

# Specifications

## Tascam Series 120i

General ratings	
Sampling frequencies	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
Quantization bit depth	16/24-bit
Analogue audio inputs	
Mic inputs (when the input switch set to MIC/LINE)	XLR-3-31 (1: GND, 2: HOT, 3: COLD)
Input impedance	1.5 k $\Omega$
Nominal input level	-64 dBu (0.0005 Vrms, GAIN knob at MAX) -6 dBu (0.388 Vrms, GAIN knob at MIN)
Maximum input level	+10 dBu (2.45 Vrms)
Maximum gain	58 dB
Instrument inputs (when the input switch is set to INST)	6.3-mm standard TS jack (Tip: HOT, Sleeve: GND)
Input impedance	$\geq 1$ M $\Omega$
Nominal input level	-64 dBV (0.0006 Vrms, GAIN knob at MAX) -6 dBV (0.501 Vrms, GAIN knob at MIN)
Maximum input level	+10 dBV (3.162 Vrms)
Maximum gain	58 dB
Line inputs (when the input switch set to MIC/LINE)	6.3-mm TRS jack (Tip: HOT, Ring: COLD, Sleeve: GND)
Input impedance	10 k $\Omega$
Nominal input level	-54 dBu (0.0015 Vrms, GAIN knob at MAX) +4 dBu (1.228 Vrms, GAIN knob at MIN)
Maximum input level	+24 dBu (12.282 Vrms)
Maximum gain	58 dB

## Analogue audio outputs

Line outputs (balanced)	6.3-mm TRS jack (Tip: HOT, Ring: COLD, Sleeve: GND)
Output impedance	230 $\Omega$
Nominal output level	+4 dBu (1.228 Vrms)
Maximum output level	+20 dBu (7.75 Vrms)
Headphone outputs (PHONES)	Standard 6.3-mm stereo jack
Maximum output power (THD+N $\leq$ 0,1 %, 32 $\Omega$ )	18 mW + 18 mW

## Digital audio inputs/outputs

OPTICAL IN (S/MUX) connector(s)	Optical (JEITA RC-5720C)
Signal format	Multi-channel optical format (Supports S/MUX when 88.2 kHz, 96 kHz, 176.4 kHz or 192 kHz.)

## Other inputs and outputs

USB	4-pin USB B-type
Transfer rate	USB 2.0 Hi-speed (480 MBit/s)
MIDI input	5-pin DIN
Format	Standard MIDI format
MIDI output	5-pin DIN
Format	Standard MIDI

## Audio performance

Mic amp EIN (equivalent input noise)	$\leq$ -129 dBu
Frequency response (mic/line input to computer)	
At 44.1/48 kHz	20 Hz – 20 kHz, +0/-0.4 dB (JEITA)
At 88.2/96 kHz	20 Hz – 40 kHz, +0/-0.8 dB (JEITA)
At 176.4/192 kHz	20 Hz – 80 kHz (JEITA)
S/N ratio	109 dB (Mic input to Computer, Gain knob at minimum, 20-kHz low-pass filter, A-weighted) 110 dB (Computer to Line output, MONITOR knob at maximum, 20-kHz low-pass filter, A-weighted)
Distortion (THD + N)	0,0016 % (Mic input to Computer, 1 kHz sine wave, Gain knob at minimum, 20-kHz low-pass filter)

	0,0023 % (Line input to Computer, 1 kHz sine wave, Gain knob at minimum, 20-kHz low-pass filter) 0,0014 % (Computer to Line output, 1 kHz sine wave, MONITOR knob at maximum, 20-kHz low-pass filter)
Crosstalk	≥100 dB (MIC/LINE input to LINE output 1-2, 1 kHz sine wave, gain knob at minimum)
<b>Computer system requirements</b>	
<b>Windows</b>	
Computer hardware requirements	Windows computer with a USB port that supports at least USB 2.0 or USB 3.0
CPU/processor speed	2 GHz or faster dual core processor (x86)
Memory	2 GB or more
<b>Mac</b>	
Computer hardware requirements	Mac with a USB port that supports at least USB 2.0 or USB 3.0
CPU/processor speed	2 GHz or faster dual core processor
Memory	2 GB or more
iOS device	Apple iOS device running iOS 10 or later
Supported audio drivers	Windows: USB Audio Class 2.0, ASIO 2.2, WDM (MME), MIDI Mac: Core Audio, Core MIDI iOS device: Core Audio for iPhone
<b>Power supply and other specifications</b>	
Power	DC 12 V AC adapter (PS-P1220E)
Power consumption	7.2 W
Dimensions (W x H x D)	186 mm x 65 mm x 160 mm
Weight	1.1 kg
Permissible operating temperature range	5–35 °C