

4K Variable Frame Rate Camera

FT-ONE-S

Provisional

FOR.A[®]
INNOVATIONS IN VIDEO
and AUDIO TECHNOLOGY

4K VARIABLE FRAME RATE CAMERA

FT-ONE-S



Camera lenses are sold separately.

Unbeatable Mobility to Capture the Moment

A new FT-ONE camera is here, building on the breakthrough of super slow-motion 4K shooting. Separating the camera head from the body offers exceptional mobility, enabling unprecedented shooting positions or angles for live sports or other events. Expand your creative horizons by combining super slow-motion 4K shooting—a highlight of FT-ONE cameras—with the superior mobility of this model.



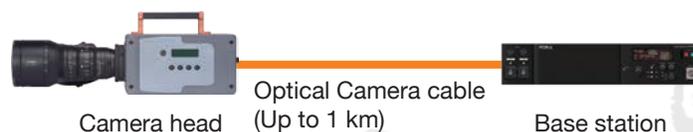
More convenient camera head

At about 180 × 210 × 325 mm and 8.5 kg, the camera head is smaller and lighter than that of the original FT-ONE, yet it remains full-featured. The camera operator is linked optically and via an intercom system. Such a maneuverable camera head can be used where larger cameras cannot, as part of a system that expands creative possibilities.



Superb mobility at many live events

Camera operators have room to roam when covering live events, thanks to the 1 km range of the optical connection between the camera head and base station.



Fast 500 fps shooting at 4K

By adding mobility to the fast 4K shooting introduced by the FT-ONE, the FT-ONE-S can capture exciting moments better than ever.



Super 35 mm sensor

Capture live events with the sense of depth of TV dramas or movies. Content is immersive and beyond the reach of ordinary HD cameras with 2/3-inch image sensors. Even familiar scenes look more exciting.



12-axis color correction

In video output, color correction along 12-axis surpasses ordinary trichromatic correction. Specific colors can be corrected by adjusting hue and saturation on the 12-axis. This is convenient for on-site color-matching between scenes, or when ensuring color consistency with video from other cameras.

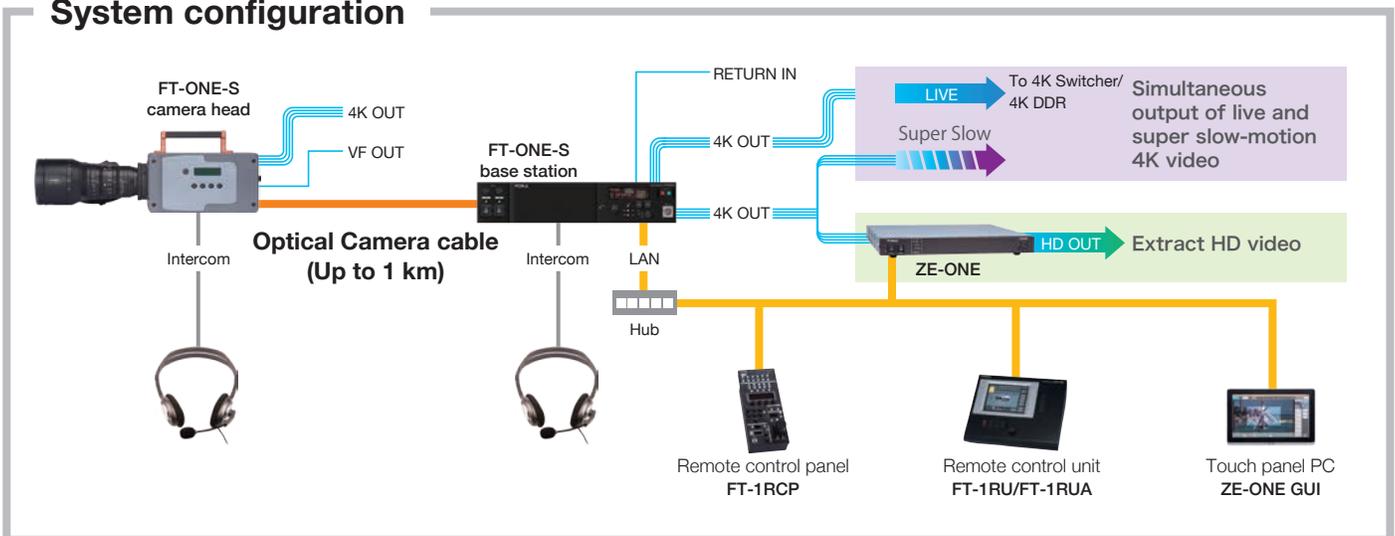


Base Station

Designed for installation in vans or where events are covered, the base station features solid construction. Exceptionally reliable, it also eliminates the need for a control computer. FT-ONE-S base station meets all broadcast needs in a core system. Communication with the camera includes tally signals, shooting feedback, and intercom functionality. Besides powering the camera head, the base station receives video and controls super slow-motion material. For material transfer, the base station accommodates two SSD cartridges which can hold nearly 7 minutes of material in all.



System configuration



Specifications (Provisional)

Camera Head	
Image sensor, shutter, other	
Sensor	CMOS sensor
Effective resolution	4096 × 2304 (4096 × 2160 DCI-compliant)
Sensor size	Super 35 mm-equivalent
Color filter	RGB Bayer
Shutter mechanism	Global shutter
Quantization	12-bit
Shutter speed	1/frame rate to 1/50,000 sec.
Lens mount	PL mount
Trigger method	START, CENTER, END Pre-roll function: Adjustable playback position
Trigger signal input	Remote control, GPI
Video settings	
Gain	Digital gain: 0 dB, 6 dB, 12 dB, 18 dB, 24 dB, 30 dB, 36 dB, 42 dB Analog gain: 0 dB, 3 dB, 6 dB, 9 dB, 12 dB
White balance	PRESET: 3200K, 5600K, 6500K, 9300K AUTO WHITE
Pedestal	Black level set via R, G, B, Master
Linear matrix color correction	RB, RG, GR, GB, BR, and BG
Gamma	γ1, γ0.45, γ0.50, HDTV, CINEMA
Knee	Knee point and Knee slope setting
Enhancement	On/Off, horizontal (H), vertical (V)
Audio Input	
MIC IN*	5-pin XLR (female) × 1 (stereo), balanced, high impedance Input level: -60 dBu/-50 dBu/-40 dBu Phantom power supply: +48 V/OFF
* Audio signals are embedded in the SDI outputs. They cannot be recorded in the memory of the base station.	
Video Output	
4K video output	3G-SDI (Level-A), 3840 × 2160, 75Ω, BNC × 4 Output formats: 1080/59.94p, 1080/50p
VF output	HD-SDI Output formats: 1080/59.94i, 1080/50i
Audio Output	
Embedded	2 channels (1 stereo pair), 48 kHz, synchronous
External Interfaces	
Iris control	12-pin D-sub (female), manual/auto
Intercom headset	4-pin XLR (female) × 1
General Specifications	
Temperature	0°C to 40°C
Humidity	30% to 85% (no condensation)
Power	100 V to 240 V AC (Supplied from the base station. Maximum distance: 1 km)
Consumption	Approx. 100 W
Dimensions	180 (W) × 210 (H) × 325 (D) mm (excluding protrusions)
Weight	8.5 kg

Base Station	
Recording Section	
Frame rate/recording time	See tables below.
Partitioning	1 to 16 spaces
SSD Cartridge (FT-ONE2T)	
Capacity	Approx. 2 TB (accepts two 2 TB cartridges, 4 TB in total)
Recording time	Equivalent to 211 sec. of RAW material per cartridge at 360 fps
Transfer from internal memory	1,000 frames in approx. 45 sec.
Cartridge switching	Hot-swappable (unused cartridge only)
Video Output	
4K video output (PLAY/LIVE)	3G-SDI (Level-A), 3840 × 2160, 75Ω, BNC × 8 (Two 4K channels) Output format: 1080/59.94p, 1080/50p
VF/auxiliary output	HD-SDI × 2 (VF output × 1, AUX output × 1) (Downconverted signals of 4K material, with menus and markers layered on VF output) Output formats: 1080/59.94i, 1080/50i
RET input	HD-SDI Input format: 1080/59.94i, 1080/50i
Genlock input	BB: NTSC: 0.429 Vp-p/PAL: 0.45 Vp-p or Tri-sync: ±0.3 Vp-p × 1
Genlock mode	Internal or external sync (BB or Tri-sync)
External Interfaces	
Ethernet	100Base-TX/1000Base-T × 1 (for remote control unit and remote control panel connection)
Intercom	CLEAR-CAM, 2W, 4W
General Specifications	
Temperature	0°C to 40°C
Humidity	30% to 85% (no condensation)
Power	100 V to 240 V AC
Dimensions	430 (W) × 88 (H) × 500 (D) mm (excluding protrusions)
Others	
Accessories	Operation manual, AC cable
Options	FT-1RUA: Remote Control Unit FT-1RCP: Remote Control Panel FT-ONE2T: SSD cartridge (approx. 2 TB) FT-ONE-1TL: Lowcost SSD cartridge (approx. 1 TB)

Frame Rate/Recording Time

Recording Frame Rate	24 fps	60 fps	120 fps	180 fps	240 fps	300 fps	360 fps
Recording Time	352.5 sec.	141.7 sec.	70.8 sec.	47.2 sec.	35.4 sec.	28.3 sec.	23.6 sec.

Resolution: 4096 × 2304

fps: frames per second

The above specification is as of April, 2016



INNOVATIONS IN VIDEO and AUDIO TECHNOLOGY Head Office: 3-8-1 Ebisu, Shibuya-ku, Tokyo 150-0013, Japan

ISO 9001 and 14001 certified (Sakura R&D)

<http://www.for-a.com/>

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

FOR-A Corporation of America East Coast Office: Tel: +1-201-944-1120
2 Executive Drive, Suite 670, Fort Lee Executive Park, Fort Lee, NJ 07024, U.S.A.

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

FOR-A Corporation of America Miami Office: Tel: +1-305-931-1700
5200 Blue Lagoon Drive, Suite 760, Miami, FL 33126, U.S.A.

FOR-A Corporation of Canada: Tel: +1-416-977-0343
1131A, Leslie Street #209, Toronto, Ontario, M3C 3L8, CANADA

FOR-A Europe S.r.l.: Tel: +39-039-879-778
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
1307 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 (FOR-A India): Tel: +91-22-2673-3623
2nd Floor, Valecha Chambers, Link Road, Andheri (W), Mumbai 400053, India