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POCKET GUIDE

1/2008



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US-122L USB AUDIO/MIDI INTERFACE



- Two XLR mic inputs with phantom power
- Two analog line inputs (one switchable to high impedance for use with guitars, basses, etc.)
- One MIDI input, one MIDI output
- USB 2.0 equipped (also supports USB 1.1)
- Up to 96kHz/24-bit for high quality recordings
- Zero-latency hardware monitoring
- Headphone/level control
- Bus powered for use with any PC or Mac, including laptops
- Up to 96kHz/24-bit for high quality recordings
- Dimensions (W x H x D): 192 x 147 x 48 mm
- Weight: 1 kg

US-144 USB AUDIO/MIDI INTERFACE



- Two XLR mic inputs with phantom power
- Digital audio input and output (SPDIF, coaxial)
- Two analog line inputs (one switchable to high impedance for use with guitars, basses, etc.)
- One MIDI input, one MIDI output
- USB 2.0 equipped (also supports USB 1.1)
- Up to 96kHz/24-bit for high quality recordings
- Zero-latency hardware monitoring
- Separate controls for output level and headphone volume
- Bus powered for use with any PC or Mac, including laptops
- Cubase LE and GigaStudio 3 LE included
- Dimensions (W x H x D): 192 x 147 x 48 mm
- Weight: 1 kg



- CD players with bass (BT), guitar (GT) or microphone (VT) pre amp and effects
- CD-DA/CD-R/CD-RW disc playback
- 10 second anti-shock memory
- Album title/Track title indication by CD-Text
- Elapsed/Remain time display with bar meter
- +16 to -50% pitch control in 1% steps
- VSA (Variable Speed Audition, tempo control without affecting key)
- Key control: ± 6 semi-tones, in semi-tone steps with ± 50 cents fine tune
- Single play and continuous play
- Single Loop, All Loop, seamless In-Out Loop
- Flash Back function (instant review up to 5 seconds prior playback)
- Chromatic tuner with calibration (435–445 Hz)
- 3 octaves tone oscillator
- Metronome (BPM: 40 to 220, Beat: 2 to 6)
- 6.3-mm input with level control
- Input level indicator on display
- Balance between input and CD signals adjustable
- 3.5-mm stereo line and headphone outputs
- Headphone volume control
- Mono monitor function for CD (L+R, L, R)

- Split monitor function (left channel: CD, right channel: input signal or vice versa)
- Comprehensive 128 x 64 dot matrix LC display
- Two options of power supply: alkaline/NiMH batteries or optional AC adapter PS-P520
- Dimensions (W x H x D): 194 mm x 39 mm x 138 mm
- Weight (excluding batteries): 0.55 kg

Individual features

- Built-in effects/sound controls:
 - BT: Up to 4 effect modules plus 7-band graphic EQ, 10 effect banks, Bass enhancement
 - GT: Up to 3 effect modules, 10 effect banks, Guitar Canceller with selectable pan point and frequency range
 - VT: Reverb and echo effects, Voice Changer (1 octave up/down), Instrument/Vocal Canceller with selectable pan point and frequency range
- Other inputs:
 - BT, GT: Foot switch connector, 5 selectable functions
 - VT: Second mic input with separate mix control on display



- MP3 players with bass (BT), guitar (GT) or microphone (VT) pre amp and effects
- 1 Gigabyte memory capacity
- Multi-effects processor on MP-BT1 and MP-GT1, reverb and echo effects on MP-VT1
- Guitar/vocal canceller with selectable pan point and selectable frequency range on MP-GT1/MP-VT1
- 7-Band EQ and Bass Enhancement Effect on MP-BT1
- Variable Speed Audition (VSA) to change the song tempo without affecting the key
- Pitch control: +16 % to 50 % in 1-% steps (while VSA is turned off)
- Key control to “tune the MP3” to your instrument/vocals (± 6 semi-tones with ± 50 cents fine tune)
- Seamless in-out loop
- 3 play modes
 - Play a single file
 - Repeat a single file
 - Repeat all files
- ID3 Tag display to read title and artist information stored in your files

- Metronome lets you practise your timing when MP3 playback is stopped
- Chromatic Tuner with calibration (435 Hz to 445 Hz) and Oscillator
- Input volume control
- Balance control to set the level balance between MP3 playback and your instrument
- Volume control for headphones
- 24-bit AD/DA converter for audiophile playback quality
- Lithium-ion rechargeable battery (up to 8 hours of playback time)
- USB port for MP3 file import and battery recharge
- Auto power-off function saves battery power when unit is not in use
- Optional AC adapter
- 128 x 64 dot matrix LC display
- Dimensions (W x H x D): 78 mm x 26 mm x 105 mm
- Weight: 0.220 kg (including lithium-ion battery)

GA-30CD 30-WATT GUITAR AMP / CD PHRASE TRAINER COMBO



Overall features

- 15-watt guitar amplifier with NeoTube technology
- Separate 7.5+7.5-watt stereo amplifier for CD playback
- 6.5-inch (16.5-cm) loudspeaker for guitar amplifier section
- Two 3-inch (7.5-cm) fullrange loudspeakers for stereo playback from CD Trainer
- Line input for external source (MP3 players etc.)
- Two built-in DSP effects processors
- Headphones output

Guitar amplifier section

- 1-channel guitar amp with switchable Boost
- Gain, Bass, Middle and Treble controls
- Master level control
- Reverb control for dedicated reverb processor

DSP effects section

- Two editable parameters per effect
- Dedicated effects level control
- Effects output switchable between center and side speakers

CD Trainer section

- Variable Speed Audition: Change tempo without changing the key
- Key change without changing the tempo
- Pitch control: Change tempo and key at the same time
- Guitar Cancel function to reduce level of center-panned solo guitars
- Loop Function
- Chromatic Tuner
- Oscillator
- Dimensions (W x H x D): 384 mm x 344 mm x 260 mm
- Weight: 13.8 kg

GA-100CD 100-WATT GUITAR AMP / CD PHRASE TRAINER COMBO



Overall features

- 60-watt RMS guitar amplifier section
- Separate 20+20-watt stereo amplifier for CD playback
- 12-inch custom-voiced RockReady speaker for amplifier section
- Two 5-inch fullrange speakers for stereo playback of CD Trainer
- Built-in DSP effects

Amplifier section

- 2-channel guitar amp (clean and overdrive) with master volume
- Effects send/return
- Dedicated gain, volume and 3-band tone controls for each channel
- Neo Tube™ solid state circuitry for natural tube tone
- Footswitchable channel-select and effects

CD Trainer section

- Change tempo without changing pitch
- Seamless loop
- Guitar cancel
- RCA line in
- RCA line out (mix of amp and CD sections)
- Dimensions (W x H x D): 818 mm x 548 mm x 344 mm
- Weight: 36 kg



- DP-02: Digital Portastudio with built-in 40-GB hard drive and CD-RW burner / CD-ROM drive
- DP-02CF: Digital Portastudio using popular and secure CompactFlash card as recording media
- 8-track recording at uncompressed CD quality
 - Create hits at professional audio quality
- 2-track simultaneous recording
 - Record in stereo or record two independent mono sources

- Dedicated stereo mixdown track
 - Mix your song to a stereo file you can transfer to a computer for CD burning or MP3 encoding
- Dedicated controls on each channel for volume, pan, effect send, EQ high & EQ low
 - Use real knobs and buttons to change your sound like on an analogue recorder/mixer
- Two-band shelving EQ per track
 - Decide for yourself which frequencies the low and high EQ knobs cut or boost depending on your sound sources
- Two TRS mic/line inputs, one switchable to Guitar

- Plug in and record microphones, synths, guitars, drum machines etc. directly
- Two phantom powered XLR microphone inputs
 - Plug in condenser microphones for a higher recording quality
- Effects send and stereo return
 - Patch in an external reverb or effects processor

- RCA line output
 - Connect to monitor amplifier/speakers or record your mix to an external recorder
- SPDIF digital optical output
 - Record your mix to a CD or MD recorder at high quality
- Headphone output with level control
 - Monitor with headphones, or use a Y-cable to connect speakers and control their volume
- MIDI output for Timecode or Clock
 - Synchronize a drum machine or MIDI sequencer to your song
- USB 2.0 port for computer backup
 - Export your mix recording or individual tracks (WAV files) or back up your song to a computer; import individual tracks (WAV files) or restore backed-up songs from a computer
- Workstation-style editing: copy, paste, move, erase, silence
 - Edit your tracks like a pro: tighten your timing, create loops, cut unwanted noise etc.

Features found on the DP-02 only

- Built-in reverb processor
 - Polish your mixes
- Built-in multi-effects processor
 - Process your track with delay, chorus, flange, amp modeling or other effects as you record
- Built-in chromatic tuner
 - Tune your instrument precisely
- Slot-type CD-RW burner / CD-ROM drive
 - Create audio CDs from your mixes, backup/restore your projects, import/export WAV files from/to CD or CD-RW



New features

- Double harddisk capacity (80 Gigabytes)
- CD recorder with up to 16x write speed
- Two additional effect sections within multi effect (Overdrive, Acoustic Guitar Simulator)
- Physical master fader for submix
- Copy From -> To editing function allows precise alignment of a copied section

Recorder section

- 24-track HDD-based multitrack recorder
 - Simultaneous playback of 24 tracks
 - Simultaneous recording of 8 tracks
- 250 assignable virtual (alternative) tracks
- 2 additional tracks for mastering

- Powerful editing functions
- Flexible Undo/Redo (999 levels)
- 999 markers plus In/Out/To locate points per song
- Return To Zero function
- Manual punch in/out
- Auto punch in/out
- Rehearsal function
- Repeat playback or recording function
- Variable pitch ($\pm 6\%$)
- Slow Speed Audition (50–100 %)
- Waveform view

Mixer

- 24+8-channel digital mixer
- Flexible on-board digital patch bay
- 3 aux sends on all input and track channels
- 3-band EQ on all 24 channels and 8 inputs (high and low sweepable shelving bands and full parametric mid band)
- 8 analogue inputs (4 XLR/TRS balanced inputs with phantom power, 4 TRS balanced inputs, one shared with additional connector on unit's front for direct connection of a guitar/bass)
- Solo/Mute, Channel link
- Quick setup utility
- Snapshot memory
- Digital input (SPDIF)

- Analogue (RCA) and digital (SPDIF) master outputs
- TRS quasi-balanced monitor output
- Headphones output

Effects

- Internal effects and dynamics processors
 - Reverb, delay, chorus and others to be used as loop effect
 - Up to 4 insert mic effects
 - Assignable guitar multi-effects processor
 - Dedicated stereo dynamics processor on the stereo output
- Chromatic tuner

MIDI

- Sync to MTC (Master/Slave)
- MMC (MIDI Machine Control)
- MIDI Clock output with SPP (Song Position Pointer)
- Metronome
- Import and play Standard MIDI (SMF) files (external sequencer or sound module needed for audio output)

CD writer

- On-board CD-RW drive
 - Burn your mixdown on CD
 - Import/export WAV files
 - Backup your hard drive
 - Play Audio CDs
 - Live Writer function (use the markers to set track increments automatically)

Other

- High-speed USB 2.0 port to connect to your PC/Mac for data backup/restore and SMF/WAV file transfer
- Connector for expression pedal (allows control of Wah or Volume)
- Dimensions (W x D x H): 545 mm x 355 mm x 145 mm
- Weight: 8 kg



Multitrack Recording

- 48-track digital recording at up to 96kHz/24-bit
- 32-bit floating point audio file recording and playback with no loss of track count
- Advanced integrated synchronization and machine control, including HDTV tri-level sync
- Time-stamped Broadcast Wave file format

- Front-panel transport, track arming, project management and metering functions
- Built-in 80-GB hard drive
- Built-in DVD+RW for backup, transfer and restore
- ±12.5% varispeed
- Grid-style editing

Workstation/Mixing

- Turn-key operation: no software conflicts to troubleshoot
- Graphic user interface for editing, mixing, plug-ins and meters
- 48-channel mixing at 96kHz
- 32-bit floating point mixer resolution
- 6 stereo returns (60 inputs at mixdown)

- 24 busses, 6 aux sends, stereo master bus
- Full dynamic automation
- Dynamics, 4-band parametric EQ and 4 VST plug-in inserts per channel

Rear Panel Connections

- 48 TDIF digital inputs and outputs
- Stereo SPDIF In and Out
- Two 24-channel option slots support analogue, ADAT or AES/EBU expansion cards
- BNC Video In and Thru, auto-terminating
- BNC Word Clock In, Out and Thru, autotermi-nating
- MIDI In and Out
- TRS balanced 6.3-mm SMPTE In and Out
- 6.3-mm foot switch input



Mixer section

- 64 mixing channel modules (48 full-function channels plus 16 “simple” channels)
- 24 busses, 12 aux sends, 48 direct outputs, one stereo bus
- Four-band EQ and dynamics on each full-function channel
- Full dynamics processing with compressor/expander and gate on each full-function channel
- Two high-quality digital effects including reverb by TC Works
- Dedicated full-channel section for direct access to module parameters

- 24 plus one touch-sensitive motorised faders
- 24 rotary encoders with ring LED indicators
- Five mixer layers (Ch. 1–24, Ch. 25–48, Ch. 49–64, Busses 1–24, Auxes 1–12) and a Remote layer for DAW control
- Built-in Talkback microphone
- Flexible I/O routing
- Three surround matrices
- On-board automation
- Total recall by project management

Inputs and outputs

- 24 XLR balanced MIC inputs with phantom power and 20dB PAD
- 24 TRS balanced Line inputs
- 24 TRS unbalanced inserts
- Eight assignable sends/returns
- XLR balanced stereo output
- RCA unbalanced 2-track input
- Two XLR AES/EBU digital I/O
- Two coaxial SPDIF digital I/O
- ADAT I/O (8 channels)
- Three TDIF-1 I/O (24 channels)

- Four expansion slots (support for optional FireWire, ADAT, AES/EBU, Analogue, and TDIF cards)
- Two sets of control-room monitor outputs with six assignable source selects
- Two headphone outputs
- BNC Word Clock input and output
- RCA Time Code input
- MIDI In, Out, Thru/MTC Out

General

- Sampling frequency: 44.1, 48, 88.2, 96kHz, Resolution: 24-bit
- The same mixing specifications in 48k and 96k modes
- Dedicated Cascade port for cascading of two DM-4800 mixers
- DAW interconnection via optional FireWire card (IF-FW/DM MKII)
- Transport Control
- Surround monitoring with optional expansion card (IF-SM/DM)
- CompactFlash card for saving / loading internal data
- Includes Tascam Mixer Companion software (Windows XP & Mac)
- Driverless USB connection to computer
- Backup/restore data via USB
- GPI functionality
- Foot switch connector for hands-free operation of selected functions
- RS-422 serial port to control external equipment
- Optional Meter bridge (MU-1000)

- Dimensions without Meterbridge (W x H x D): 933 x 230 x 824 mm
- Weight: 35 kg



Mixer section

- 48 mixing channels (32 channel inputs plus 16 returns)
- 16 bus outputs, eight AUX outputs, one stereo output
- Four-band EQ and dynamics on each input channel (CH 1 to 32)
- Dynamics on each output (16 busses, eight Aux sends, and Stereo output)
- Built-in effects processing
- On board TC Reverb
- 16 plus one touch-sensitive motorised faders

- SEL/SOLO/MUTE keys and rotary encoder with ring LED on each channel strip (16 channel strips)
- Five mixer layers (Ch. 1–16, Ch. 17–32, Returns 1–16, Busses 1–16, Auxes 1–8) and Control layer with banks
- Built-in Talkback microphone
- Flexible I/O routing
- Surround mixing capability
- On-board automation
- Total recall by project management

IF-SM/DM
Surround monitoring card

IF-FW/DM MKII
FireWire card

Inputs and outputs

- 16 XLR balanced MIC inputs with phantom power and 20dB PAD
- 16 TRS balanced Line inputs
- 16 TRS unbalanced inserts
- Four assignable sends/returns
- XLR balanced stereo output
- RCA unbalanced Studio output
- RCA unbalanced 2-track inputs
- TRS balanced Control Room output
- Two XLR AES/EBU digital I/O

- Two Coaxial SPDIF digital I/O
- ADAT I/O (8 channels)
- Three TDIF-1 I/O (24 channels)
- Two headphone outputs
- RCA TC input
- Two audio I/O slots (support for optional FireWire, ADAT, AES/EBU, Analog, and TDIF cards)

General

- Sampling frequency: 44.1, 48, 88.2, 96kHz, Resolution: 24-bit
- The same mixing specifications in 48k and 96k modes
- Word Sync In, Out/Thru
- MIDI In, Out, Thru/MTC Out
- Dedicated Cascade port for cascading of two DM-3200 mixers
- Foot switch connector for hands-free operation of selected functions
- Optional Meter bridge (MU-1000)
- DAW interconnection via optional FireWire card (IF-FW/DM MKII)
- Transport Control
- Surround monitoring with optional expansion card (IF-SM/DM)
- CompactFlash card for saving / loading internal data
- Includes Tascam Mixer Companion software (Windows XP & Mac)
- Driverless USB connection to computer
- Backup/restore data via USB
- GPI functionality

- Dimensions (W x H x D):
700 x 230 x 824 mm
- Weight: 24 kg

DM OPTIONS OPTIONS FOR DM SERIES MIXING CONSOLES



IF-SM/DM

- Surround monitor card
- Installs into expansion of DM series mixers
- Eight analogue output channels
- 44.1k, 48k, 88.2k, 96k operation
- Flexible downmixing
- Uses the mixer's Pink Noise generator for monitor calibration
- Individual channel Mute/Solo
- Individual channel delay compensation
- Surround Bass Management

IF-FW/DM MKII

- FireWire interface card
- Simple FireWire (IEEE-1394) connection to computer for audio and control data exchange
- 44.1k, 48k, 88.2k, 96k operation
- Two FireWire jacks for daisy-chaining other FireWire components
- Dedicated MIDI Input and Output ports
- Mac OS X and Windows XP compatibility
- Dedicated control panel for Windows and Macintosh

MU-1000

- 24-channel meterbridge with timecode display

IF-AN/DM

- 8-channel analogue I/O card

IF-TD/DM

- 8-channel TDIF-1 I/O card

IF-AD/DM

- 8-channel ADAT I/O card (44,1/ 48 kHz only)

IF-AE/DM

- 8-channel AES/EBU card

PW-1000CS

- Cascade cable for interconnection of two equal DM mixers

US-1641 USB AUDIO/MIDI INTERFACE



- USB audio interface with 16 inputs and 4 outputs
- 8 mic/line inputs with phantom power and level indicators on front panel
- Two 6.3-mm balanced line/instrument inputs on front
- Four more balanced line inputs on rear panel
- Four line outputs
- Separate stereo 6.3-mm monitor output
- Stereo digital I/O (input: SPDIF, output: switchable between SPDIF and AES/EBU)
- Analogue and digital inputs can be used simultaneously
- 16-channel MIDI I/O
- Separate monitor and headphone level controls
- Zero-latency hardware monitoring
- USB 2.0 interface
- Up to 96 kHz sampling rate at 24-bit resolution without reducing the number of inputs
- Supports Windows XP, Windows Vista 32 and Mac OS X (10.4 and higher)
- Supports Intel Mac
- Includes Steinberg Cubase LE4 (Mac/PC)
- Includes Tascam Continuous Velocity Piano
- 1-U rackmount chassis
- Dimensions (W x D x H): 483 mm x 280 mm x 44 mm
- Weight: 3.2 kg



- Audio interface with 10 inputs and 4 outputs
- 24-bit/96-kHz audio resolution
- Four balanced XLR/TRS mic/line inputs with phantom power
- Four additional balanced TRS line inputs (one switchable to Guitar)
- Analogue inserts on channels 1 and 2
- SPDIF stereo digital input and output
- Balanced TRS monitor outputs
- Headphone output with level control
- Two MIDI inputs and outputs
- Assignable footswitch jack
- Nine 60-mm touch-sensitive moving faders
- Eight channel strips with solo, mute and select buttons and record arm indicator
- Four assignable encoders
- Transport controls, jog/shuttle wheel and many other surface controls*
- Emulates Mackie® HUI® and Mackie® Control™ in addition to included native mode control plug ins
- Includes GigaStudio™ 3 LE software sampling instrument
- Includes Steinberg® Cubase® LE software
- Dimensions (W x H x D): 486 x 83 x 386 mm
- Weight: 6.5 kg



Control Surface

- Highly programmable control surface for digital audio workstation (DAW) system
- 9 x 100-mm touch-sensitive motorized faders
- Mixing parameters / HDR edit / Transport / Record function / Automation control
- Shortcut keys for various popular audio software applications
- Compatible with a wide variety of popular DAW applications
- Mackie Control Emulation
- 1 SPDIF digital Input (selectable between Coaxial and Optical)
- 1 SPDIF digital output (selectable between Coaxial and Optical)
- 1 ADAT digital I/O (8 in and 8 out)
- 4 MIDI inputs, 4 MIDI outputs
- Fully independent 4x4 MIDI routing matrix
- Word Clock input and output (BNC)
- Headphone output

Other features

- 2 x IEEE-1394 (FireWire) interfaces
- ASIO and WDM compatibility for Windows 2000 / XP
- ASIO, Sound Manager and Core Audio compatibility for Mac OS 9 / OS X
- LED indicators (Functional status, Control key, Signal level, Control surface mode, MIDI and other I/O status)
- Stand-alone mixer mode (18 in and 2 out, Trim, Phantom, Insert, Solo, Mute, Pan, Fader)
- Footswitch connector (6.3-mm jack)
- Dimensions (W x H x D): 582 x 136 x 481 mm
- Weight: 10.3 kg

Audio/MIDI Interface

- High-resolution professional multi-channel audio interface (18 in and 10 out)
- 24-bit resolution
- 44.1/48/88.2/96kHz sampling frequencies
- 24-bit AD/DA converters
- 8 analogue Mic (XLR) / Line (6.3-mm jack) balanced inputs with 48V Phantom power (Ch. 8 switchable Mic/Line / Guitar)
- 8 analogue inserts
- 8 analogue balanced line outputs (6.3-mm stereo jacks, CH1-2: for Stereo outputs/ CH1-8: for Surround monitoring)

DR-1 PORTABLE STEREO RECORDER



- Portable, handheld recording
- MP3 and WAV file recording and playback
- Selectable recording formats:
 - WAV (16/24-bit)
 - MP3 (32-, 64-, 96-, 128-, 192-, 256- or 320-KBit/s)
- 48-kHz or 44.1-kHz recording resolution
- Built-in high-quality stereo condenser microphone
- Variable-angle microphone mechanism with A/B configuration
- Switchable low-cut filter (80 Hz or 120 Hz)
- Analogue auto gain control
- Analogue limiter to prevent clipping
- Effects can be applied to the input signal (11 presets and two variable parameters)
- Overdub feature to add narration, singing or instruments to an existing recording
- Stereo mic input for an external stereo microphone (mini jack)
- Mono input to connect an external mono microphone (standard 6.3-mm jack)
- Stereo line input for other recording sources (mini jack)
- Headphone/Line output (stereo mini jack)
- Playback features include:
 - Loop, repeat and single playback
 - Folder or playlist playback
 - MP3 ID3 tag display (up to version 2.4)
 - Vocal/instrument cancel feature with selectable range and pan point
 - Pitch control (–50 % to +16 %)
 - VSA function (tempo control without affecting the key)
 - Key control (to tune the playback sound up or down by 1–6 semitones)
 - Chromatic tuner and oscillator with calibration
 - Metronome
- 1-Gigabyte SD card included
- USB 2.0 connection for file transfer to/from computer
- Rechargeable Lithium-ion battery
- AC adapter available as an option
- Dimensions (W x H x D):
70 x 27 x 135 mm
- Weight: 0.208 kg (including battery)

HD-R1 SOLID-STATE AUDIO RECORDER



- 1-U rack-mount solid-state audio recorder
- Uses popular, secure CompactFlash card as recording media
- USB host interface for USB flash cards
- Audio data formats: PCM (16-/24-bit), MP3
- Sampling rates supported: 44.1, 48KHz
- XLR balanced mic/line I/O with switchable 20-dB PAD
- Phantom power (switchable on rear panel, front LED indicator)
- Euroblock terminal I/O
- Unbalanced RCA I/O
- Rotary analogue input level controls on front panel
- SPDIF Digital I/O (coaxial and optical)
- RJ-45 Ethernet interface (100-Mbit/s) for file transfer and control
- RS-232 interface for control
- D-sub 25-pin parallel remote control interface
- Direct Play via parallel interface
- Power-on play (start playback when power comes up)
- Headphones jack with level control on front panel
- Input Through and Auto Fade functions
- Input monitoring/mixing of live stereo input along with playback
- Play modes: Program, Folder, Shuffle, Interval, and more



- **SS-R1:** Solid state stereo audio recorder
 - Uses popular, secure CompactFlash recording media
 - No moving mechanism for high reliability
 - Supports WAV and MP3 file recording/playback.
- **SS-CDR1:** Combination solid state / CD-RW stereo audio recorder
 - Applicable media for CD-RW recorder: CD-R, CD-RW, CD-R-DA, CD-RW-DA
 - Supports MP3 file recording/playback to/from CD (ISO 9660 format) and memory card
 - Supports WAV file recording/playback to/from memory card
 - CD to memory (copy and ripping) and memory to CD (MP3: copy in ISO 9660, WAV: CD-DA)
- 16 bit resolution at 44.1/48 kHz sampling rates (sampling rate converter included)
- MP3 bit rates from 64 KBit/s to 384 KBit/s
- Remarkable space-saving 1-U rack-mount
- Ideal for replacement of current cassette deck or MD/CD recorder
- Long time recording for meeting minute recording
- Long time playback and various playback modes for sound installations (all, folder, play list, single, random, repeat)
- Edit functions for WAV files on memory card (divide, combine, erase, rename)
- Pitch control, key control, auto cue, auto ready
- Power-on play (timer function)
- Fade in/out on playback
- Sync recording
- Auto track increment (level, DD, time), manual track increment
- Instant start
- XLR balanced analogue I/O
- RCA unbalanced analogue I/O
- Coaxial SPDIF digital I/O
- Mono mix analogue output
- D-sub 9-pin RS-232C serial control port
- D-sub 25-pin parallel control port
- Computer keyboard (PS/2) input for folder/file name editing and remote control
- Wired remote control included
- Dimensions (W x H x D): 483 x 44 x 300 mm
- Weight: 3.3 kg



- **Recording**
 - Recording media: Compact Flash, Micro Drive
 - 16 or 24 bit resolution at sample rates from 44.1 kHz through 192 kHz
 - Writes uncompressed, time-stamped Broadcast Wave file format
 - Pre-Record Cache and Retake function
 - Audio files continually re-saved
- **Inputs and Outputs**
 - Balanced XLR mic inputs with phantom power, PAD, and analogue peak limiter
 - Low-cut filter on each analogue input
 - Unbalanced stereo line input (RCA)
 - Unbalanced stereo line output (RCA)
 - SPDIF digital input and output (coaxial)
 - Headphone output (6.3-mm stereo jack)
 - Built-in mono microphone and speaker
 - FireWire port for connection with PC/Mac
 - Analogue level controls
- **Synchronization**
 - SMPTE/LTC timecode input (XLR)
 - Chase incoming SMPTE timecode
 - Video clock input
 - Tri-level sync support
- Frame Lock, Lock and Release and flexible Freewheel settings
- Pull-up and Pull-down sample rates
- **Convenience**
 - Familiar tape machine-style layout and function
 - Easily enter/edit file names via Computer Keyboard
 - Large, angled, uncluttered LC display
 - Shortcut keys and LED indicators for frequently-accessed functions
 - Recessed Compact Flash slot
 - Runs on eight AA batteries (Alkaline, NiMH or NiCd) or DC power adapter
 - Approximately 5.5 hours of operating time on battery power
 - Durable and lightweight housing
 - Supplied accessories: Shoulder Belt, Carrying Case, AC adapter (CS-P2)
 - Dimensions (W x H x D): 260 x 196 x 65 mm
 - Weight: 1.2 kg

DV-RA1000 HD AUDIO/DSD MASTER RECORDER WITH HARD DISK DRIVE



- High-quality stereo recording at up 192kHz/4-bit or DSD format
- Records audio data directly to internal Hard Disk Drive
- Records Broadcast Wave and DSDIFF files to DVD±RW media (computer-readable UDF 1.5 disk format)
- Records directly to CD-R/RW media (standard CD-DA format)
- Copies audio data from HDD to DVD±R for archiving purposes
- Duplicates discs or copies audio files between optical discs and the Hard Disk Drive
- DVD±RW recordings fully compatible with DV-RA1000 and vice-versa
- Multiband compression and 3-band EQ for master processing
- Fade in/out and editing functions
- USB 2.0 port
- Balanced XLR and unbalanced RCA I/O
- Balanced AES/EBU inputs and outputs
- SDIF-3 DSD I/O for external conversion and processing of DSD audio
- Dedicated input level soft control
- Adjustable maximum output level
- ±6% pitch control
- Word Sync In, Out, Thru
- Wired remote control and RS-232C serial port
- PS/2 keyboard connector
- User-definable function keys
- Large, backlit LC display
- Power-on Play feature
- Auto track increment
- Various playback modes including auto cue, auto ready and A/B play
- Headphone output

Applications

- Master Recording
- Mastering
- Live Recording
- Sound Installations
- Dimensions (W x H x D): 483 x 95 x 357 mm
- Weight: 6.8 kg

DV-RA1000 HIGH-DEFINITION AUDIO/DSD MASTER RECORDER



- High-quality stereo recording at up to 192kHz/24-bit or DSD format
- Records standard CD-DA format to CD-R/RW media, and Broadcast Wave and DSDIFF files to DVD+RW media
- Multiband compression and 3-band EQ for master processing
- Fade in/out and editing functions
- USB 2.0 port
- Balanced XLR and unbalanced RCA I/O
- Balanced AES/EBU inputs and outputs
- SDIF-3 DSD I/O for external conversion and processing of DSD audio
- Dedicated input level soft control
- Adjustable maximum output level
- ±6% pitch control
- Word Sync In, Out, Thru
- Wired remote control and RS-232C serial port
- PS/2 keyboard connector
- User-definable function keys
- Large, backlit LC display
- Power-on Play feature
- Auto track increment
- Various playback modes such as auto cue, auto ready, single/continuous, program and A/B play
- Headphone output
- Supports UDF disk format

Applications

- Master Recording
 - Record your final mix at the best possible digital resolution for CD or SACD
- Mastering
 - Transfer analogue masters to DSD or 192kHz for remastering to SACD or DVD audio
- Live Recording
 - Connect to a top-quality mixer or mic preamp for stunning classical recording
- Sound Installations
 - Put in any system where you would use a professional CD recorder
- Dimensions (W x H x D): 483 x 95 x 357 mm
- Weight: 6.8 kg

MD-350 MINI DISC RECORDER / REPRODUCER



- Cost-effective professional-grade 2-track MiniDisc recorder/reproducer
- 2U height, 19" rack-mount construction
- Versatile edit functions (DIVIDE, ERASE, MOVE, COMBINE, TRACK TITLE, DISC TITLE)
- Front panel keyboard connection (PS/2 type)
- 20-bit ADC/DAC, ATRAC 4.5
- Pitch control –12 %
- Repeat Play function
- Timer Record / Play function
- Programme and Shuffle Play mode
- Auto Ready, Auto Space and Auto Cue
- 2 stereo Longrecord/play modes: LP2 (1/2 speed), LP4 (1/4 speed)
- Monaural recording mode
- On-board Sample rate converter
- SCMS
- RCA coaxial digital input
- XLR balanced and phono unbalanced analogue inputs and outputs
- RC-32 wireless infrared remote controller supplied as a standard accessory
- Dimensions (W x H x D): 483 x 94 x 313 mm
- Weight: 5.5 kg

MD-CD1 MKII PROFESSIONAL MINI DISC RECORDER / CD PLAYER



- **CD deck**
- Compatible with CD-R, CD-RW, CD-R Digital Audio and CD-RW Digital Audio media
- Plays MP3 files on ISO 9660 CDs (also inside directories)
- ID3 tag display (information on artist and title names stored inside MP3 files)
- NEW: Pitch control (change tempo and key simultaneously from +16 % to –50 %)
- Key original function
- Fade-in / fade-out (1–30 seconds)
- Individual digital and analogue outputs
- Transport control via computer keyboard
- Edit functions (divide, combine, move tracks)
- Individual digital I/O (optical) and analogue I/O (RCA)
- Computer keyboard connector for title input and external control
- **General**
- 4 x speed MiniDisc duplication
- MD–CD continuous playback
- Continuous, single, random, or program (up to 99 songs) play
- All, single, or A–B repeat play
- Auto Cue and Auto Ready functions
- Power-on play function
- Headphones output with level control
- Input sample rate converter (32 to 48 kHz)
- RS-232C serial control
- Balanced input/output kit available as an option (LA-MC1)
- Wireless remote control included
- NEW: Remote receiver can be deactivated
- Compact 2U rack-mount chassis
- Dimensions (W x H x D): 483 x 94 x 308 mm
- Weight: 5.4 kg
- **MD deck**
- Stereo, Mono, LP2 and LP4 recording/playback
- Individual input level controls (L/R) for analogue recording
- Pitch control (± 12.5 %)
- Auto track increment
- NEW: Time track increment (adds a track ID every 1 to 10 minutes)
- Sync recording function
- Fade-in / fade-out (1–30 seconds)
- Overwrite recording

CD-A500/A700 CD-PLAYER / AUTO-REVERSE CASSETTE DECK



CD Player

- Independent operation for CD player
- Shuffle, Single and Program play
- 3-way repeat function (single/auto/A-B)
- Intro check
- $\pm 12\%$ pitch control (CD-A700 only)
- Auto space
- Timer play
- XLR balanced output (CD-A700 only)
- RCA unbalanced output

Cassette Deck

- Independent operation for cassette deck
- Auto reverse
- Bi-directional record/replay
- CPS (Computomatic Program Search) with status display
- $\pm 12\%$ pitch control

- CD sync
- Return-to-zero
- Dolby B noise reduction
- Timer play/recording
- XLR balanced I/O (CD-A700 only)
- RCA unbalanced I/O

General

- Full function remote control
- Control I/O (CD-A700 only)
- Headphone jack with level control
- Independent CD and tape function display
- CD-tape continuous play
- 3U standard rack-mount construction
- Dimensions (W x H x D):
483 x 145 x 290 mm
- Weight (CD-A500): 6.4 kg
- Weight (CD-A700): 6.6 kg

CD-160 MKII CD PLAYER



- Compatible with CD, CD-R and CD-RW discs using CD-DA standard
- Plays MP3 files on CDs
- Plays MP3 files inside directories
- Search function for MP3 tracks
- Displays MP3 information (ID3 tags)
- Pitch control (-5% to $+7\%$)
- Skip/search function
- Intro-check function
- Repeat playback (ONE/ALL)
- Program playback (up to 64 tracks)
- Shuffle playback
- Coaxial digital output (RCA, SPDIF)
- Optical digital output (TOSLINK, SPDIF)
- RCA unbalanced analogue output
- Headphone output with level control
- Electronic shock protection
- Infrared remote control included (RC-160)
- 2U rack-mount construction
- Dimensions (W x H x D):
481 x 95 x 298 mm
- Weight: 4.1 kg

CD-01U, CD-01U Pro COMPACT CD PLAYERS



- 1U rack-mountable CD player
- CD-R/RW and MP3 playback
- 12cm/8cm CD playback
- 20 sec. anti-shock memory
- Slot-in CD drive mechanism
- RCA unbalanced analogue output
- SPDIF (optical) digital output
- Frame accurate search
- Playback Mode (Single, All, Program: up to 99)
- Repeat Mode (Single, All, A-B)
- Time Display (Track Elapsed / Track Remaining / Total Remaining)
- Auto Cue, Auto Ready
- $\pm 12.5\%$ Pitch Control (in 0.1% steps) with Rotary Encoder knob
- Key Original function (change speed only)
- Call function (return to the point where playback last started)
- Intro Check feature
- Resume feature
- Fade In/Out (up to 10 sec, in 0.5-sec steps)
- Power-on play
- Eject block function
- Headphone output with dedicated volume control
- Mono output
- Serial control (RS-232C, D-sub 9-pin)
- Relay play or Fader start
- Last mode memory (Playback mode / Program / Repeat mode / Time display)
- End Of Message
- LC display
- Wireless remote control included
- Removable power cable

Additional features on CD-01U Pro

- XLR balanced analogue output
- XLR AES/EBU digital output
- D-sub 15-pin parallel control
- Dimensions (W x H x D):
482 x 44 x 325 mm
- Weight (CD-01U/CD-01U Pro):
3.5 kg / 3.7 kg

DV-D01U PROFESSIONAL DVD PLAYER



- 1U rack-mountable DVD player
- Accepts multiple DVD and CD formats:
 - DVD Video
 - DVD Audio
 - VCD (Video CD)
 - SVCD (Super Video CD)
 - CD-DA (Digital Audio CD)
- Compatible with many file formats:
 - Audio: MP3, WMA, WAV
 - Image: JPEG
 - Video: ASF, MPEG-2/MPEG-1, DivX
- Dolby Digital Surround
- DTS Digital Surround
- RCA analogue stereo audio output
- Optical SPDIF digital audio output
- Composite video output
- S-Video output
- Component video output
- HDMI (High Definition Multimedia Interface)
- Progressive scan
- FVPP (Fine Video Picture Processing)
- HDCP compliant (encryption standard)
- (Power-on Play (Timer Play function)
- RS-232C serial port
- Infrared wireless remote controller
- Dimensions (W x H x D):
482 mm x 51 mm x 269 mm
- Weight: 2.6 kg

CD-RW900sl PROFESSIONAL CD RECORDER



- Records to pro CD-R, CD-RW and consumer CD-R and CD-RW media
- NEW: Selectable read speed to increase playability of low-grade or damaged media
- 24-bit A/D and D/A converters
- Input sample rate converter (32 kHz to 48 kHz)
- Independent L/R analogue input level control
- Digital volume
- Sync recording function
- Auto or manual track division
- Digital fade in/out from 1 to 30 sec in 1-sec steps
- Rec mute function to record silence
- Erase/un-finalize CD-RWs
- Supports CD-Text
- PS/2 keyboard can be used for CD-Text input and as a remote control
- Timer function (play when power comes on)
- Continuous, single, random, or program play (up to 99 songs)
- All, single, or A-B repeat play
- NEW: Auto Cue function
- NEW: Selectable skip mode: jump by track or in 1-minute steps
- NEW: Auto Ready function
- Plays MP3 files on CDs (128 Kb/s only)
- Plays MP3 files inside directories
- Shows MP3 tags on Display (ID3)
- Pitch control ($\pm 16\%$ in 0.1 to 1.0% steps)
- Key control (± 6 semi-tones)
- Key original function (change tempo without changing key)
- SPDIF coaxial digital I/O
- Optical TOS digital I/O
- RCA unbalanced analogue I/O
- Wireless remote control included
- NEW: Infra-red remote receiver can be deactivated
- 2U rack mount construction
- Dimensions (W x H x D): 483 x 93 x 308 mm
- Weight: 4.9 kg

CD-RW901sl PROFESSIONAL CD RECORDER



- Records to pro CD-R, CD-RW and consumer CD-R and CD-RW media
- NEW: Selectable read speed to increase playability of low-grade or damaged media
- 24-bit A/D and D/A converters
- XLR balanced analogue I/O
- RCA unbalanced analogue I/O
- Coaxial and optical digital I/O (SPDIF)
- AES/EBU digital I/O
- Automatic input sample rate converter (to 44.1 kHz, defeatable)
- L/R analogue input level control
- Digital volume
- Sync recording function
- Auto track increment by level with trim function, Time Track Increment: Adds a CD track ID every 1 to 10 minutes
- Set index marks, Index search function
- NEW: Selectable skip mode: jump by track, by index, or in 1-minute steps
- Digital fade in/out from 1 to 30 sec in 1-sec steps
- Rec mute function to record silence
- Erase/un-finalize CD-RWs
- All, single, or A-B repeat play
- Continuous, single, random, or program play (up to 99 songs)
- Auto Cue, Auto Ready, Call, and Incremental Play functions
- Plays MP3 files on CDs
- Plays MP3 files inside directories
- Shows MP3 tags on display (ID3)
- Pitch control ($\pm 16\%$ in 0.1 to 1.0% steps)
- Key control (± 6 semi-tones)
- Key original function (change tempo without changing key)
- Selectable copy ID, CD-Text support
- Computer keyboard connector for text input and transport control
- RS-232C serial control (9-pin D-sub)
- Parallel control (15-pin D-sub)
- Power-on play: Starts CD playback when power is applied
- NEW: Continuous recording with two CD-RW901SL
- Wired remote control included
- 2U rack-mount construction
- Dimensions (W x H x D): 483 x 93 x 309 mm
- Weight: 5.4 kg

CC-222 SL CD RECORDER / CASSETTE DECK



General

- Continuous playback between decks
- Individual RCA unbalanced analogue inputs/ outputs on both decks
- NEW: Line output 2 selectable between tape-only output and CD or tape output, with priority to tape
- Dedicated analogue input level controls
- Coaxial and optical digital input/output for CD Recorder
- RIAA phono input for turntable connector
- Headphones output with level control
- Wireless remote controller included
- 3U rack-mountable

CD-RW Recorder

- CD-R, CD-RW, CD-R-DA, CD-RW-DA discs
- MP3 file playback, including navigating through directories of MP3 files
- 24-bit A/D and D/A converters
- Digital input level control
- Selectable copy ID
- Automatic sampling rate converter
- Auto Track Increment by level with trim
- Time Track Increment
- Auto Space function

- Sync record with adjustable sound level
- Fade in and out (1 to 30 seconds in 1-sec. steps)
- Record Mute
- Single play, continuous play, random play, and program play (maximum 99 songs)
- Repeat function (single track, all tracks, program, random, A-B section)
- Intro check function
- Erase CD-RW discs
- Un-finalize CD-RW discs
- Power-on play: Starts CD playback when power is applied

Cassette deck

- Auto reverse
- Dolby B noise reduction
- $\pm 10\%$ pitch control
- RTZ (Return to Zero)
- Record Mute
- CPS search function
- Dimensions (W x H x D): 483 x 138 x 295 mm
- Weight: 7.4 kg

CD-355 5-DISC CD CHANGER



- Carousel-type CD changer for five discs
- Supports CD and CD-R/RW media
- MP3 CD playback
- Program Play across all five discs (up to 32 tracks)
- Shuffle Play
- Intro Check
- Repeat function (Single track or All tracks)
- Time display (Elapsed, Remain, Total Elapsed, Total Remain)
- MP3 Tag display (ID3)
- Keys for direct access to 5 discs (on front panel and remote control)
- Number keys on remote control for direct track access
- Fluorescent display with Music Calendar
- XLR balanced output
- RCA unbalanced output
- 2 SPDIF digital audio outputs (optical and coaxial)
- 1-bit dual D/A converter
- 8x oversampling rate
- 3-U rack-mountable
- Full-function remote control included
- Dimensions (W x H x D): 482 mm x 131 mm x 368 mm
- Weight: 7.2 kg

CD-X1500 / CD-X1700 DJ DUAL CD PLAYERS



CD-X1700 only

- 2 integrated samplers (10 seconds each), reverse playback of samples, $\pm 32\%$ pitch control on samples, Sampler level control
- MP3 playback with pitch bending and tempo changes
- On-board digital effects (Echo, Flanger, Filter), syncable to BPM
- Reverse play

CD-X1500 and CD-X1700

- Continuous play, single play, and up to 30 tracks program play
- Stutter play
- Seamless A-B loop
- 3 flash start/cue points
- Auto cue and auto ready
- $\pm 0, 8, 16, 32$ and 100% tempo control (by slider or by tapping on the TAP key)
- Key Original function prevents original key from being affected by tempo changes
- Pitch bending function
- $\pm 16\%$ key control

- BPM counter (CD-X1500: with Tap key, CD-X1700: automatic/with Tap key)
- Scratch and Brake functions
- TT-LINK®-Accessory connector for the TT-M1 CD Scratch Controller
- Filter effect (CD-X1500)
- Track memory stores various playback settings for up to 100 tracks
- Start playback from an external device which supports fader start (i.e. X-9, X-17, X-15, XS-3, etc.)
- Relay play between both units
- Anti-shock memory
- Digital SPDIF output
- Supports CD-R/RW discs
- Compact 2U/3U controller size
- Dimensions (W x H x D),
CD drive unit:
482 x 94 x 272 mm (including feet)
Controller:
CD-X1500: 482 x 88 x 83 mm (19", 2U)
CD-X1700: 482 x 132 x 83 mm (19", 3U)

202MKIV DUAL AUTO REVERSE CASSETTE DECK



- Two cassette decks in one unit
- Continuous, bi-directional playback or recording over both decks
- Parallel recording on both decks
- Normal and high speed dubbing capability
- Synchro reverse dubbing
- Intro check function
- Computomatic Program Search (CPS)
- Blank scan function
- Pitch control ($\pm 12\%$)
- Dolby NR and HX Pro

- Unbalanced RCA inputs and outputs
- Microphone input with separate level control for mixing recordings
- Power-on playback/recording (Timer function)
- Headphones jack
- 19-inch rack-mountable chassis
- Dimensions (W x H x D):
482 x 139 x 286 mm
- Weight: 5.5 kg



- Two independent decks with separate input and output connections
- Simultaneous recording and playback
- Individual recording and playback
- Continuous recording and playback
- Two Heads per deck
- Quick auto reverse
- Sync reverse
- Normal or hi-speed dubbing
- Input level control
- Dolby B and C noise reduction
- Dolby HX Pro
- $\pm 10\%$ pitch control
- Up to ten units can be connected together to form 20 deck array for real-time duplication
- Multiple tape dubbing, continuous playback and logging
- Cascade connector for multiple units duplication system
- RS-232 Control Interface
- Control I/O for continuous and relay recording and playback for multiple units operation
- Optional WR-7000 Synchro cable
- RC-322 wired remote control included
- Optional LA-322 balanced XLR I/O kit
- 19" 3U rack-mount construction
- Dimensions (W x H x D): 483 x 140 x 305 mm
- Weight: 7.8 kg



- VL-A4**
- 4-inch two-way monitor
 - 35 W active bi-amped design
 - Direct radiating bass reflex 4-inch woofer with rear air port
 - 1-inch dome tweeter
 - Magnetic shielding
 - Frequency response (1 W, 1 m): 90 Hz – 23 kHz, ± 3 dB
- VL-A5**
- 5.25-inch two-way monitor
 - 90 W active bi-amped design
 - Direct radiating bass reflex 5.25-inch woofer with front-mounted port
 - LF control adjusts response at 150 Hz or 800 Hz
 - HF control adjusts response at 3 kHz or 8 kHz
 - Low cut filter for use with optional LF-S8 subwoofer
 - Deep cabinet design and separated amplifier space for rich low frequency playback
 - 1-inch dome tweeter
 - Magnetic shielding
 - Frequency response (1 W, 1 m): 38 Hz – 23 kHz, ± 3 dB

- VL-A8**
- 8-inch two-way monitor
 - 140 W active bi-amped design
 - Direct radiating bass reflex 8-inch woofer with front-mounted port
 - LF control adjusts response at 150 Hz or 800 Hz
 - HF control adjusts response at 3 kHz or 8 kHz
 - Low cut filter for use with LF-S8 subwoofer
 - Deep cabinet design and separated amplifier space for rich low frequency playback
 - 1-inch dome tweeter
 - Magnetic shielding
 - Frequency response (1 W, 1 m): 30 Hz – 21 kHz, ± 3 dB
- LF-S8**
- 8-inch subwoofer
 - 50 W active design
 - Direct radiating bass reflex 8-inch woofer
 - Deep cabinet design for rich LF output
 - Low frequency cut control
 - Cascade output for additional subwoofer
 - Magnetic shielding
 - Frequency response (1 W, 1 m): 30 Hz – 120 Hz, ± 3 dB

LA-80 / LA-81 / LA-40 MKII



LA-80

- 8 channels of unbalanced to bal. conversion

LA-81

- 8 channels of balanced to unbal. conversion

LA-40 MKII

- 4 channels of balanced to unbalanced conversion plus 4 channels of unbalanced to balanced conversion

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