

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 B4 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, up to 2000 fps in HD
- 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 (Preliminary)

Camera head	
Image sensor, shutter, other	
Effective resolution	4096 x 2160
Sensor size	2/3 inch
Shutter mechanism	Global shutter
Quantization	12-bit
Shutter speed	1/frame rate to 1/50,000 sec.
Frame rate	4K: Max. 1,000 fps HD: Max. 2,000 fps
Lens mount	2/3 inch B4 mount
Trigger method	START, CENTER, END, Arbitrary positions Pre-roll function: Adjustable playback position
Trigger signal input	Remote control, GPI
Video settings	
Gain	Digital: 0 dB to 18 dB (0.1 dB step) Analog: 0 dB, 6 dB
White balance	PRESET: 3200K, 5600K, 6500K, 9300K Semiautomatic correction
Pedestal	Black level set via R, G, B, Master
Color correction	Phase, R-G, R-B, G-R, G-B, B-R, and B-G 24-axis color correction for Hue and Chroma
Gamma	γ 1, γ 0.45, γ 0.50, HDTV, HDR (HLG2100)
Knee	Knee point and Knee slope setting
Enhancement	On/Off, horizontal (H), vertical (V)
Video outputs	
VF	Output formats: 1080/59.94p, 1080/59.94i, 1080/50p, 1080/50i, 75 Ω , BNC x 2 Down-converted 4K video, or video supplied to RET1 or RET2 on the base station (without embedded audio)

Audio inputs	
MIC IN	XLR 5 pin female x 1 (1 stereo pair), balance, high impedance Input level: -60 dBu/-50 dBu/-40 dBu Phantom power supply: +48 V/OFF
Audio outputs	
Embedded	2 channels (1 stereo pair), 48 kHz, synchronous
External interfaces	
Intercom headset	XLR 4 pin female x 2 PRIV/LINE (producer line or engineer line)
GPI	D-sub 9 pin x 1 GPI IN 1 to 6, R TALLY OUT, G TALLY OUT
Iris control	12 pin female, HIROSE HR10A-10R-12S (71) connector x 1 Manual/Auto
Optical camera cable port	Manufactured by LEMO or TAJIMI (factory setup)
General specifications	
Temperature	0°C to 40°C
Power	Supplied from the base station, via optical camera cable or an external power supply DC IN: XLR 4 pin male +12 V to +17 V DC OUT: XLR 4 pin female +12 V or DC IN voltage, Max. 50 W
Consumption	Max. 200 W
Dimensions	172 (W) x 216 (H) x 417 (D) mm (excluding protrusions)
Weight	7 kg

Base station	
Video outputs	
4K video (PLAY/LIVE)	CH A 1 to 4/B 1 to 4: 12G-SDI, 3840 x 2160, 75 Ω , BNC x 4, 2160/59.94P, 2160/50P 3G-SDI mode, SQD or 2SI : Live video output (channel A) Live video or playback output (channel B) 12G-SDI mode : Live video output x 4 (channel A) Live video or playback output x 4 (channel B)
HD video	HD-SDI 1/2: 1080/59.94p, 1080/59.94i, 1080/50p, 1080/50i, 75 Ω , BNC x 1 Downconverted 4K video or playback
Video inputs	
Return	RET 1/2: Input formats: 1080/59.94p, 1080/59.94i, 1080/50p, 1080/50i, 75 Ω , BNC x 2
Genlock	BB: NTSC: 0.429 Vp-p/PAL: 0.45 Vp-p or tri-sync: 0.6 Vp-p, 75 Ω , BNC x 1, loop-through
Genlock mode	Internal or external sync (BB or Tri-sync)
External Interfaces	
Ethernet	100BASE-TX/1000BASE-T. RJ-45 x 1 (for remote control unit and remote control panel connection)
Intercom inputs/outputs	COMMUNICATION: 25-pin D-sub (female) x 1, one line each for the engineer and producer; 2- and 4-wire supported Two program lines R and G tally input HEAD SET: 4-pin XLR (female) x 2 (for intercom connection) INTERCOM IN1/IN2: 3-pin XLR (male) x 2 (for Clear-Com® intercom connection)
Optical camera cable port	Manufactured by LEMO or TAJIMI (factory setup)
Recording section	
Frame rate/Recording time	See tables below.
Partitioning	1 to 16 segments
General specifications	
Temperature	0°C to 40°C
Humidity	30% to 85% (no condensation)
Power	100 VAC to 240 VAC
Consumption	350 W (can be supplied power to camera head)
Dimensions	430 (W) x 88 (H) x 500 (D) mm (excluding protrusions)
Weight	16.5 kg
Others	
Accessories	Operation manual, AC cable
Options	FT-ONE-LS-FC: Flicker Corrector FT-1RUA/RUB: Remote Control Unit FT-1RCPA: Remote Control Panel

Frame rate/Recording time

4K (4096 x 2160)										
Frame rate	50 fps	60 fps	120 fps	180 fps	240 fps	360 fps	360 fps	480 fps	500 fps	1000 fps
Recording time	327 sec.	273 sec.	136 sec.	91 sec.	68 sec.	45 sec.	27.2 sec.	34 sec.	32 sec	16 sec

fps: frames per second

The above specification is as of March 2019. Design and specifications subject to change without notice.



Head Office: 3-8-1 Ebisu, Shibuya-ku, Tokyo 150-0013, Japan

ISO 9001 and 14001 certified (Sakura R&D)
www.for-a.com

FOR-A Corporation of America Corporate Office/ Service Center: Tel: +1 714-894-3311
11155 Knott Ave., Suite G, H & I, Cypress, CA 90630, U.S.A.

FOR-A Corporation of America Northeast Office: Tel: +1 973-220-847
1360 Clifton Ave., Clifton, NJ 07012, U.S.A.

FOR-A Corporation of America Support Center: Tel: +1 352-371-1505
2400 N.E. Waldo Road, Gainesville, FL 32609, U.S.A.

FOR-A Latin America and the Caribbean Miami Office: Tel: +1 657-600-5759

FOR-A Latin America and the Caribbean Sao Paulo Office: Tel: +55 11-99913-3751

FOR-A Europe S.r.l.: Tel: +39 039-916-4811
Via Volturmo, 37, 20861 Brugherio MB, Italy

FOR-A UK Limited: Tel: +44 (0)20-3044-2935
Trident Court, 1 Oakcroft Road, Chessington, KT9 1BD, UK

FOR-A Italia S.r.l.: Tel: +39 039-881-086/103
Via Volturmo, 37, 20861, Brugherio MB, Italy

FOR-A Corporation of Korea: Tel: +82 (0)2-2637-0761
1007, 57-5, Yangsan-ro, Yeongdeungpo-gu, Seoul 150-103, Korea

FOR-A China Limited: Tel: +86 (0)10-8721-6023
1618 Huateng Building, No. 302, 3 District, Jinsong, Chaoyang, Beijing 100021, China

FOR-A Middle East-Africa Office: Tel: +971 (0)4-551-5830
Dubai Media City, Aurora Tower, Office 1407, P.O. Box 502688, Dubai, UAE

AGIV (India) Private Limited: Tel: +91 22-2673-3623
2nd Floor, Valecha Chambers, Link Road, Andheri (W), Mumbai 400053, India

FOR-A South East Asia Office: Tel: +852 2110-1352
Studio 09, Rm. A1, 3/F., Phase 1, Hang Fung Ind. Bldg., 2G Hok Yuen St., Hung Hom, Hong Kong