

# TASCAM US-20x20 20-in/20-out USB 3.0 Interface with Mic Pre and Digital Mixer

## Modes

	US-16x08	US-20x20
Sampling frequency		
USB2.0	44.1k/48k/88.2k/96k Hz	
USB3.0	-	44.1k/48k/88.2k/96k/176.4k/192k Hz
Quantization bit rate	16/24bit	
Analog audio inputs (Front)		
<b>MIC IN (BALANCED)</b>	IN 1-8	
Connector	XLR-3-31(1:GND, 2:HOT, 3:COLD)	
Input impedance	2.4k ohms	
Nominal input level		
GAIN:MAX	-68dBu (0.0003Vrms)	
GAIN:MIN	-12dBu (0.195Vrms)	
Maximum input level	+8dBu (1.947Vrms)	
Gain	56dB	
<b>INST IN (UNBALANCED)</b>	IN 9-10	IN 1-2
Connector	6.3mm(1/4") TS-jack(T:HOT, S:GND) (When set to "INST" at LINE/INST switch)	
Input impedance	1M ohms or more	
Nominal input level		
GAIN:MAX	-57dBV (0.0014Vrms)	-68dBV (0.0004Vrms)
GAIN:MIN	-12dBV (0.251Vrms)	
Maximum input level	+8dBV (0.2512Vrms)	
Gain	45dB	56dB
<b>LINE IN (BALANCED)</b>	IN 9-10 (When set to "LINE" at LINE/INST switch)	IN 3-8
Connector	6.3mm(1/4") TRS-jack(T:HOT, R:COLD, S:GND)	
Input impedance	10k ohms	
Nominal input level		
GAIN:MAX	-41dBu (0.0069Vrms)	
GAIN:MIN	+4dBu (1.228Vrms)	
Maximum input level	+24dBu (12.282Vrms)	
Gain	45dB	56dB
Analog audio inputs (Rear)		
<b>LINE IN (UNBALANCED)</b>	IN 11-16	IN 9-10
Connector	6.3mm(1/4") TS-jack(T:HOT, S:GND) (When set to "-10dBV" at LEVEL switch)	
Input impedance	10k ohms or more	
Nominal input level	-10dBV (0.3162Vrms)	
Maximum input level	+10dBV (3.162Vrms)	
<b>LINE IN (BALANCED)</b>	IN 11-16	IN 9-10
Connector	6.3mm(1/4") TRS-jack(T:HOT, R:COLD, S:GND) (When set to "+4dBu" at LEVEL switch)	
Input impedance	10k ohms	
Nominal input level	+4dBu (1.228Vrms)	
Maximum input level	+24dBu (12.1282Vrms)	

Digital audio inputs		
<b>COAXIAL</b>		
Connector	-	RCA pin jack
Format	-	IEC60958-3(S/PDIF)
Input impedance	-	75 ohm
Input level	-	0.5Vp-p / 75 ohm
<b>OPTICAL (S/MUX)</b>		
Connector	-	OPTICAL (JEITA RC-5720C)
Format	-	Multi-channel optical format (S/MUX4 is available in 88.2k/96k/176.4k/192k Hz)
Analog audio outputs		
<b>LINE OUT (BALANCED)</b>	OUT 1-8	OUT 1-10
Connector	6.3mm(1/4") TRS-jack(T:HOT, R:COLD, S:GND)	
Output impedance	100ohms	
Nominal output level	+4dBu (1.228Vrms)	
Maximum output level	+24dBu (12.277Vrms)	
Digital audio outputs		
<b>COAXIAL</b>		
Connector	-	RCA pin jack
Format	-	IEC60958-3(S/PDIF) / IEC60958-4(AES/EBU)
Input impedance	-	75 ohm
Input level	-	0.5Vp-p / 75 ohm
<b>OPTICAL (S/MUX)</b>		
Connector	-	OPTICAL (JEITA RC-5720C)
Format	-	Multi-channel optical format (S/MUX4 is available in 88.2k/96k/176.4k/192k Hz)
MIDI IN / OUT		
Connector	Din 5-pin	
Format	Standard MIDI format	
WORD IN		
Connector	-	BNC Permissible frequency deviation at the time of external synchronization
Input voltage	-	2.0Vpp to 5.0Vpp
Input impedance	-	75 ohm +/-10%
Input level	-	+/-100ppm
WORD OUT		
Connector	-	BNC with OUT/THRU select switch
Output voltage	-	2.0Vpp (75ohm loaded)
Output impedance	-	75 ohm +/-10%
Sampling frequency	-	44.1k/48k/88.2k/96k/176.4k/192k Hz
USB		
Connector	USB B type 4-pin	USB3.0/2.0 B type
Format	USB2.0 HIGH SPEED mass storage class	USB3.0 SuperSpeed (5Gbps)/USB2.0 HIGH SPEED (480Mbps)
PHONES		
Connector	6.3mm(1/4") stereo phone jack	
Maximum output level	70mW+70mW or more (THD+N 0.1% or less, 32ohms loaded)	
Power	Dedicated AC adapter (GPE248-120200-Z, included)	
Power consumption	12W	20W

Dimensions	52(W) x2.32(H) x8.62(D) inch 445(W) x59(H) x219(D) mm	52(W) x2.32(H) x8.7(D) inch 445(W) x59(H) x222(D) mm
Weight	2.8kg / 6.11lb	2.7kg / 5.95lb
Operating temperature	5 to 35■C	
Accessories	Rack mount adapter, USB cable, User's manual, warranty card, dedicated AC adapter (GPE248-120200-Z)	Rack mount adapter, USB2.0 cable, USB3.0 cable, User's manual, warranty card, dedicated AC adapter
<b>Audio performance</b>		
Frequency response		
<b>LINE OUT(BALANCED)</b>		
44.1k/48k Hz	20Hz to 20kHz, +/-0.3dB(JEITA)	
88.2k/96k Hz	20Hz to 40kHz, +/-0.3dB(JEITA)	
176.4k/192k Hz	-	20H to 80kHz■+/-0.5dB(JEITA)
THD	0.008% or less	0.005% or less
<b>S/N ratio</b>	100dB or more	104dB or more
Crosstalk	100dB or more	