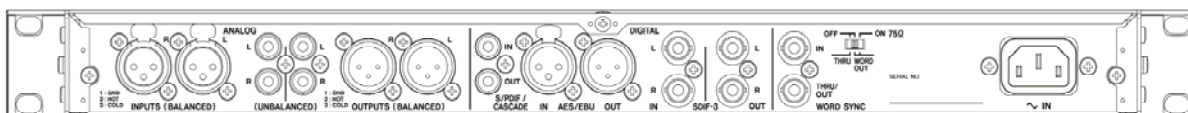
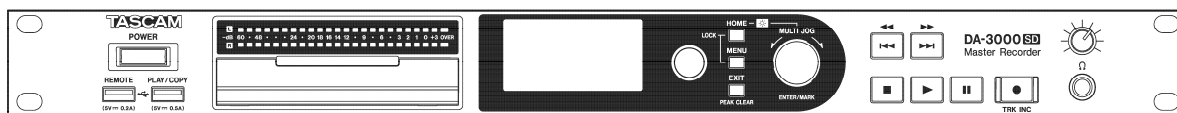


Product Spec Sheet

2ch Audio Recorder

DA-3000SD



[Media and formats]

Recording media

SD cards: 512 MB–2 GB SD supported
 (Media ejection: 4 GB–32 GB SDHC supported
 push–push type) 64 GB–512 GB SDXC supported

Playback media

SD cards: 512 MB–2 GB SD supported
 (Media ejection: 4 GB–32 GB SDHC supported
 push–push type) 64 GB–512 GB SDXC supported
 USB flash drives

Recording/playback formats

PCM mode

Fs: 44.1, 48, 88.2, 96, 176.4 and 192 kHz
 Bit depth: 16 and 24 bit
 Playback: BWF (.wav extension)
 Recording: BWF and WAV (both .wav extension)

DSD mode

Fs: 2.8224 and 5.6448 MHz
 Playback and: DSDIFF (.dff extension)
 recording: DSF (.dsf extension)

Number of channels

2 mono/1 stereo

[Inputs and outputs]

Analog inputs

Unbalanced

Connectors: RCA pin jacks
 Reference input level: –10 dBV
 Maximum input level: +6 dBV
 Input impedance: 22 kΩ or higher
 Minimum input level: –22 dBV

Balanced

Connectors: XLR–3–31 (1: GND, 2: HOT, 3: COLD)
 Reference input level: +4 dBu or +6 dBu (only when maximum input level is +15 dBu)
 Maximum input level: +24 dBu, +22 dBu, +20 dBu, +18 dBu or +15 dBu (use menu to set)
 Input impedance: 10 kΩ or higher
 Minimum input level: –8 dBu or –6 dBu (only when maximum input level is +15 dBu)

Analog outputs**Unbalanced**

Connectors: RCA pin jacks
Reference output level: -10 dBV
Maximum output level: +6 dBV
Output impedance: 200 Ω or less

Balanced

Connectors: XLR-3-32 (1: GND, 2: HOT, 3: COLD)
Reference output level: +4 dBu or +6 dBu (only when maximum input level is +15 dBu)
Maximum output level: +24 dBu, +22 dBu, +20 dBu, +18 dBu or +15 dBu (set in menu)
Output impedance: 100 Ω or less

 Ω (headphone) jack

Connector: 6.3 mm (1/4") standard stereo jack
Maximum output: 45 mW + 45 mW (32 Ω load, 0.1% distortion)

Digital input**S/PDIF / CASCADE (unbalanced)**

Connector: RCA pin jack
Format: IEC60958-3 (S/PDIF)
Input frequency: 44.1, 48, 88.2, 96, 176.4 or 192 kHz
(when SRC OFF)
32 kHz-216 kHz (when SRC ON)
Allowable frequency deviation: ± 100 ppm (when SRC OFF)

AES/EBU (balanced)

Connector: 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 or 192 kHz
(when SRC OFF)
32 kHz-216 kHz (when SRC ON)
Allowable frequency deviation: ± 100 ppm (when SRC OFF)

SDIF-3 (unbalanced)

Connectors: BNC connector \times 2 (L, R)
Format: SONY SDIF-3/DSD-raw
Clock sync frequency: 44.1 kHz (when 2.8 MHz or 5.6 MHz)

Digital output**S/PDIF / CASCADE (unbalanced)**

Connector: RCA pin jack
Format: IEC60958-3 (S/PDIF)

AES/EBU (balanced)

Connector: XLR-3-32 (1: GND, 2: HOT, 3: COLD)
Format: AES3-2003/IEC60958-4 (AES/EBU)

SDIF-3 (unbalanced)

Connectors: BNC connector \times 2 (L, R)
Format: SONY SDIF-3/DSD-raw
Clock sync frequency: 44.1 kHz (when 2.8 MHz or 5.6 MHz)

Other connectors**WORD SYNC IN jack**

Connector:	BNC
Input level:	equivalent to 5 V TTL
Input impedance:	75 Ω \pm 10% (includes terminal on/off switch)
Input frequency:	44.1, 48, 88.2, 96, 176.4 or 192 kHz
Allowable frequency deviation:	\pm 100 ppm

WORD SYNC THRU/OUT

Connector:	BNC
Output/ Input level:	equivalent to 5 V TTL
Output impedance:	75 Ω \pm 10%
Output frequency:	44.1, 48, 88.2, 96, 176.4 or 192 kHz (includes THRU/OUT on/off switch)
Frequency stability:	\pm 1 ppm or less (Ta = 25°C)

USB (PLAY/COPY)

Connector:	USB A-type 4-pin
Protocol:	USB 2.0 HIGH SPEED (480 Mbps)
Power supply rating:	DC 5.0 V 0.5 A

USB (REMOTE)

Connector:	USB A-type 4-pin
Protocol:	USB 1.1 FULL SPEED (12 Mbps)
Power supply rating:	DC 5.0 V 0.2 A

[Audio performance]**Recording****Distortion (THD+N, 1 kHz)**

PCM 24 bit mode and DSD mode

0.003% or less (Ref: -16 dB/BALANCED, JEITA)

0.005% or less (UNBALANCED, JEITA)

S/N

PCM 24 bit mode

113 dB or higher (Ref: -20 dB/BALANCED, JEITA)

111 dB or higher (UNBALANCED, JEITA)

DSD mode

106 dB or higher (Ref: -20 dB/BALANCED, AES-17 20k LPF)

104 dB or higher (UNBALANCED, AES-17 20k LPF)

Frequency response

PCM mode

Fs = 44.1 or 48 kHz

20 Hz-20 kHz: +0.1 dB, -0.5 dB (JEITA)

Fs = 88.2 or 96 kHz

20 Hz-40 kHz: +0.1 dB, -1 dB (JEITA)

Fs = 176.4 or 192 kHz

20 Hz-80 kHz: +0.1 dB, -6 dB (JEITA)

DSD mode

20 Hz-50 kHz: +0.1 dB, -3 dB (JEITA)

20 Hz-100 kHz: +0.1 dB, -12 dB (JEITA)

Crosstalk (1 kHz)

PCM 24 bit mode and DSD mode

105 dB or higher (JEITA)

Playback

Distortion (THD+N, 1 kHz)

PCM 24 bit mode and DSD mode

0.003% or less (BALANCED, JEITA)

0.001% or less (UNBALANCED, JEITA)

S/N

PCM 24 bit mode

118 dB or higher (Ref: -20 dB/BALANCED, JEITA)

116 dB or higher (UNBALANCED, JEITA)

DSD mode

116 dB or higher (Ref: -20 dB/BALANCED, AES-17 20k LPF)

114 dB or higher (UNBALANCED, AES-17 20k LPF)

Frequency response

PCM mode

F_s = 44.1 or 48 kHz

20 Hz-20 kHz: ±0.1 dB (JEITA)

F_s = 88.2 or 96 kHz

20 Hz-40 kHz: +0.1 dB, -0.3 dB (JEITA)

F_s = 176.4 or 192 kHz

20 Hz-80 kHz: +0.1 dB, -3 dB (JEITA)

DSD mode

20 Hz-50 kHz: +0.1 dB, -3 dB (JEITA)

20 Hz-100 kHz: +0.1 dB, -12 dB (JEITA)

[Control input]

Infrared sensor

RC-10 wireless remote control

[General]

Power

AC 120 V, 60 Hz (U.S.A./Canada)

AC 220 V-240 V, 50 Hz-60 Hz (U.K./Europe/Australia)

Power consumption

24W

Dimensions (W × H × D)

483 × 45 × 305 (mm) / 19 × 1.75 × 12 (in)

Weight

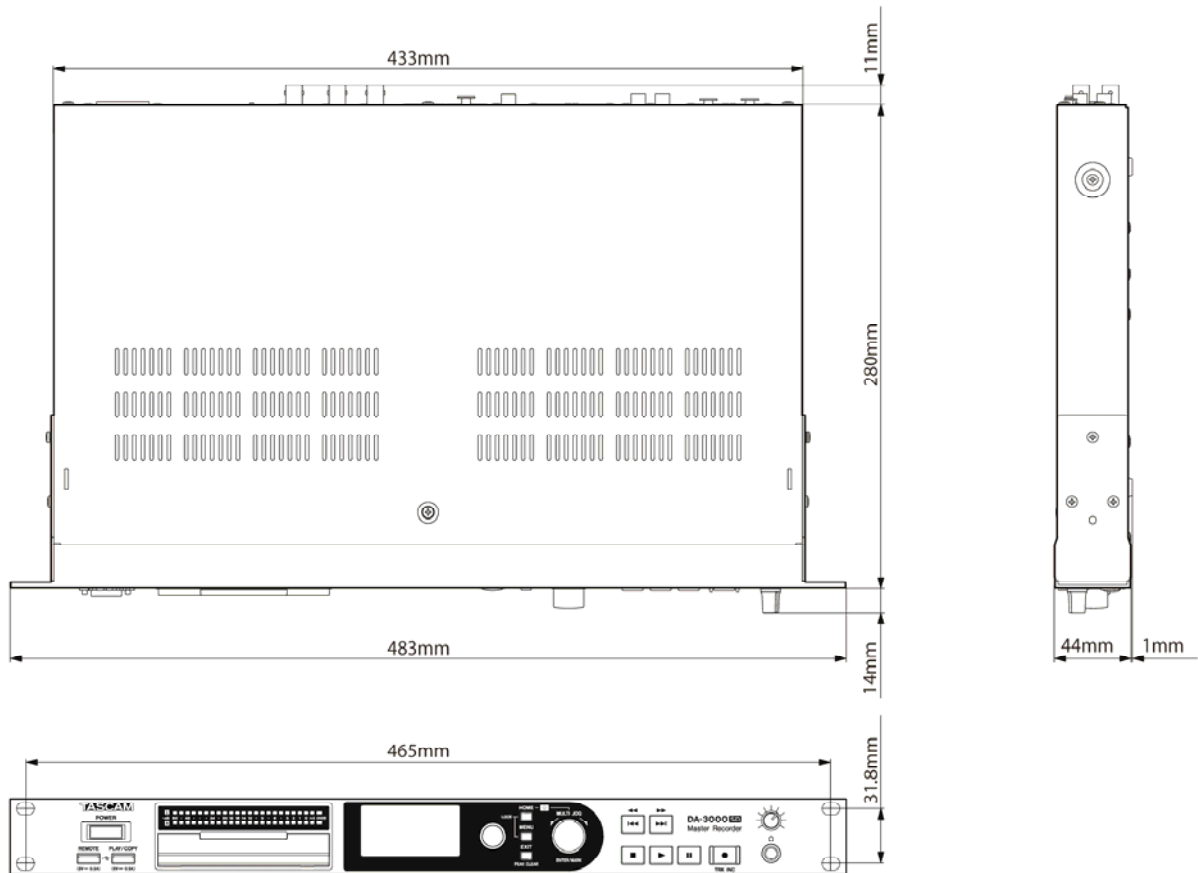
4.1 Kg (9.04 lb)

Operating temperature range

0-40° C (32-104° F)

- 0 dBu = 0.775 Vrms
- 0 dBV = 1 Vrms

[Dimensional drawings]



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