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:** Digital, 2.3-inch, Global shutter
- **Effective resolution:** 4096 x 2160
- **Sensor size:** 2/3-inch
- **Shutter mechanism:** Global shutter
- **Quantization:** 12-bit
- **Shutter speed:** 1/frame rate to 1/200,000 sec.
- **Frame rate:**
  - HD: Max. 1,000 fps
  - 4K: Max. 1,000 fps
- **Lens mount:** 2/3-inch B4 mount
- **Trigger mechanism:** Start, Center, End, Arbitrary positions
- **Trigger signal:** Remote control, GPI
- **Video settings:**
  - Frame rate: 422, 2160/50P, 2160/50i
  - Frame rate: 422, 2160/50P, 2160/50i
  - Frame rate: 422, 2160/50P, 2160/50i
- **Gain:** Digital: 0 dB to 18 dB (0.1 dB step)
- **White balance:** PRESET: 3200K, 5600K, 6500K, 9300K
- **Pedestal:** Black level set via R, G, B, Master
- **Color correction:** Phase, R-G, R-B, G-R, B-R, and B-G
- **Gamma:** 
- **Knee:** Knee point and Knee slope setting
- **Enhancement:** On/Off, horizontal (H), vertical (V)
- **VIEW:** Output formats: 1080/59.94p, 1080/59.94i, 1080/50p, 1080/50i, or loop-through BNC x 2
- **Down-converted 4K video, or video supplied to RET1 or RET2 on the base station (without embedded audio)**

### Base station

- **4K video (PLAY/LIVE):**
  - 12G-SDI: 3840 x 2160, 75Ω, BNC x 4
  - 50 fps
  - D-sub 9 pin x 1
  - 4K: Max. 1,000 fps
- **BB:** NTSC: 0.429 Vp-p/PAL: 0.45 Vp-p or tri-sync: 0.6 Vp-p
- **12 pin female, HIROSE HR10A-10R-12S (71) connector x 1
- **360 fps**
- **Global shutter**
- **Phase, R-G, R-B, G-R, G-B, B-R, and B-G**

- **HD-SDI 1/2:**
  - 1080/59.94p, 1080/59.94i, 1080/50p, 1080/50i, 75Ω
  - Manufactured by LEMO or TAJIMI (factory setup)
- **HD video**
  - HD-SDI 1/1: 1080/59.94p, 1080/59.94i, 1080/50p, 1080/50i, or loop-through BNC x 2
  - Downconverted 4K video or playback
- **External Interfaces:**
  - **Ethernet:** 10BASE-T/100BASE-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 IN/OUT: 3-pin XLR (male) x 2 for Clear-Comm* intercom connection**
  - **Optical camera cable port:** Manufactured by LEMO or TAJIF (factory setup)

### Recording section

- **Frame rate/Recording time:** See tables below.
- **Partitioning:** 1 to 16 segments
- **General specifications:**
  - Temperature: 10°C to 40°C
  - Humidity: 30% to 80% (no condensation)
  - Power: DC IN: +12 V or +17 V DC OUT: XLR 4-pin female +12 V or 4-pin female +12 V or DC IN voltage, Max. 50 W
  - Consumption: Max. 200 W
  - Dimensions: 72 (W) x 216 (H) x 417 (D) mm (excluding protrusions)
  - Weight: 10 kg

### General specifications

- **Optical camera cable port:**
  - **Input level:** -60 dBu/-50 dBu/-40 dBu
  - **Gain**
  - **Knee**
  - **Gamma**
  - **Color correction**
  - **Pedestal**
  - **White balance**
  - **Gain**
  - **Video settings**
    - Frame rate: 2160/59.94P, 2160/50P
    - Frame rate: 2160/59.94P, 2160/50P
    - Frame rate: 2160/59.94P, 2160/50P
  - **Trigger signal input**
  - **Trigger method**
  - **Frame rate**
  - **Shutter speed**
  - **Shutter mechanism**
  - **Sensor size**
  - **Effective resolution**
  - **Power consumption**
  - **Temperature**
  - **Humidity**
  - **Temperature**
  - **Humidity**
  - **Power**
  - **Weight**

### Frame rate/recording time

<table>
<thead>
<tr>
<th>Frame rate</th>
<th>Recording time (sec)</th>
<th>50 fps</th>
<th>60 fps</th>
<th>120 fps</th>
<th>180 fps</th>
<th>240 fps</th>
<th>360 fps</th>
<th>360 fps</th>
<th>480 fps</th>
<th>500 fps</th>
<th>1000 fps</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>4K (4096 x 2160)</strong></td>
<td>50 fps</td>
<td>50 fps</td>
<td>50 fps</td>
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<tr>
<td></td>
<td><strong>Recording time</strong></td>
<td>327 sec.</td>
<td>273 sec.</td>
<td>136 sec.</td>
<td>91 sec.</td>
<td>68 sec.</td>
<td>45 sec.</td>
<td>27.2 sec.</td>
<td>34 sec.</td>
<td>32 sec.</td>
<td>16 sec.</td>
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<tr>
<td></td>
<td><strong>tss:</strong> frames per second</td>
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The above specification is as of March 2019. Design and specifications subject to change without notice.