rear panel. Please record the model number and serial number and retain them for your records.

Model number _____

Serial number _____

For Canada

THIS CLASS A DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.CET

APPAREIL NUMERIQUE DE LA CLASSE B EST CONFORME A LA NORME NMB-003 DU CANADA.

CE Marking Information

a) Applicable electromagnetic environment: E4

b) The average half-cycle r.m.s. inrush current

1. On initial switch-on : 0.4Arms
2. After a supply interruption of 5s : 0.14Arms

For the customers in Europe

WARNING

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Pour les utilisateurs en Europe

AVERTISSEMENT

Il s'agit d'un produit de Classe A. Dans un environnement domestique, cet appareil peut provoquer des interférences radio, dans ce cas l'utilisateur peut être amené à prendre des mesures appropriées.

Für Kunden in Europa

Warnung

Dies ist eine Einrichtung, welche die Funk-Entstörung nach Klasse A besitzt. Diese Einrichtung kann im Wohnbereich Funkstörungen versursachen; in diesem Fall kann vom Betrieber verlang werden, angemessene Maßnahmen durchzuführen und dafür aufzukommen.

1 Read these instructions.

2 Keep these instructions.

3 Heed all warnings.

4 Follow all instructions.

5 Do not use this apparatus near water.

6 Clean only with dry cloth.

7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11 Only use attachments/accessories specified by the manufacturer.

12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13 Unplug this apparatus during lightning storms or when unused for long periods of time.

14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- The apparatus draws nominal non-operating power from the AC outlet with its POWER or STANDBY/ON switch not in the ON position.
- The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
- Caution should be taken when using earphones or headphones with the product because excessive sound pressure (volume) from earphones or headphones can cause hearing loss.
- If you are experiencing problems with this product, contact TEAC for a service referral. Do not use the product until it has been repaired.

CAUTION

- Do not expose this apparatus to drips or splashes.
- Do not place any objects filled with liquids, such as vases, on the apparatus.
- Do not install this apparatus in a confined space such as a book case or similar unit.
- The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.
- If the product uses batteries (including a battery pack or installed batteries), they should not be exposed to sunshine, fire or excessive heat.
- CAUTION for products that use replaceable lithium batteries: there is danger of explosion if a battery is replaced with an incorrect type of battery. Replace only with the same or equivalent type.

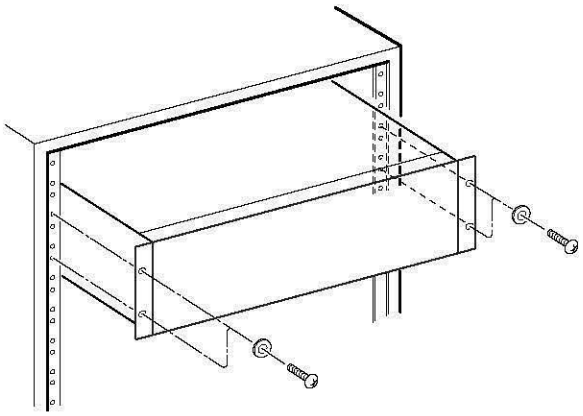
WARNING

- Products with Class I construction are equipped with a power supply cord that has a grounding plug. The cord of such a product must be plugged into an AC outlet that has a protective grounding connection.

■ RACK-MOUNTING THE UNIT

Use the supplied rack-mounting kit to mount the unit in a standard 19-inch rack, as shown below.

Remove the feet of the unit before mounting.



CAUTION

- Leave 1U of space above the unit for ventilation.
- Allow at least 10 cm (4 in) at the rear of the unit for ventilation.

Safety Information

■ CAUTIONS ABOUT BATTERIES

This product uses batteries. Misuse of batteries could cause a leak, rupture or other trouble. Always abide by the following precautions when using batteries.

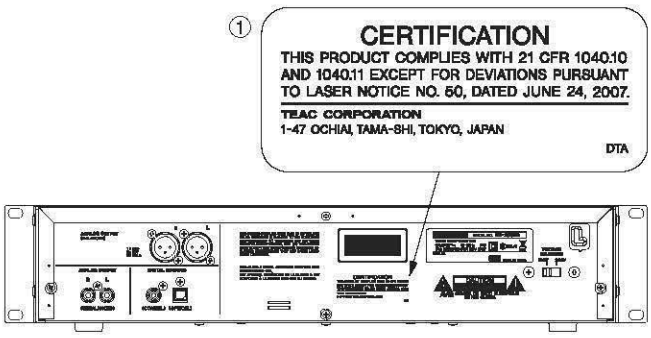
- Never recharge non-rechargeable batteries. The batteries could rupture or leak, causing fire or injury.
- When installing batteries, pay attention to the polarity indications (plus/minus (+/–) orientation), and install them correctly in the battery compartment as indicated. Putting them in backward could make the batteries rupture or leak, causing fire, injury or stains around them.
- When you store or dispose batteries, isolate their terminals with insulation tape or something like that to prevent them from contacting other batteries or metallic objects.
- When throwing used batteries away, follow the disposal instructions indicated on the batteries and the local disposal laws.
- Do not use batteries other than those specified. Do not mix and use new and old batteries or different types of batteries together. The batteries could rupture or leak, causing fire, injury or stains around them.
- Do not carry or store batteries together with small metal objects. The batteries could short, causing leak, rupture or other trouble.
- Do not heat or disassemble batteries. Do not put them in fire or water. Batteries could rupture or leak, causing fire, injury or stains around them.
- If the battery fluid leaks, wipe away any fluid on the battery case before inserting new batteries. If the battery fluid gets in an eye, it could cause loss of eyesight. If fluid does enter an eye, wash it out thoroughly with clean water without rubbing the eye and then consult a doctor immediately. If the fluid gets on a person's body or clothing, it could cause skin injuries or burns. If this should happen, wash it off with clean water and then consult a doctor immediately.
- The unit power should be off when you install and replace batteries.
- Remove the batteries if you do not plan to use the unit for a long time. Batteries could rupture or leak, causing fire, injury or stains around them. If the battery fluid leaks, wipe away any fluid on the battery compartment before inserting new batteries.
- Do not disassemble a battery. The acid inside the battery could harm skin or clothing.

■ CAUTIONS ABOUT LASER RADIATION

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968," and is classified as a class 1 laser product. There is no hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings.

The label required in this regulation is shown at ①.

For U.S.A



Cautions:

- DO NOT REMOVE THE PROTECTIVE HOUSING USING A SCREWDRIVER.
- USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
- IF THIS PRODUCT DEVELOPS TROUBLE, CONTACT YOUR NEAREST QUALIFIED SERVICE PERSONNEL, AND DO NOT USE THE PRODUCT IN ITS DAMAGED STATE.

Optical pickup

Type	: EP-C101
Manufacturer	: Ever Bright Teachnology and Science Electronical Co.,LTD
Laser output	: Less than 0.3 mW
Wavelength	: 790±25nm
Standard	: IEC60825-1: 2007

■ For European Customers

Disposal of electrical and electronic equipment

(a) All electrical and electronic equipment should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.

(b) By disposing of the electrical and electronic equipment correctly, you will help save valuable resources and prevent any potential negative effects on human health and the environment.

(c) Improper disposal of waste equipment can have serious effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment.

(d) The crossed out wheeled dust bin symbol indicates that electrical and electronic equipment must be collected and disposed of separately from household waste.

(e) The return and collection systems are available to the end users. For more detailed information about disposal of old electrical and electronic equipment, please contact your city office, waste disposal service or the shop where you purchased the equipment.

Disposal of batteries and/or accumulators

(a) Waste batteries and/or accumulators should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.

(b) By disposing of waste batteries and/or accumulators correctly, you will help save valuable resources and prevent any potential negative effects on human health and the environment.

(c) Improper disposal of waste batteries and/or accumulators can have serious effects on the environment and human health as a result of the presence of hazardous substances in batteries and/or accumulators.

(d) The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.
If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will be indicated beneath the crossed out wheeled dust bin symbol.

Pb, Hg, Cd

(e) The return and collection systems are available to the end users. For more detailed information about disposal of waste batteries and/or accumulators, please contact your city office, waste disposal service or the shop where you purchased them.

Contents

■ **For China**

产品有毒有害物质或元素的名称及含量

机种：CD-200SB		有毒有害物质或元素					
	品名	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
1	CHASSIS 部份	○	○	○	○	○	○
2	FRONT PANEL 部份	○	○	○	○	○	○
3	螺丝部份	○	○	○	○	○	○
4	线材部份	○	○	○	○	○	○
5	PCB Assy 部份	×	○	○	○	○	○
6	CD MECH 部份	○	○	○	○	○	○
7	电源部份	○	○	○	○	○	○
8	附属品部份	×	○	○	○	○	○
9	LABEL 部份	○	○	○	○	○	○
10	包装部份	○	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含有量均在 GB/T26572 标准规定的限量要求以下。
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 GB/T26572 标准规定的限量要求。
（针对现在代替技术困难的电子部品及合金中的铅 ）

1 – Introduction

Thank you for your purchase of the TASCAM CD-200SB CD / Solid State Player.

Before connecting and using the unit, please take time to read this manual thoroughly to ensure you understand how to properly set up and connect the unit, as well as the operation of its many useful and convenient functions. After you have finished reading this manual, please keep it in a safe place for future reference.

You can also download the Owner's Manual from the TASCAM web site (https://tascam.com/us/).

Features

- Plays back audio CDs (CD-DA) and data CDs (CD-ROM/R/RW) with WAV, MP3 and MP2 format files.
- 2U rack mount size
- Plays back MP3, MP2, WAV, WMA and AAC format files on SD cards and USB flash drives
- Analog (RCA and XLR) and digital (coaxial and optical) outputs
- Headphone output with level control
- TASCAM RC-CD200SB remote control with number (1–10/0) buttons included
- Displays textual information (artist name, album name, track name, etc.) including CD text, ID3, WMA and AAC tags.
- 4 playback modes (continuous, single, random and program)
- Repeat playback function can be turned ON and OFF
- Playback area can be designated (ALL PLAY, FOLDER) for data CDs, SD cards and USB flash drives.
- CD playback pitch control function (±14%)
- Intro check function
- Time display options include track elapsed time, track remaining time and total remaining time for audio CDs, track elapsed time for data CDs and track elapsed time and track remaining time for SD cards and USB flash drives
- CD drive has 10-second shockproof memory (protection against skipping).
- CDs can be dubbed (copied) to SD cards and USB flash drives
- Direct folder function using the number (1–10/0) buttons on the main unit or the wireless remote control (SD card/USB flash drive)
- Browse function (SD card/USB flash drive)
- Folder erase function (SD card/USB flash drive)

Items included with this product

This product includes the following items.

Take care when opening the package to avoid damaging the items.

Keep the packing materials for transportation in the future.

Please contact the store where you purchased this unit if any of these items are missing or have been damaged during transportation.

- Main unit 1
- Wireless remote control unit (RC-CD200SB) 1
- AAA batteries 2
- A rack-mounting screw kit 1
- Warranty card 1
- Owner's Manual (this manual) 1

Conventions used in this manual

In this manual, we use the following conventions:

- Buttons, connectors and other parts of the unit and external devices are indicated like this: **SET** button
- Text displayed on the display of the unit and external devices appears like this: ON.
- CD-DA format discs are sometimes called "audio CDs."
- CDs that contain audio files in MP2, MP3 or WAV formats are called "data CDs."
- Audio CDs and data CDs are sometimes generically called "CDs".
- SD/SDHC memory cards are called "SD cards".
- MP3, MP2, WAV, WMA and AAC files are sometimes generically called "audio files".
- The currently selected media is called the "current media".
- The currently selected folder is called the "current folder".
- The currently selected file is called the "current file".
- Additional information is provided as necessary as tips, notes and cautions.

TIP

These are tips about how to use the unit.

NOTE

These provide additional explanations and describe special cases.

CAUTION

Failure to follow these instructions could result in injury, damage to equipment or lost recording data, for example.

Trademarks

- TASCAM is a registered trademark of TEAC Corporation.
- SDHC Logo is a trademark of SD-3C, LLC.

- Supply of this product does not convey a license nor imply any right to distribute MPEG Layer-3 compliant content created with this product in revenue-generating broadcast systems (terrestrial, satellite, cable and/or other distribution channels), streaming applications (via Internet, intranets and/or other networks), other content distribution systems (pay-audio or audio-on-demand applications and the like) or on physical media (compact discs, digital versatile discs, semiconductor chips, hard drives, memory cards and the like). An independent license for such use is required. For details, please visit http://mp3licensing. com.
- MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.
- This product is protected by certain intellectual property rights of Microsoft. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft.
- Other company names, product names and logos in this document are the trademarks or registered trademarks of their respective owners.

Precautions for placement

- The operating temperature should be between 5°C and 35°C (41°F and 95°F).
- Make sure that the unit is mounted in a level position for correct operation.
- Do not place any object on the unit for heat dissipation.
- Avoid installing this unit on top of any heat-generating electrical device such as a power amplifier.

Power supply

Connect the unit to the standard power outlet. Hold the plug when connecting and disconnecting the power cord.

Beware of condensation

If the unit is moved from a cold to a warm place, or used immediately after a cold room has been heated or otherwise exposed to a sudden temperature change, condensation could occur. Should this happen, leave the unit for one or two hours before turning the unit on.

Cleaning the unit

To clean the unit, wipe it gently with a soft dry cloth. Do not wipe with chemical cleaning cloths, paint thinner, ethyl alcohol or other chemical agents to clean the unit as they could damage the surface.

Once every five years, please contact the retailer where you purchased the unit or a TASCAM service center for internal cleaning. If the unit is not cleaned for a long time and dust is allowed to accumulate inside it, fire or malfunction could result. Cleaning is more effective when conducted before the humid season. Please check with us about the cost of internal cleaning.

Using the TEAC Global Site

You can download updates for this unit from the TEAC Global Site:http://teac-global.com/In the TASCAM Downloads section, select the desired language to open the Downloads website page for that language.

About TASCAM customer support service

TASCAM products are supported and warrantied only in their country/region of purchase.

To receive support after purchase, on the TASCAM Distributors list page of the TEAC Global Site (http:// teac-global.com/), search for the local company or representative for the region where you purchased the product and contact that organization.

When making inquiries, the address (URL) of the shop or web shop where it was purchased and the purchase date are required. Moreover, the warranty card and proof of purchase might also be necessary.

SD cards and USB flash drives

This unit can use SD cards and USB flash drives for playback and dubbing.

A list of SD cards and USB flash drives that have been confirmed for use with this unit can be found on our web site.

Please access to a product page of this product from the TEAC Global Site (http://teac-global.com) to find the list or contact the TASCAM customer support service.)

Handling precautions

SD cards and USB flash drives are made with precision. In order to avoid damaging SD cards and USB flash drives, please observe the following precautions when handling them.

- Do not leave them in places that are extremely hot or cold.
- Do not leave them in places that are extremely humid.
- Do not get them wet.
- Do not place objects on top of them or twist them.
- Do not subject them to strong impacts.
- Do not remove or insert them during dubbing, playback or data transfer or at other times they are being accessed by the unit.
- When transporting them, do not leave their terminals exposed (use covers).

About media that have been confirmed for use with this unit

This unit uses SD cards and USB flash drives for playback and dubbing.

Old SD cards and USB flash drives, as well as some new ones, might have memory components with slow operating speeds or small internal buffering capacities. Use of such cards and drives could affect the dubbing performance of this unit.

A list of SD cards that have been confirmed for use with this unit can be found on our web site.

Please access to a product page of this product from the TEAC Global Site (http://teac-global.com) to find the list or contact the TASCAM customer support service.

SD card/USB flash drive write-protection

This unit writes settings used by the direct folder function (page 33) to the media in order to save them. Since direct folders settings cannot be written to SD cards and USB flash drives that are write-protected, these settings will be lost when the media is removed and the power is turned OFF.

Precaution regarding use with Mac operating systems

The number of songs and track numbers within a folder might not match on SD cards and USB flash drives that have been written on by a Mac. This is an existing problem with Mac system files, but it will not affect playback on this unit.

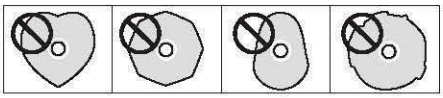
If the "Trash" is not emptied on a Mac, the open space on an SD card or USB flash drive could be insufficient and dubbing and other operations might not be possible. Empty the Trash before ejecting an SD card or USB flash drive from a Mac.

About discs

In addition to audio CDs (CD-DA), the CD-200SB can play CD-R and CD-RW discs on which audio CD, MP3, MP2 or WAV format files are recorded. The CD player can also play 3-inch CDs

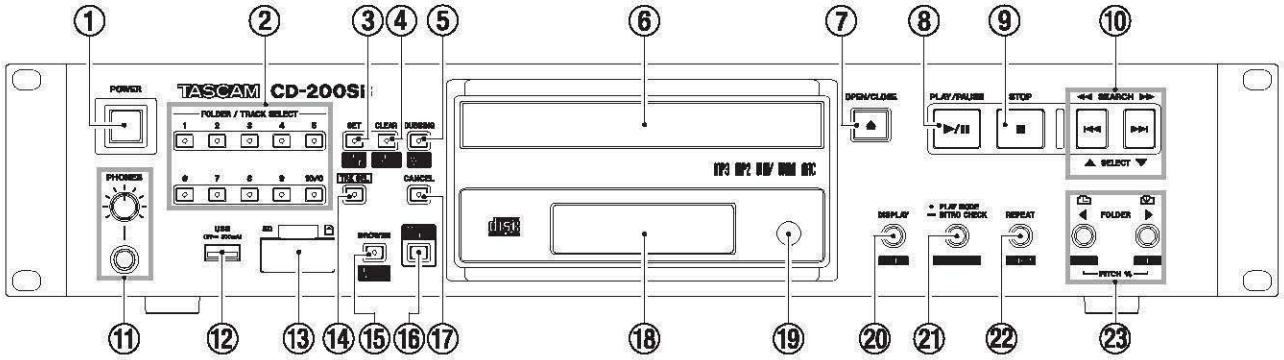
Handling of compact discs

- Always place the compact discs in the trays with their label facing upward.
- To remove a disc from its case, press down on the center of the disc holder, then lift the disc out, holding it carefully by the edges.
- Do not touch the signal side (the unlabeled side).Fingerprints, oils and other substances can cause errors during playing.
- To clean the signal side of a disc, wipe gently with a soft dry cloth from the center towards the outside edge. Dirt on discs can lower the sound quality, so clean them and always store them in a clean state.
- Do not use any record spray, anti-static solutions, benzine, paint thinner or other chemical agents to clean CDs. This could damage the delicate playing surface and cause CDs to become unplayable.
- Do not apply labels or other materials to discs. Do not use discs that have had tape, stickers or other materials applied to their surface. Do not use discs that have sticky residue from stickers, etc. Such discs could become stuck in the unit or cause it to malfunction.
- Never use a commercially available CD stabilizer. Using stabilizers with this unit will damage the mechanism and cause it to malfunction.
- Do not use cracked discs.
- Only use circular compact discs. Do not use non-circular promotional, etc. discs.



- Some record companies sell copy-protected discs or copy-controlled discs that may not play back correctly in this unit. Since such discs may not conform with the CD standard, do not use them in this unit.
- If you experience problems with such non-standard discs, you should contact the producers of the disc.

Top panel



① **POWER switch**
Press this switch to turn the unit on or off.

NOTE

- *Before turning this unit's power ON/OFF, minimize the volume of monitoring systems connected to it.*
- *Do not wear headphones when turning the power ON/OFF. Noise could damage speakers or your hearing.*

② **FOLDER/TRACK SELECT (1–10/0) buttons/indicators**
When the **TRK SEL** indicator is not lit, these buttons can be used for the direct folder function.
The indicators light on the buttons that have folders assigned for the direct folder function. (See "Assigning direct folders" on page 33.)
Press a button that has a lit indicator to begin playback of the folder that has been assigned using the direct folder function. During folder playback, the indicator blinks. (See "Direct folder playback" on page 36.)
When the **TRK SEL** indicator is lit, these buttons can be used as number **(1–10/0)** buttons to select track numbers on the current media. (See "Selecting by track number" on page 24.)
Track numbers have a maximum of two digits on audio CDs and a maximum of three digits on data CDs, SD cards and USB flash drives.

③ **SET [AUTO SET] button/indicator**
Use with the direct folder function to assign folders on an SD card or USB flash drive to **FOLDER/TRACK SELECT (1–10/0)** buttons. This indicator lights during assignment. (See "Assigning direct folders" on page 33.)
Press this button while pressing and holding the **DISPLAY [SHIFT]** button to automatically assign folders on the SD card/USB flash drive to the **FOLDER/TRACK SELECT (1–10/0)** buttons that have not yet been assigned. This indicator blinks when the direct folder AUTO SET function is in use. (See "Automatically assign all direct folders (AUTO SET)" on page 34.)

④ **CLEAR [CLEAR ALL] button/indicator**
Use with the direct folder function to clear **FOLDER/TRACK SELECT (1–10/0)** button folder assignments. This indicator lights while clearing an assignment. (See "Clearing individual direct folder assignments" on page 37.)
Press this button while pressing and holding the **DISPLAY [SHIFT]** button to clear all **FOLDER/TRACK SELECT (1–10/0)** buttons folder assignments. This indicator blinks while clearing all assignments. (See "Clearing all direct folder assignments (CLEAR ALL)" on page 38.)

⑤ **DUBBING [WAV/MP3] button/indicator**
Use when dubbing (copying) from a CD to an SD card or USB flash drive. This indicator lights while dubbing. (See "7 – Dubbing (copying)" on page 39.)
Press this button while pressing and holding the **DISPLAY [SHIFT]** button to show the current recording format setting used when dubbing for two seconds. Press this button again while pressing and holding the **DISPLAY [SHIFT]** button during this time to change the setting. (See "Dubbing" on page 40.)

⑥ **Disc tray**
Insert discs (CD, CD-R, CD-RW) here.

⑦ **OPEN/CLOSE button**
Use to open and close the disc tray.

⑧ **PLAY/PAUSE button**
Press during playback to pause. When playback is stopped or paused, press to start playback.
When in browse mode, use to confirm the selected track and to start playback.

⑨ **STOP button**
Press to stop playback.
While editing a program, press to clear all the program entries. (See "Setting the program" on page 26.)

⑩ **SEARCH ◄◄/►► [I◄◄/►►I, SELECT ▲/▼]buttons**
When in browse mode, use these to change the selection. (See "5 – Browsing" on page 31.)

⑪ **PHONES jack and knob**
Use this standard stereo jack to connect stereo headphones. Use a plug adapter when connecting headphones with mini-plugs. Use the **PHONES** knob to adjust the headphone output level.

CAUTION

Use the **PHONES** *knob to minimize the volume before connecting headphones. Failure to do so could cause a sudden burst of loud noise, which might result in hearing damage, for example.*

⑫ **USB port**
Connect and disconnect USB flash drives here. (See "Connecting and disconnecting USB flash drives" on page 20.)
This unit can dub to USB flash drives and playback files on them.

⑬ **SD card slot**
Insert and remove SD cards here. (See "Inserting and removing SD cards" on page 19.)
This unit can dub to SD cards and playback files on them.

⑭ **TRK SEL button/indicator**
Press to light the **TRK SEL** indicator.
When this button's indicator is not lit, the **FOLDER/TRACK SELECT (1–10/0)** buttons can be used for the direct folder playback function. (See "Direct folder playback" on page 36.)
When this button's indicator is lit, the **FOLDER/TRACK SELECT (1–10/0)** buttons can be used as number **(1–10/0)** buttons to select tracks on the current media. (See "Selecting by track number" on page 24.)

⑮ **BROWSE [ERASE FOLDER] button/indicator**
Press to activate browse mode, which allows you to explore the folder structure of the current media.
When in browse mode, this indicator lights. (See "5 – Browsing" on page 31.)
Press this button while pressing and holding the **DISPLAY [SHIFT]** button to activate the folder erase mode in which you can erase folders on SD cards and USB flash drives.
When in folder erase mode, this indicator blinks. (See "Erasing folders" on page 43.)

⑯ **MEDIA SELECT button**
Set the current media to CD, SD card or USB flash drive.

→ CD → SD → USB

Cycle through the current media options

NOTE

You cannot select SD or USB if the corresponding media type is not loaded.

⑰ **CANCEL button/indicator**
When this indicator is lit or blinking, you can press this button to cancel the previous operation.

⑱ **Display**
Displays various information.

⑲ **Remote Sensor**
When operating the remote control unit (RC-CD200SB), point it towards here.

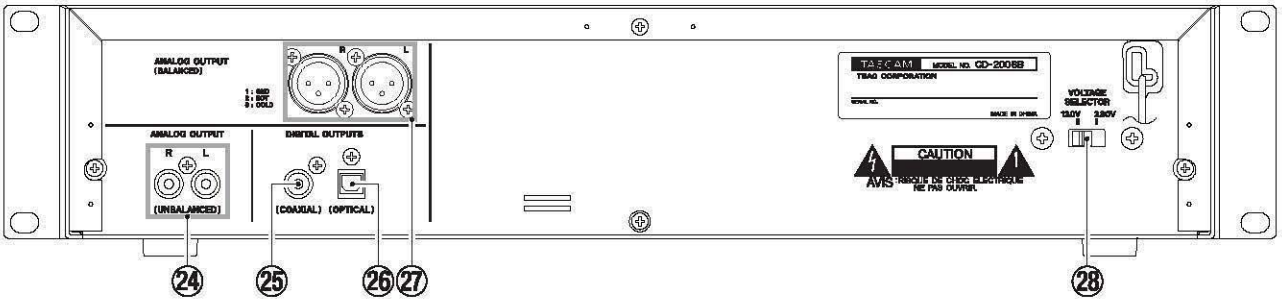
⑳ **DISPLAY [SHIFT] button**
You can change the time and other information shown on this display.
When this button is pressed, the type of information currently displayed is shown for two seconds. Press the button again during this time to change the type of information shown. The information that can be shown depends on the type of media and the status of operation. (See "Time and text information display" on page 28.)
Press this button at the same time as another button to use its shift function, which is shown as black letters on a white background beneath the button.

㉑ **PLAY MODE / INTRO CHECK [PLAY AREA] button**
Press briefly to change the playback mode.
The four playback modes are continuous, single, random and program. (See "Setting the playback area" on page 22.)
During playback or when stopped, press and hold this button to use the intro check playback feature. The beginning of each track on the CD plays for 10 seconds in order. During intro check playback, press and hold this button again to return to the previous playback mode and continue playing the current track. (See "Intro Check function" on page 30.)
Press this button while pressing and holding the **DISPLAY [SHIFT]** button to set the playback area during playback of data CDs, SD cards and USB flash drives to ALL PLAY or FOLDER. (See "Setting the playback area" on page 22.)

㉒ **REPEAT [PITCH] button**
Press to turn the repeat playback function ON/OFF.
While pressing and holding the **DISPLAY [SHIFT]** button, press this button to turn the CD playback pitch control function ON/OFF. (See "Pitch control (with CDs only)" on page 29.)

㉓ **FOLDER ◀/▶ [PITCH – / +, 📤/📥]**
Use these buttons when the playback area is set to FOLDER to change the playback folder. (See "Setting the playback folder" on page 25.)
Use these buttons when the playback area is set to ALL PLAY to skip between folders.
Press this button while pressing and holding the **DISPLAY [SHIFT]** button to set the pitch control value. (See "Pitch control (with CDs only)" on page 29.)
When in browse mode, press the **FOLDER ◀ [PITCH –, 📤]** button to move to the folder one level higher (parent), and press the **FOLDER ▶ [PITCH +, 📥]** button to enter the currently selected folder. (See "5 – Browsing" on page 31.)

Rear panel



㉔ **ANALOG OUTPUT (UNBALANCED) jacks**
These jacks output analog signals (–10 dBV) of the CD, SD card or USB flash drive playback sound signal.

㉕ **DIGITAL OUTPUTS (COAXIAL) jack**
This jack outputs the CD, SD card or USB flash drive playback signal in S/PDIF digital format.

㉖ **DIGITAL OUTPUTS (OPTICAL) jack**
This jack outputs the CD, SD card or USB flash drive playback signal in S/PDIF digital format.

NOTE

- *The sampling frequency of this unit's digital output is always 44.1 kHz regardless of the playback media/file sampling frequency.*
- *Digital output is possible when the pitch control function is on with Audio CD or Data CD, but the sampling frequency is changed by an amount proportional to the pitch control value.*

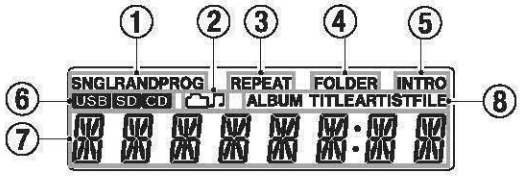
㉗ **ANALOG OUT (BALANCED) connectors**
These balanced analog connectors output the playback signals from CDs, SD cards and USB flash drives.
The maximum output level is +20 dBu (1: GND, 2: HOT, 3: COLD).

㉘ **VOLTAGE SELECTOR**
Switches the voltage to either 230 V or 120 V.

NOTE

- *The voltage selector is only available on units for specific markets.*
- *In North America, use only on 120V supply.*

Display



① **Playback mode indicator**
This shows the current playback mode.

Indicator	Playback mode
None	Continuous playback mode
SNGL	Single playback mode
RAND	Random playback mode
PROG	Program playback mode

② **Folder/audio file indicator**
When in browse mode, this shows the selected data type.

Indicator	Meaning
🗀	Folder selected
♫	Audio file selected

③ **REPEAT indicator**
REPEAT appears when the repeat playback function is ON.

④ **FOLDER indicator**
FOLDER appears when the playback area is set to FOLDER.

⑤ **INTRO indicator**
INTRO appears when the intro check function is ON.

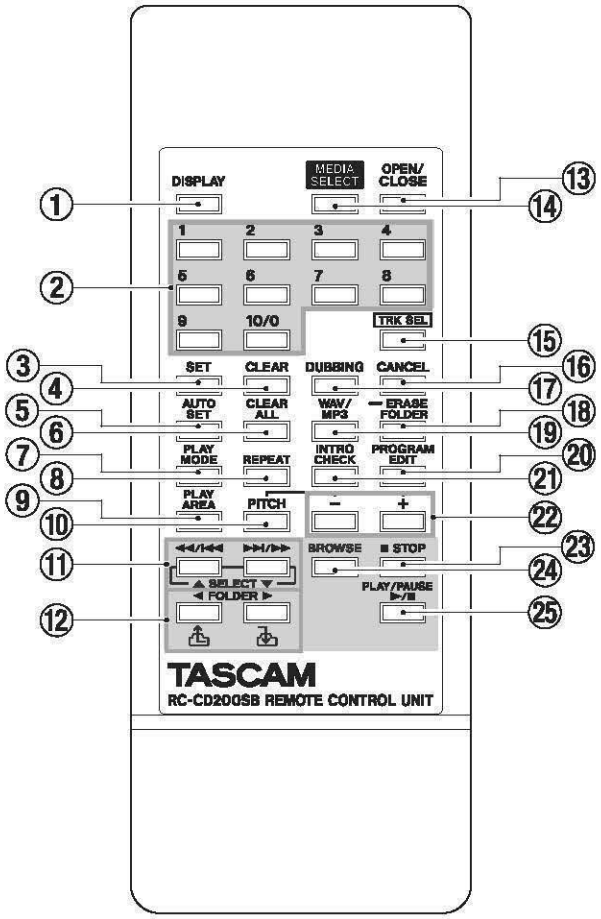
⑥ **Current media indicator**
This shows the currently selected media type.

⑦ **Main display area**
The track number and time or text information is shown.
The status of the unit (OPEN, CLOSE, TOC* READ, etc.) and messages (NO DISC, etc.) are also shown. Items with more than eight characters are scrolled when shown.
*TOC means "Table Of Contents," which is track information written on the disc

⑧ **Main display information type indicator**
When text information is shown in the main display area, these indicate the type of information.

Indicator	Meaning
ALBUM TITLE	CD-TEXT album title or current folder name
ALBUM ARTIST	CD-TEXT album artist
TITLE	CD-TEXT track title or track title of the current file (from its tag data)
ARTIST	CD-TEXT track artist or track artist of the current file (from its tag data)
FILE	Current file name

Remote control unit (TASCAM RC-CD200SB)



① **DISPLAY button**
Press to change how the time is shown and other information. When this button is pressed, the type of information currently displayed is shown for two seconds. Press the button again during this time to change the type of information shown. The information that can be shown depends on the type of media and the status of operation. (See "Time and text information display" on page 28.)

② **Number (1–10/0) buttons**
When the **TRK SEL** indicator on the main unit is not lit, these buttons can be used for the direct folder function. (See "Assigning direct folders" on page 33.)
Press the same number button as a lit **FOLDER/TRACK SELECT (1–10/0)** indicator on the main unit to begin playback of the folder that has been assigned using the direct folder function. During folder playback, that indicator blinks. (See "Direct folder playback" on page 36.)
When the **TRK SEL** indicator on the main unit is lit, these buttons can be used as number **(1–10/0)** buttons to select track numbers on the current media. (See "Selecting by track number" on page 24.)
Track numbers have a maximum of two digits on audio CDs and a maximum of three digits on data CDs, SD cards and USB flash drives.

③ **SET button**
Use with the direct folder function to assign folders on an SD card or USB flash drive to **FOLDER/TRACK SELECT (1–10/0)** buttons. (See "Assigning direct folders" on page 33.)

④ **CLEAR button**
Use with the direct folder function to clear **FOLDER/TRACK SELECT (1–10/0)** button folder assignments. (See "Clearing individual direct folder assignments" on page 37.)

⑤ **AUTO SET button**
Press to automatically assign folders on the SD card/USB flash drive to the **FOLDER/TRACK SELECT (1–10/0)** buttons that have not yet been assigned. (See "Automatically assign all direct folders (AUTO SET)" on page 34.)

⑥ **CLEAR ALL button**
Press to clear all **FOLDER/TRACK SELECT (1–10/0)** buttons folder assignments. (See "Clearing all direct folder assignments (CLEAR ALL)" on page 38.)

⑦ **PLAY MODE button**
Press to change the playback mode.
The four playback modes are continuous, single, random and program. (See "Playback modes" on page 22.)

⑧ **REPEAT button**
Press to turn the repeat playback function ON/OFF. (See "Repeat playback" on page 28.)

⑨ **PLAY AREA button**
Press to set the playback area during playback of data CDs, SD cards and USB flash drives to ALL PLAY or FOLDER. (See "Setting the playback area" on page 22.)

⑩ **PITCH button**
Press this button to turn the CD playback pitch control function ON/OFF. (See "Pitch control (with CDs only)" on page 29.)

⑪ **◄◄/I◄◄ and ►►I/►►, [SELECT ▲/▼] buttons**
Press briefly to select tracks (skip). Press and hold to search a track.
When in browse mode, use these to change the selection. (See "5 – Browsing" on page 31.)

⑫ **FOLDER ◄/► [🗀/🗀] buttons**
Use these buttons when the playback area is set to FOLDER to change the playback folder. (See "Setting the playback folder" on page 25.)
Use these buttons when the playback area is set to ALL PLAY to skip between folders.
When in browse mode, press the **FOLDER ◄ [🗀]** button to move to the folder one level higher (parent), and press the **FOLDER ► [🗀]** button to enter the currently selected folder. (See "5 – Browsing" on page 31.)

⑬ **OPEN/CLOSE button**
Use to open and close the disc tray.

⑭ **MEDIA SELECT button**
Set the current media to CD, SD card or USB flash drive.

→CD → SD → USB

Cycle through the current media options

NOTE

You cannot select SD or USB if the corresponding media type is not loaded.

⑮ **TRK SEL button**
Press to light the **TRK SEL** indicator on the main unit.
When the **TRK SEL** indicator on the main unit is not lit, the **FOLDER/TRACK SELECT (1–10/0)** buttons can be used for the direct folder playback function. (See "Direct folder playback" on page 36.)
When the **TRK SEL** indicator on the main unit is lit, the **FOLDER/TRACK SELECT (1–10/0)** buttons can be used as number **(1–10/0)** buttons to select tracks on the current media. (See "Selecting by track number" on page 24.)

⑯ **CANCEL button**
When the **CANCEL** indicator on the main unit is lit or blinking, you can press this button to cancel the previous operation.

⑰ **DUBBING button**
Use when dubbing (copying) from a CD to an SD card or USB flash drive. (See "7 – Dubbing (copying)" on page 39.)

⑱ **ERASE FOLDER button**
Press to activate the folder erase mode in which you can erase folders on SD cards and USB flash drives. (See "Erasing folders" on page 43.)

⑲ **WAV/MP3 button**
Press when dubbing to change the recording format. (See "Dubbing" on page 40.)

⑳ **PROGRAM EDIT button**
Use to set, confirm and edit programs. (See "Programmed playback" on page 25.)

㉑ **INTRO CHECK button**
Use for intro check playback. The first 10 seconds at the beginnings of tracks on the current media will be played back one after another.
During intro check playback, press and hold this button again to return to ordinary playback mode. (See "Intro Check function" on page 30.)

㉒ **–/+ buttons**
Use these adjust the pitch control value during CD playback. (See "Pitch control (with CDs only)" on page 29.)

㉓ **STOP button**
Press to stop playback.
While editing a program, press to clear all the program entries. (See "Setting the program" on page 26.)

㉔ **BROWSE button**
Press to activate browse mode, which allows you to explore the folder structure of the current media. (See "5 – Browsing" on page 31.)

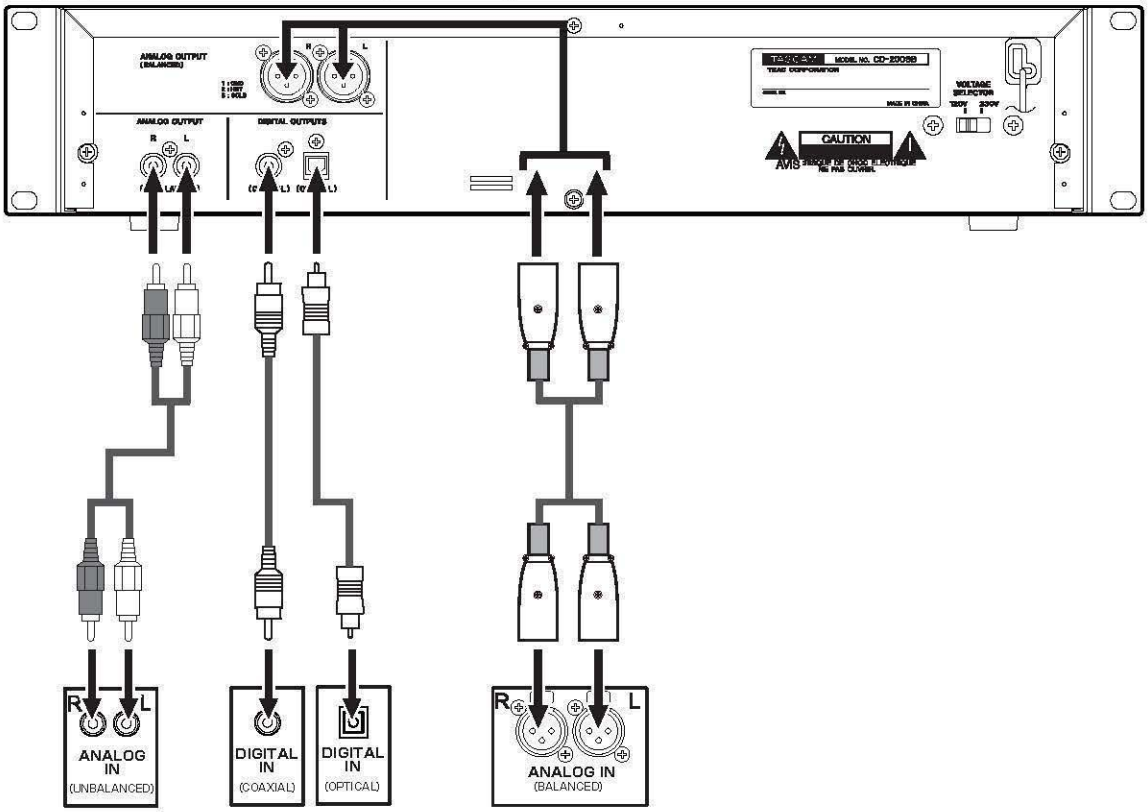
㉕ **PLAY/PAUSE button**
Press during playback to pause. When playback is stopped or paused, press to start playback.
When in browse mode, use to confirm the selected track and to start playback.

Making connections

Examples of connections that can be made with a CD-200SB are shown below.

■ Precautions before making connections

- Before connecting other devices, read their operation manuals carefully and connect them properly.
- Turn the power OFF or set the power to standby for this unit and all units to be connected to it.
- Set up all the units so that they are powered from the same line. When using a power strip, for example, use a thick cable with a high current capacity to reduce fluctuation of the power voltage.



Mixer, Recorder, Amplifier, or other device

Digital mixer, Digital recorder, Digital amplifier, or other device

Mixer, Recorder, Amplifier, or other device

■ Connecting analog audio devices

Connect the analog output jacks of this unit to the input jacks of a stereo amplifier, mixer, recorder or other device with analog inputs.

NOTE

- *Cables are not included with this unit.*
- *Do not bundle RCA cables with power cords or speaker cables. Doing so could cause reduced audio quality or noise.*

■ Connecting digital audio devices

Connect a digital output jack (coaxial or optical) of this unit to the input jack of a stereo amplifier, mixer, recorder or other device with a digital input.

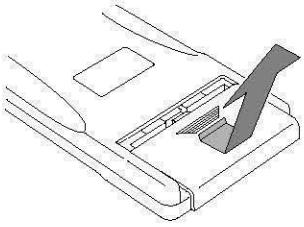
NOTE

- *The sampling frequency of this unit's digital output is always 44.1 kHz regardless of the playback media/file sampling frequency.*
- *During playback of audio CD, digital output is possible when the pitch control function is in use, but the sampling frequency is changed by an amount equivalent to the pitch control value. When the pitch control function is on, some devices might not be able to accept signals from the digital outputs of this unit.*

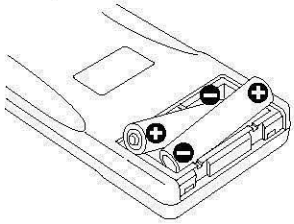
Preparing the remote control

Inserting batteries

1. Open the lid.



2. Confirm +/- polarity, and insert two AA batteries.



3. Close the lid.

Replacing the batteries

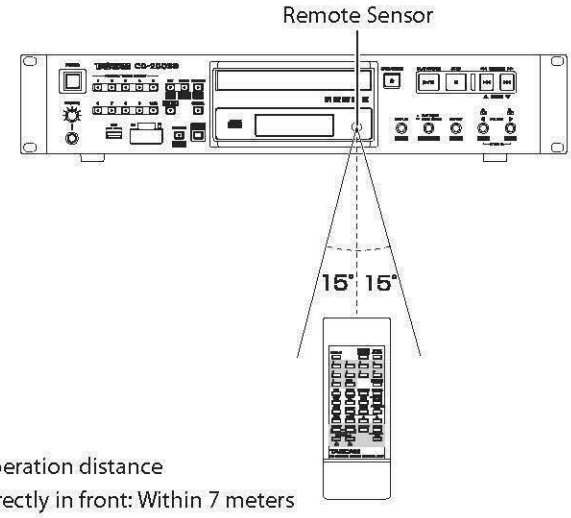
Replace both batteries with new ones when the range of the remote control becomes short or if the function buttons become unresponsive.

Cautions about the use of batteries

Misuse of batteries could cause them to leak, rupture or otherwise be damaged. Please read and abide by the precautions on them when using batteries. Also see "CAUTIONS ABOUT BATTERIES" on page 4.

Cautions about using the remote control

- When using other devices controlled by infrared rays, use of this remote control might operate these devices by mistake.
- Use the remote control within the following range.

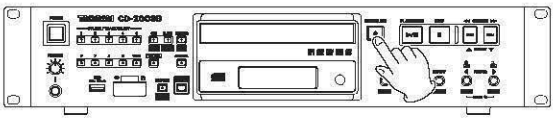


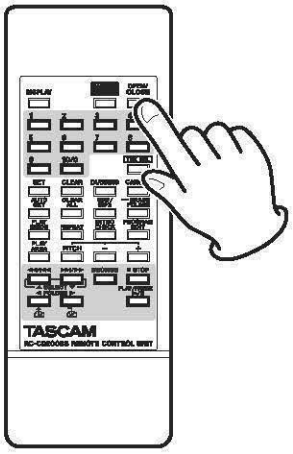
Operation distance
Directly in front: Within 7 meters
15° left or right: Within 7 meters

Loading a CD

To load a CD, press the **OPEN/CLOSE** button on the main unit or on the remote control to open the disc tray, and put the CD into the tray with the label facing up.

Press the **OPEN/CLOSE** button again to close the disc tray. After loading the disc, the unit reads the disc's information and the display shows the total number of tracks and total playback time if it is an audio CD or the total number of tracks in the current folder or on the entire disc if it is a data CD.





NOTE

- *When the current media is set to CD, instead of pressing the* **OPEN/CLOSE** *button to close the disc tray, you can press the* **PLAY/PAUSE** *button to close the disc tray and begin playback immediately.*
- *If you open the disc tray while this unit is in use, the following settings are lost.*
  - *Program*
  - *Current folder (for data CDs)*