

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 × 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 × 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 ±10% (includes terminal on/off switch)
Input frequency:	44.1, 48, 88.2, 96, 176.4 or 192 kHz
Allowable frequency deviation:	±100 ppm

WORD SYNC THRU/OUT

Connector:	BNC
Output level:	equivalent to 5 V TTL
Output impedance:	75 Ω ±10%
Output frequency:	44.1, 48, 88.2, 96, 176.4 or 192 kHz (includes THRU/OUT on/off switch)
Frequency stability:	±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

12 – Specifications

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)

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

24 W

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

Frequency response

PCM mode

Fs = 44.1 or 48 kHz

20 Hz–20 kHz: ±0.1 dB (JEITA)

Fs = 88.2 or 96 kHz

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

Fs = 176.4 or 192 kHz

20 Hz–80 kHz: +0.1 dB, -3 dB (JEITA)

12 – Specifications

Media and formats

Recording media

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

Playback media

SD cards:	512 MB–2 GB SD supported
(Media ejection: push-push type)	4 GB–32 GB SDHC supported 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 recording:	DSDIFF (.dff extension) 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 k Ω 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 k Ω 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)