

TASCAM HS-20 Two-channel Solid-State Recorder/Player for Network Applications

Recording media	SD/SDHC card, CF card(Compact Flash)
File system	FAT32 (4GB or more), FAT16 (2GB or less)
File format	BWF(Poly), WAV
Number of channels	2
Quantization bit rate	16/24bit
Sampling frequency	44.1k / 48k / 88.2k / 96k / 176.4k / 192k Hz
Clock reference	INTERNAL, WORD IN, VIDEO IN, DIGITAL IN
Timecode formats	23.976 / 24 / 25 / 29.97DF / 29.97NDF / 30DF / 30NDF
Analog audio inputs	
BALANCED	XLR-3-31(1:GND/2:HOT/3:COLD)
Input impedance	4.3k ohms
Nominal input level	+4dBu (D.ref.level -9dBFS :+6dBu)
Maximum output level	+15dBu (D.ref : -9dBFS, A.input:+6dBu) +18dBu (D.ref : -14dBFS, A.input:+4dBu) +20dBu (D.ref : -16dBFS, A.input:+4dBu) +22dBu (D.ref : -18dBFS, A.input:+4dBu) +24dBu (D.ref : -20dBFS, A.input:+4dBu) D.Ref:Digital Ref. Level A.input:Analog Input Ref. Level
UNBALANCED	RCA pin jacks
Input impedance	3.9k ohms
Nominal input level	-10dBV
Maximum output level	+6dBV
Analog audio outputs	
BALANCED	XLR-3-32(1:GND/2:HOT/3:COLD)
Output impedance	100ohms
Nominal output level	+4dBu (D.ref.level -9dBFS :+6dBu)
Maximum output level	+15dBu (D.ref : -9dBFS, A.input:+6dBu) +18dBu (D.ref : -14dBFS, A.input:+4dBu) +20dBu (D.ref : -16dBFS, A.input:+4dBu) +22dBu (D.ref : -18dBFS, A.input:+4dBu) +24dBu (D.ref : -20dBFS, A.input:+4dBu) D.Ref:Digital Ref. Level A.input:Analog Output Ref. Level
UNBALANCED	RCA pin jacks
Output impedance	100ohms
Nominal output level	-10dBV
Maximum output level	+6dBV
PHONES	6.3mm(1/4") stereo phone jack
Maximum output level	45mW + 45mW (THD+N 0.1% or less, 32ohms loaded)
Digital audio inputs	
AES/EBU	XLR-3-31
Input impedance	110 ohms +/-20%
Format	AES3-2003 / IEC60958-4 (AES/EBU) IEC60958-3(S/PDIF)
Supported sampling frequency	44.1k / 48k / 88.2k / 96k / 176.4k / 192k Hz (Single / Double / Quad) When SRC is ON, the receivable range is 32k - 192k Hz
S/PDIF	RCA pin jack
Input impedance	75 ohms

Format	AES3-2003 / IEC60958-4 (AES/EBU) IEC60958-3(S/PDIF)
Supported sampling frequency	44.1k / 48k / 88.2k / 96k / 176.4k / 192k Hz (Single / Double / Quad) When SRC is ON, the receivable range is 32k - 192k Hz
Digital audio outputs	
AES/EBU	XLR-3-32
Format	AES3-2003 / IEC60958-4 (AES/EBU)
Supported sampling frequency	44.1k / 48k / 88.2k / 96k / 176.4k / 192k Hz (Single / Double / Quad)
S/PDIF	RCA
Format	IEC60958-3(S/PDIF)
Supported sampling frequency	44.1k / 48k / 88.2k / 96k / 176.4k / 192k Hz (Single / Double / Quad)
TIMECODE IN	BNC(SY-2)
Signal voltage amplitude	0.5-5Vp-p
Input impedance	10k ohm
Format	SMPTE 12M-1999 compatible
TIMECODE OUT	BNC(SY-2)
Signal voltage amplitude	2Vp-p
Output impedance	600 ohm
Format	SMPTE12M-1999 compatible
WORD/VIDEO IN	BNC
Input voltage	5V TTL (WORD IN) 1Vp-p (VIDEO IN)
Input impedance	75 ohm +/-10%
Input frequency (WORD)	44.1/ 48/ 88.2/ 96/ 176.4/ 192
Input frequency (VIDEO)	24/25/29.97/30 (NTSC/PAL black burst/HDTV Tri-Level)
WOED/VIDEO THRU/OUT	BNC (WORD THRU/WORD OUT selectable)
Output voltage	5V,TTL(WORD OUT)
Output impedance	75 ohm +/-10%
Input frequency	44.1/ 48/ 88.2/ 96/ 176.4/ 192
ETHERNET	RJ45
Supported standards	100BASE-TX,1000BASE-T
USB	USB A type 4 pin
Fromat	USB2.0 HIGH SPEED (480Mbps)
KEYBOARD	Mini DIN (PS/2)
CONTROL I/O	
REMOTE	RJ-45
PARALLEL	D-sub25pin
RS-422	D-sub 9-pin(SY-2)
RS-232C	D-sub9 pin
Power	AC100V-240V, 50/60Hz
Power consumption	22W
Dimensions	482.6(W) x 94(H) x 317.1(D)mm 19(W) x 3.7(H) x 12.5(D)inch
Weight	4.9kg, 10lb

Audio performance	
Frequency response Analog in to Analog out	20Hz-20kHz:+/-0.5dB (Fs:44.1/48kHz,JEITA) 20Hz-40kHz:+0.5dB/-2dB (Fs=88.2/96kHz,JEITA) 20Hz-80kHz:+0.5dB/-5dB (Fs=176.4/192kHz,JEITA)
Distortion Analog in to Analog out	0.005% or less (JEITA)

S/N ratio
Analog in to Analog out

100dB or more (JEITA)