

FT-ONE-OPT Datasheet

1. Specifications

Basic specifications

Temperature	0 to 40 °C
Humidity	30% to 85% (no condensation)
Power	+12 to +17 VDC Deliverable up to 1 km over fiber optic cables.
Consumption	212 W (232 W in full options)
Dimensions	232 (W) x 294 (H) x 480 (D) mm (excluding projecting parts)
Weight	13 kg (with full options: 14.1 kg)
Consumables (at 24-hour operation)	Cooling fan: Replace every 4 years (at room temperature) Button cell (for memory backup) CR2032: Replace every 5 years (at room temperature)

Technical specifications

4K High Speed mode	4K Video Output (CH A, CH B)	
3G-SDI	Each of four quarters broken down from 4K (3840 x 2160 pixel) images. 75Ω BNC x 8	
Output Format	1080/59.94p, 1080/50p	
HD High Speed mode	HD Video Output (CH A, CH B)	
HD-SDI	1920 x 1080 pixel images 75Ω BNC x 8	
Output Format	OUT1, OUT2 (of CH A and CH B): 1080/59.94i, 1080/50i OUT3, OUT4 (of CH A and CH B): 1080/59.94p, 1080/50p	
VF OUT/AUX		
HD-SDI	Down-converted from 4K video signal 75Ω BNC x 2	
Output Format	1080/59.94i, 1080/50i	
RET1, RET2 Outputs		
HD-SDI	Video signals sent to RET1 and RET2 inputs on FT-1BS	
Output Format	1080/59.94i, 1080/50i	
Lens Mount	PL mount	
Shutter Speed	Preset speeds between 1/frame rate and 1/50,000 sec. selectable	
Quantization	12-bit x RGB	
Memory Partition	1 to 16 segments	
Video Adjustment	Digital Gain	0.0 dB to +42.0 dB (+0.5 dB increments)
	Sensor Gain	0 dB, 3 dB, 6 dB, 9 dB, 12 dB
	White Balance	Semi-auto, or preset value

Audio Input	Audio data is embedded to SDI output signals. No audio data can be recorded in the built-in memory or SSD cartridge tapes.					
MIC IN	5-pin female XLR x 1 (1 stereo pair), balanced, high-impedance. Input level: -60 dBu, -50 dBu, -40 dBu Phantom power supply: +48 V / OFF					
AUDIO CH1/CH2	3-pin male XLR x2 (1 stereo pair), balanced, high-impedance Input level: -3 dBu / 0 dBu / +4 dBu					
Audio Output						
Embedded Audio	2 ch (1 stereo pair), 48 kHz, synchronous					
PHONE OUT	Stereo mini-Jack x 1 (1 stereo pair)					
Tally Output	F TALLY, mini-phone jack x 1, 300 mA at 5 VDC					
INCOM System						
INCOM 1/2	Dynamic microphone headset supported					
Genlock Input	BB: NTSC: 0.429 Vp-p, PAL: 0.45 Vp-p or, Tri-level Sync: 0.6 Vp-p 75Ω BNC x 1					
Genlock Mode	Internal sync, External sync (BB or Tri-level sync)					
Iris Control	Manual, Auto					
Trigger	Selectable from START, 10% to 45%, CENTER, 55% to 90%, END					
Trigger Signal Input	Input through buttons on the FT-ONE-OPT, GPI (contact signal), or remote control unit (option)					
Recording Duration						
	4K High Speed			HD High Speed		
	Recording Frame Rate (major)	Total recording time	Video clip size	Recording Frame Rate (major)	Total recording time	Video clip size
	24 fps	352.5 sec	4096×2304 pixels	24 fps	749.8 sec	1920×1080 pixels
	60 fps	141.7 sec		60 fps	299.9 sec	
	120 fps	70.5 sec		120 fps	149.9 sec	
	180 fps	47.0 sec		180 fps	99.9 sec	
	240 fps	35.2 sec		300 fps	59.9 sec	
	300 fps	28.2 sec		360 fps	49.9 sec	
	360 fps	23.5 sec		420 fps	42.8 sec	
	420 fps	20.1 sec		480 fps	37.4 sec	
	480 fps	17.6 sec		600 fps	29.9 sec	
	540 fps	15.6 sec		720 fps	24.9 sec	
	600 fps	14.1 sec		840 fps	21.4 sec	
	720 fps	11.7 sec		1000 fps	17.9 sec	
	780 fps	10.8 sec		1200 fps	14.9 sec	
	800 fps	10.5 sec		1440 fps	12.4 sec	

	816 fps	10.3 sec	4096×2160 pixels	1670 fps	10.7 sec	1920×888 pixels
	860 fps	9.8 sec		1680 fps	10.7 sec	
				1800 fps	9.9 sec	
				1980 fps	9.0 sec	
				2000 fps	8.9 sec	

SSD Cartridge (Option) Specifications

Model	FT-ONE2T	FT-ONE-1TL
Capacity	76,000 frames	38,000 frames
Recording speed	Appr. 27 sec/1,000 frames	Appr. 27 sec/1,000 frames
Playback frame rate	60 fps (max)	60 fps (max) *
Weight	0.6 kg	0.6 kg

* In rare cases, a frame may be output twice when playing back at a frame rate higher than 15 fps.

Options

FT-ONE2T	SSD cartridge (2 TB)
FT-ONE-1TL	Low-cost SSD cartridge (1 TB)
FT-1BS	Base Station * Camera optical fiber cable (LEMO) required for connection
FT-1RU FT-1RUA FT-1RUB	Remote control unit Including LAN cable (5 m x 1), and dedicated 16 VDC adaptor
FT-1READ	RAW to DPX data converter Including keyboard and mouse (FT-ONE-SSD Reader and FT-ONE Player installed)
FT-1RCP	Remote control panel (Including dedicated 16 VDC adaptor)
FT-1CDS	SSD Cartridge Docking Station (Including dedicated 16 VDC adaptor)

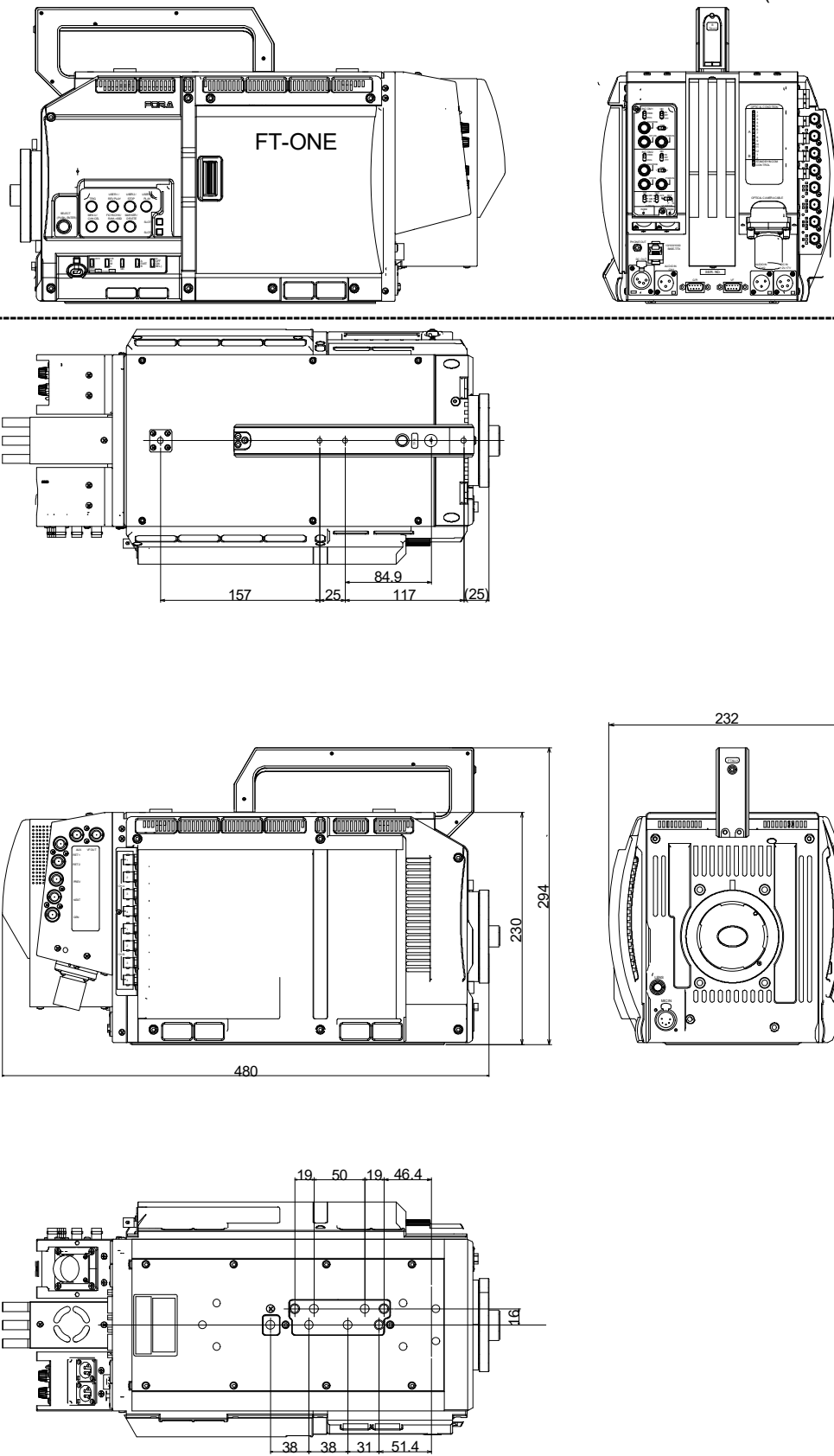
Accessories

AC adaptor and Operation manual

2. External Dimensions

FT-ONE-OPT

(All dimensions in mm.)



FT-ONE2T / FT-ONE-1TL

(All dimensions in mm.)

