

Oct, 2013

Product Spec Sheet

Stereo Master Recorder/ADDA Converter

DA-3000



■ Main Features

High-Performance Master Recorder

- >Stereo recording at high sampling frequencies of up to 192kHz PCM and 5.6MHz DSD
- >Variety of inputs and outputs to handle diverse recording situations
- >Upgraded user interface
- >Simultaneous multitrack recording and playback with multiple cascaded units

● High-Quality Audio Circuits Enable Use for the DA-3000 as an ADDA Converter

- >Dual mono circuits eliminate interference between left and right channels
- >Low noise achieved with fully balanced circuitry and high-quality AD converter
- >Numerous high-quality parts selected carefully using evaluation tests
- >Power supply section and high-precision TCXO supports high audio quality
- >Fanless design eliminates unwanted noise during monitoring and operation
- X Don' t use a wireless remote controller when you use multiple units except using the cascade function.
- Please take 1U or more of blank space above the DA-3000 for ventilation.

■ Features at a glance

- · Stereo recording to SDHC card or CF card
- PCM recording format: BWF (44.1/48/88.2/96/176.4/192kHz, 16/24bit)
- DSD recording format: DSDIFF/DSF (2.8/5.6MHz)
- SD card slot (supports 4 to 32GB SDHC cards)
- CF card slot (supports UDMA)
- WAV file playback
- · Cascade function enables simultaneous operation of multiple units
- · Recording 2 mono files from stereo input possible
- Mark functions can be used set up to 99 points per file (mark information can be used in software that supports BWF format)
- When recording, designation of the recording file folder possible
- · Synchronized recording using level, stop time and recording start delay time setting



- Input level can be adjusted in 0.5dB step
- Using <u>automatic track incrementing function</u>, new files can be created automatically while continuing to record when a condition (level, file size, digital input) set in advance occurs
- Manual track incrementing function can be used whenever you like to create a new track while continuing to record
- <u>Automatic mark functions</u> can be used to easily check problems (levels, word clock unlocking) detected during recording
- · File name format can be set to either a user-defined word or the date and time
- Repeat playback function (all files or single file)
- · Folder playback function can be used to play all files in a folder
- · Playlist function allows files to be programmed in advance for playback
- · Divide and delete functions can be used to manage files that are already recorded
- · UNDO function can be used to cancel the previous operation
- · USB host port supports copying between USB flash drives and CF/SDHC cards
- · File names can be changed
- Direct location possible when a USB keyboard is connected
- · Word clock master can be set to Internal, Word input or Digital inputs
- · Analog input and output reference levels can be set to -9/-14/-16/-18/-20dBFS
- Digital input has a sampling rate converter (supports 32 to 216kHz)
- · Audio files prepared on a computer can be played back (if in a format supported for playback by this unit)
- Oscillator function (440Hz, 1kHz, 10kHz)
- · Input monitoring function allows input signals to be output without recording
- Updating is possible
- · EI core transformer used in power supply section
- · Dual mono circuits eliminate interference between left and right channels
- Fully-balanced circuits realize low noise
- 128x64 OEL display with a wide viewing angle
- 24-dot stereo LED level meters with adjustable brightness make checking levels easy
- · TCXO with 1ppm precision
- · Backup memory stores settings even when the power is off
- · Fanless design eliminates unwanted noise
- Aluminum front panel harmonizes with other studio equipments design
- Operation possible using included RC-10 wireless remote control
- Standard 1/4" headphones jack provides 45mW/ch output
- USB port for USB keyboard (supports USB 1.1)
- USB port for USB flash drive (supports USB 2.0)
- XLR digital input/output (supports AES3-2003 and IEC60958-4:AES/EBU formats)
- RCA Coaxial digital input/output (supports IEC60958-3:S/P DIF format)
- BNC digital input/output for DSD (supports SDIF-3 and DSD-raw formats)
- RCA analog unbalanced input/output
- XLR analog balanced input/output
- EIA 1U rackmount size
- RoHS compliant
- * Don' t use a wireless remote controller when you use multiple units except using the cascade function. Please take 1U or more of blank space above the DA-3000 for ventilation.



■ Specifications

Media and formats

Supported media

SD Supports 4GB to 32GB SDHC cards (Media ejection method: push-push)

CF Supports 1GB to 64GB Type I CF cards
USB (Playback and copying only) Supports 2GB to 64GB USB flash drives

Recording and playback formats

PCM BWF (rec/play) / WAV (playback only), 44.1/48/88.2/96/176.4/192kHz, 16/24bit

DSD DSDIFF / DSF, 2.8224/5.6448MHz

Number of channels 2 mono (or 1 stereo)

Inputs and outputs

ANALOG INPUTS (UNBALANCED)

Standard input level

Maximum input level

Minimum input level

ACA pin jacks

-10dBV

+6dBV

-22dBV

Input impedance $22k\Omega$ or greater

ANALOG INPUTS (BALANCED) XLR-3-31 (1:GND, 2:HOT, 3:COLD)

Standard input level +4dBu, +6dBu (only when maximum input level is +15dBu)

Maximum input level +15/+18/+20/+22/+24dBu (switchable in menu)

Minimum input level -8dBu, -6dBu (only when maximum input level is +15dBu)

Input impedance $10k\Omega$ or greater ANALOG OUTPUTS (UNBALANCED) RCA pin jacks
Standard output level -10dBVMaximum output level +6dBVOutput impedance 200Ω or less

ANALOG OUTPUTS (BALANCED) XLR-3-31 (1:GND, 2:HOT, 3:COLD)

Standard output level +4dBu, +6dBu (only when maximum input level is +15dBu)

Maximum output level +15/+18/+20/+22/+24dBu (switchable in menu)

Output impedance 100Ω or less

PHONES Standard 6.3mm (1/4') stereo jack

Maximum output 45mW + 45mW (into 32Ω load, 0.1% distortion)

DIGITAL IN (COAXIAL) RCA pin jacks

Format IEC60958-3 (S/P DIF)

Input frequency $44.1/48/88.2/96/176.4/192 \text{kHz (when SRC OFF)}, 32 \sim 216 \text{kHz (when SRC ON)}$

Allowable frequency deviation +/-100ppm (when SRC OFF)

DIGITAL OUT (COAXIAL) RCA pin jacks

Format IEC60958-3 (S/P DIF)

 DIGITAL IN (AES/EBU)
 XLR-3-31 (1:GND, 2:HOT, 3:COLD)

 Format
 AES3-2003/IEC60958-4 (AES/EBU)

Input frequency 44.1/48/88.2/96/176.4/192kHz (when SRC OFF), 32~216kHz (when SRC ON)

Allowable frequency deviation +/-100ppm (when SRC OFF)

DIGITAL OUT (AES/EBU) XLR-3-32 (1:GND, 2:HOT, 3:COLD)

Format AES3-2003/IEC60958-4 (AES/EBU)

DIGITAL IN (SDIF-3)

BNC connectors

Format

SONY SDIF-3/DSD-raw

Clock synchronization frequency 44.1kHz

DIGITAL OUT (SDIF-3) BNC conne

DIGITAL OUT (SDIF-3)

Format

BNC connectors

SONY SDIF-3/DSD-raw

Clock synchronization frequency 44.1kHz



WORD SYNC IN BNC connectors
Input level 5V TTL equivalent

Input impedance 75 Ω +/-10% (built-in terminal ON/OFF switch)

Input frequency 44.1/48/88.2/96/176.4/192kHz

Allowable frequency deviation +/-100ppm WORD SYNC THRU/OUT BNC connectors Output level 5V TTL equivalent Output impedance $75\Omega +/-10\%$

Output frequency 44.1/48/88.2/96/176.4/192kHz (built-in THRU/OUT switch)

Frequency stability +/-1ppm 以下 (Ta=25℃)

USB (DEVICE) 4-pin USB A-type

Protocol USB2.0 HIGH SPEED (480Mbps)

Power rating DC5.0V 0.5A USB (KEYBOARD) 4-pin USB A-type

Protocol USB1.1 HIGH SPEED (12Mbps)

Power rating DC5.0V 0.2A

Audio performance (rec/play)

Distortion (THD+N, 1kHz) 0.003% or less (Ref:-16dB/BALANCE, JEITA), 0.005% or less (UNBALANCE, JEITA)

S/N

PCM 113dB or higher (Ref:-20dB/BALANCE, JEITA), 111dB or higher (UNBALANCE, JEITA)
DSD 106dB or higher (Ref:-20dB/BALANCE, AES-17, 20k LPF), 104dB or higher

Frequency response (UNBALANCE, AES-17, 20k LPF)
Fs 44.1/48kHz 20Hz - 20kHz, +0.1/-0.5dB (JEITA)
Fs 88.2/96kHz 20Hz - 40kHz, +0.1/-1dB (JEITA)
Fs 176.4/192kHz 20Hz - 80kHz, +0.1/-6dB (JEITA)

DSD 20Hz - 50kHz, +0.1/-3dB (JEITA) / 20Hz - 100kHz, +0.1/-12dB (JEITA)

Crosstalk 108dB or higher (JEITA)

Audio performance (playback)

Distortion (THD+N, 1kHz) 0.003% or less (BALANCE, JEITA), 0.001% (UNBALANCE, JEITA)

S/N

PCM 118dB or higher (Ref:-20dB/BALANCE, JEITA), 116dB or higher (UNBALANCE, JEITA)
DSD 116dB or higher (Ref:-20dB/BALANCE, AES-17, 20k LPF), 114dB or higher

Frequency response (UNBALANCE, AES-17, 20k LPF)
Fs 44.1/48kHz 20Hz - 20kHz, +0.1/-0.1dB (JEITA)
Fs 88.2/96kHz 20Hz - 40kHz, +0.1/-0.3dB (JEITA)
Fs 176.4/192kHz 20Hz - 80kHz, +0.1/-3dB (JEITA)

DSD 20Hz - 50kHz, +0.1/-3dB (JEITA) / 20Hz - 100kHz, +0.1/-12dB (JEITA)

Control input and output

Infrared receiver TASCAM RC-10 wireless remote controller

General

Power AC120V, 60Hz (US/Canada Version)

AC220-240V, 50-60Hz (UK/EUR/Australia Version)

Power consumption 24W

Dimensions (WxHxD mm)/weight 483 x 45 x 305 / 4.2kg

Operating temperature range $0 \sim +40^{\circ}$ C

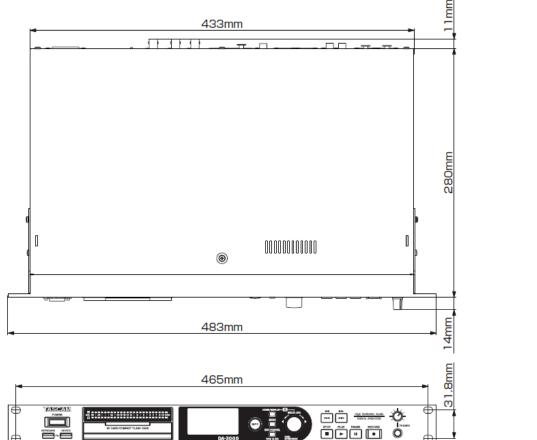
Standard accessories 3P power cord, Wireless remote controller (TASCAM RC-10), coin battery for testing

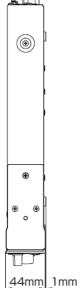
remote control (preinstalled), screw kit for rack-mounting, warranty card, Owner's

manual



■ Dimensions





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