

# FULL 4K SUPER SLOW MOTION CAMERA FT-ONE-SS4K



World's first 4K ultra-high-speed camera, designed to be fully compatible with 2/3-inch Bayonet-mount lens for live broadcast applications. Shoots 4 times brighter than PL mount model. (using B4 lens)

## Features

- Shoots up to 1000 frames per second (fps) in 4K
- Simultaneous record and playback with internal memory
- Independent live 4K (HD) output
- Flicker correction (optional)
- 12G-SDI/Quad link 3G-SDI outputs
- Supports HDR/SDR and WCG
- 4-wire, 2-wire, Clear-Com® supported
- 24-axis color correction
- Light weight design, can be shot using viewfinder
- Can be used Canon's OLED viewfinder (optional)

## Compact 2RU base station



Separates the camera head from the body, offering exceptional mobility with 2-km range of the optical connection

## Options

### FT-1RCPA Remote Control Panel



- Real-time remote image adjustment for FT-ONE material.
- Efficient, intuitive adjustment via dedicated buttons for iris, pedestal, gain, and other settings.

### FT-1RUA/RUB Remote Control Unit



- Include direct recording and playback buttons, as well as a dial and touch-panel for a range of settings.
- Intuitive controllers with a fader control

Specifications

Camera head		External interfaces	
Image sensor, shutter, other		Iris control	x 1 Manual/Auto
Effective resolution	3840 x 2160	VF	Dedicated connection to CANON EVF-V70
Sensor size	2/3 inch	Optional camera cable port	Manufactured by Lemo
Shutter mechanism	Global shutter	- Use FT-1RUA/RUB for trigger and slow operation. - Use FT-1RUA/RUB or FT-1RCPA for detailed video settings.	
Quantization	12-bit x RGB	General specifications	
Shutter speed	1/frame rate to 1/10,000 sec. (Preset stops)	Temperature	0°C to 40°C
Frame rate	Max. 1,000 fps	Humidity	30% to 85% (no condensation)
Lens mount	2/3 inch Bayonet-mount	Power	Supplied from the base station, via optical camera cable or an external power supply: 100 V to 240 V (Max.1km) DC IN: DC +10 V to +17 V DC OUT: DC +10 V to +17 V (Max. 20 W)
Trigger signal input	From Remote Control Unit (FT-1RUA/RUB), GPI (Support planned)	Consumption	160 W (in isolated operation) 210 W (w/viewfinder and lens)
Audio inputs		Dimensions	172 (W) x 275 (H) x 417 (D) mm (excluding projecting parts)
MIC IN	x 1 (1 stereo pair), balance, high impedance Input level: -60 dBu / -50 dBu / -40 dBu Phantom power supply: +48 V/OFF	Weight	7.1 kg
Audio output		Consumables	Cooling fan: Replace every 4 years (at normal temperature)
Embedded	2 channels (1 stereo pair), 48 kHz, synchronous		
Video output			
VF1, VF2	(1920 x 1080i) / 59.94, 50 75Ω BNC x 2 Down-converted camera image or RET1/RET2 input image		
Intercom system			
INCOM1	x 2		
INCOM2 (Support planned)	PRIV/LINE (producer line or engineer line)		

Base station		General specifications	
Video output (camera mode)		Temperature	0°C to 40°C
12G/3G-SDI OUT:		Humidity	30% to 85% (no condensation)
12G mode:	x 2 (3840 x 2160p) / 59.94, 50 (4:2:2) Single Link 12G-SDI	Power	AC IN: 100 V to 240 V AC * Camera power supply is available using a camera optical cable (max: 1km)
Quad 3G mode:	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)	Power Consumption	Isolated operation: 222 W (at 100-120 V) 218 W (at 220-240 V) If camera head is connected: 547 W (at 100-120 V) 551 W (at 220/240 V)
HD-SDI:	x 2 (1920 x 1080i); 1080i / 59.94, 50 75Ω BNC x 2 Live or video	Dimensions	430 (W) x 88 (H) x 500 (D) mm (excluding projecting parts)
Video input		Weight	15.4 kg
HD-SDI:	(1920 x 1080i) / 59.94, 50 75Ω BNC x 2	Consumables	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 5.2 x 20 mm, 5.0 A / 250 V
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)	Others	
Genlock mode	Internal sync or External sync (B.B. or Tri-level sync)	Options	FT-ONE-SS-FC: Flicker Corrector Tripod base plate: Compatible with Sony VCT-U14 Tripod Adapter FT-1RUA/RUB: Remote Control Unit (Including dedicated 16 VDC adapter) FT-1RCPA: Remote Control Panel (Including dedicated 16 VDC adapter)
Memory partition	1 to 16 segments		
Recording duration	See tables below.		
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.			

Recording Frame Rate (major)

4K (4096 x 2160)										
Frame rate	24 fps	60 fps	120 fps	180 fps	240 fps	360 fps	480 fps	600 fps	840 fps	1000 fps
Recording time	680.9 sec.	272.3 sec.	136.1 sec.	90.7 sec.	68.0 sec.	45.3 sec.	34.0 sec.	27.2 sec.	19.4 sec.	16.3 sec.

fps: frames per second

The above specification is as of September 2020. Design and specifications subject to change without notice.



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