

FT-ONE-SS4K Datasheet

1. Specifications

Camera Head basic specifications

Temperature	0°C to 40°C
Humidity	30% to 85% (no condensation)
Power	Supplied from the base station via optical camera cable or external power supply If supplied via optical camera cable: 100 V to 240 V AC (Max. 1 km) DC IN: DC +10V to +17V DC OUT: DC +10V to +17V (Max. 20 W)
Consumption	160 W (in isolated operation) 210 W (w/ viewfinder and lens)
Dimensions	172 (W) x 275 (H) x 417 (D) mm (excluding projecting parts)
Weight	7.1 kg
Consumables (at 24-hour operation)	Cooling fan: Replace every 4 years (at normal temperature)

Technical specifications

Image sensor, shutter, etc.	
Image sensor	CMOS Global shutter
Reflex type	Twin-lens reflex
Effective resolution	3840 x 2160
Sensor size	2/3 inch
Quantization	12-bit x RGB
Shutter speed	1/frame rate to 1/10,000 sec. (Preset stops)
Frame rate	Max. 1,000 fps
Electrical characteristics	
Sensitivity	2000 lux F8
Video S/N ratio	Average 60 dB
H resolution	1800
Geometric distortion	None
Optical	Built-in ND filter (Support planned in the future)
Lens mount	2/3 inch Bayonet-mount
Trigger signal input	From Remote Control Unit (FT-1RUB), GPI
Audio inputs	
MIC IN	x 1 (1 stereo pair), balance, high impedance Input level: -60 dBu / -50 dBu / -40 dBu Phantom power supply: +48 V / OFF

Audio output	
Embedded	2 channels (1 stereo pair), 48 kHz, synchronous
Video output	
VF1	(1920 x 1080i / 1920 x 1080p) / 59.94, 50 75Ω BNC x 2 Down-converted camera image or RET1/RET2 input image
Intercom system	
INCOM1 INCOM2	x 2 PRIV / LINE (producer line / engineer line)
External Interfaces	
Iris control	x 1 Manual / Auto
VF	Dedicated connection to CANON EVF-V70
Optical camera cable port	Manufactured by Lemo

- Use FT-1RUA / RUB for trigger and slow operation.
- Use FT-1RUA / RUB or FT-RCPA for detailed video settings.

Base Station basic specifications

Temperature	0°C to 40°C
Humidity	30% to 85% (no condensation)
Power	AC IN: 100 V to 240 V AC * Camera power supply is available using a camera optical cable (max: 1 km).
Consumption	Isolated operation: 222 W (at 100-120V) 218 W (at 220-240V) If camera head is connected: 547 W (at 100-120V) 551 W (at 220-240V)
Dimensions	430 (W) x 88 (H) x 500 (D) mm (excluding projecting parts) 480 (W) (Including rack mount brackets)
Weight	15.4 kg
Consumables (at 24-hour operation)	Cooling fan (P-1546-2): Replace every 4 years (at normal temperature) Button battery (for memory backup) CR2032: Replace every 5 years (at normal temperature) Fuse: Slow blow 5.2x20 mm, 5.0 A / 250 V

Base Station Technical specifications

Video output (camera mode)	
12G/3G-SDI OUT:	
12G mode: Quad 3G mode:	x 2 (3840 x 2160p) / 59.94, 50 (4:2:2) Single Link 12G-SDI x 2 (3840 x 2160p) / 59.94, 50 (4:2:2) Quad Link 3G-SDI (Level-A/B, 2SI) 75Ω BNC x 8 Live or slow video
HD-SDI:	x 2 (1920 x 1080i / 1920 x 1080p): 1080i / 59.94, 50 75Ω BNC x 2 Live or slow video
Video input	
HD-SDI:	(1920 x 1080i / 1920 x 1080p) / 59.94, 50 75Ω BNC x 2

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 (w/ loopthrough, 75-ohm auto termination)
Genlock mode	Internal sync or External sync (B.B. or Tri-level sync)
Memory partition	1 to 16 segments
Recording duration	

RECORDING FRAM RATE (major)		
Frame rate (major)	Recording time	Image size
24 fps	680.9 sec.	3840×2160 pixel
60 fps	272.3 sec.	
120 fps	136.1 sec.	
180 fps	90.7 sec.	
240 fps	68.0 sec.	
300 fps	54.4 sec.	
360 fps	45.3 sec.	
420 fps	38.9 sec.	
480 fps	34.0 sec.	
540 fps	30.2 sec.	
600 fps	27.2 sec.	
720 fps	22.6 sec.	
840 fps	19.4 sec.	
960 fps	17.0 sec.	
1,000 fps	16.3 sec.	
* Audio are not recorded.		

Intercom system	
COMMUNICATION	25-pin D-sub (female) x 1 Intercom x 2 lines (ENG/PROD) if 4WIRE or 2WIRE selected. PGM 2 lines GPI 2 inputs (Default: R TALLY IN, G TALLY IN)
HEAD SET	4-pin XLR (male) x 1 (For intercom connection)
INTERCOM IN1, IN2	3-pin XLR (male) x 2 (when Clear-Com is selected)
Interface	
LAN	100BASE-TX/1000BASE-T RJ-45 x 1 (For FT-1RUA/RUB and FT-1RCPA connection)
Optical camera connector	Manufactured by Lemo
Flicker correction (option)	Applicable to live and recorded footage in built-in memory, in real time. (Not applicable to VF-OUT and HD-SDI 1/2) FT-1RUA/RUB required for flicker correction control.

Options

FT-ONE-SS4K-FC	Flicker correction
Tripod base plate	Equivalent to Sony VCT-U14
FT-1RUA FT-1RUB	Remote Control Unit (Including dedicated 16 VDC adapter)

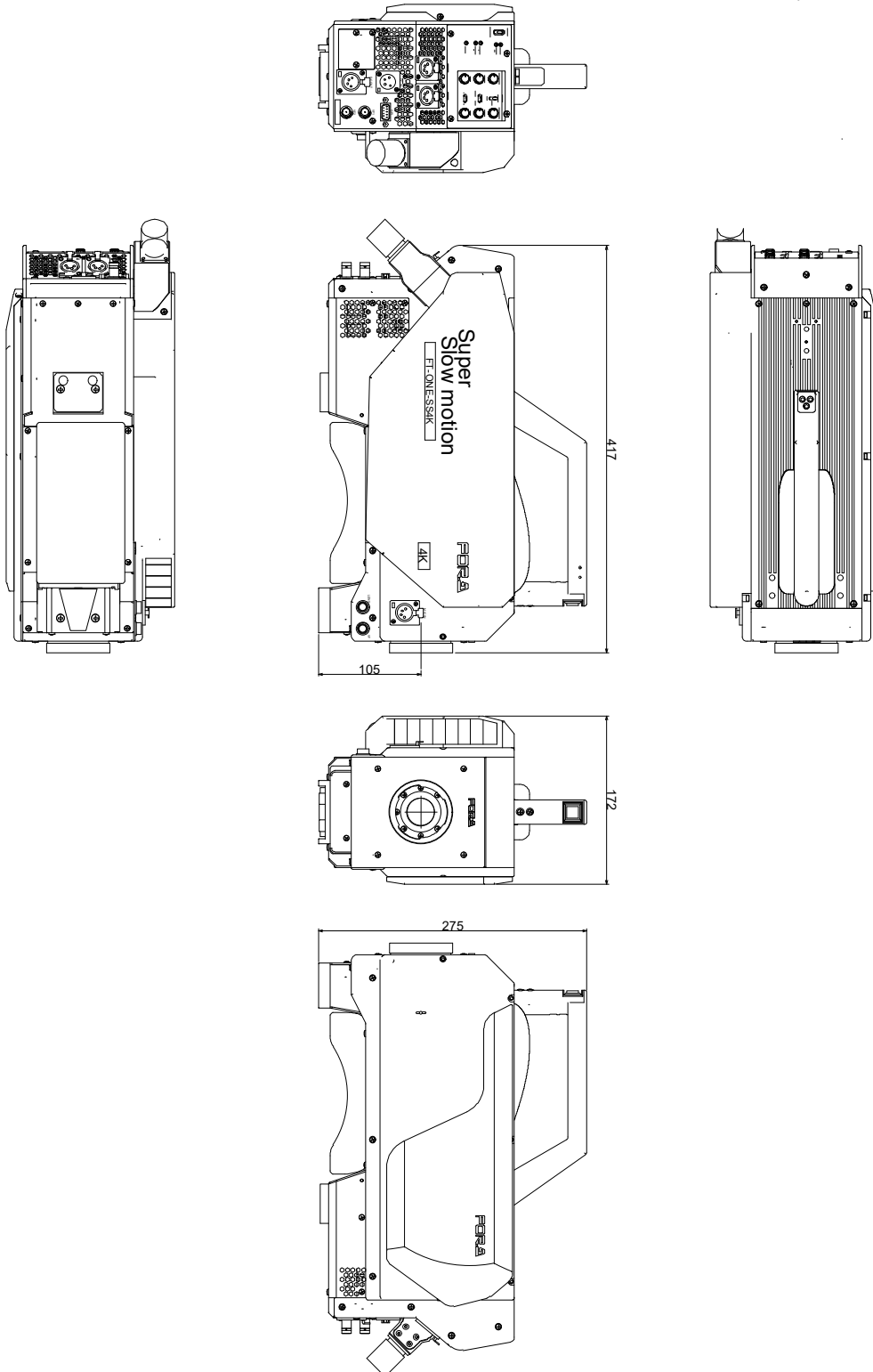
FT-1RCPA	Remote Control Panel (Including dedicated 16 VDC adapter)
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Accessories

AC Cord, EIA Rack Mount Brackets, Rubber feet, Operation Manual

**2. External Dimensions
Camera Head**

(All dimensions in mm.)



Base Station

(All dimensions in mm.)

