

SONY

Press Release

Sony Expands Super 35mm FS Series with New 4K Camcorder FS7 II

New model delivers advanced features for documentary and indie production with Electronic Variable ND filter, level lock type E-mount and refined mechanical design



Hong Kong, January 19, 2017 - Sony is expanding its Super 35mm FS series with the latest 4K camcorder FS7 II. Building on the original FS7's strengths, the new model adds advanced features including Electronic Variable ND technology, a lever lock type E-mount, and a new mechanical design for faster and easier set-up. The FS7 II camcorder supports Sony's α Mount system, which includes more than 70 lenses to suit every budget and requirement. Designed for long-form shooting and production applications, the new 4K camcorder is extremely suitable for documentaries and independent filmmaking.

Electronic Variable ND Technology

The FS7 II camcorder's Electronic Variable ND filter system, combined with its large sensor, delivers greater exposure control with the option of preset or variable operation modes. Variable ND mode (clear + 2~7 stop range, in seamless transition steps up to 1/128) allows users to adjust the density of the ND filter during shooting and achieve seamless transition between steps.

The camcorder's expanded ND operations enable fine exposure adjustment by relegating iris to set depth of field, preventing soft focus caused by diffraction and color shift caused by stacking multiple external ND filters. The FS7 II can compensate for exposure fluctuation caused by iris control while adjusting the depth of field. Users can adjust exposure while keeping the same bokeh in changing shooting or lighting environments.

Preset mode allows users to assign three ND settings to the filter turret, which is extremely useful, for example, in selecting the most appropriate filtration range for changing light conditions. Auto ND mode is also available, allowing exposure to stay at a fixed level while adjusting the depth of field with iris control.

E-mount (lever lock type) for Professional Shooting

With the new E-mount (lever lock type), Sony’s FS7 II allows the change of lenses by rotating the locking collar rather than the lens itself. Therefore, users can save considerable amount of time during production as they do not need to remove the lens support rigs.



Mechanical Design Enhancements

Like its counterparts in the FS series family – the FS7 and FS5 models – the new FS7 II features several design and ergonomic updates for comfortable and functional use in the field. The FS7 II’s “tool-less” mechanical design allows users to make on-the-fly changes to the camcorder’s set-up and operation. For example, no tools are required to adjust the Smart Grip or viewfinder positions.

The viewfinder eyepiece provides a third stabilizing contact point during handheld shooting. Durable square section rods and lever-clamps on the LCD and camera body provide simple and precise front-to-back VF adjustment while retaining level positioning.



New Sony G lens 18-110mm

Sony is also introducing a new E-mount, Super 35mm lens specifically designed for documentary and motion picture production. The new lens, model E PZ 18-110mm F4 G OSS (SELP18110G¹), covers Super 35mm and APSC sensors. Compact and lightweight – 2.4 lbs (1.1Kg) – with an 18 to 110 focal range (6x zoom), the new lens uses a new fully mechanical/servo zoom switchable system, capable of snap zooms and entirely devoid of lag. The focal range is also optimized for Super 35 and APS-C sensors.

The lens is compatible with Sony's α Mount system cameras, including the α 7 series interchangeable-lens cameras and professional Super 35mm 4K camcorders such as Sony's FS7 or FS5. Although perfectly suited for still image taking, filmmakers will fully appreciate the lens' extended creative capabilities for shooting motion images.

The lens benefits from Sony's Smooth Motion Optics (SMO) design, developed to optimize performance during motion image capture. The lens design eliminates undesirable characteristics and artifacts that do not affect still image taking, but can severely limit a lens' usefulness for motion shooting, such as:

- Ramping: F stop gradually diminishes when zooming tight.
- Not holding focus while zooming.
- Breathing (angle of view variation while focusing).
- Optical axis shift (image moves in the frame while zooming).

XQD Cards

The FS7 II supports the XQD memory card format, designed for capturing and transferring high bandwidth, high resolution files. Sony's latest XQD card, [QD-G256E](#) – with an industry-first 256 GB capacity – enables recording time of approximately 45 minutes at 4K 60P and 3.5 hours at 2K 30P. Combined with a read speed of 440MB/s and write speed 400MB/s, users can shoot for longer without the need to change media cards.



Since its introduction in 2014, Sony's FS7 has become one of the most widely used cameras in a range of production applications. While it remains in the professional camcorder line-up, the new FS7 II will equip creative professional with a broader range of creative tools and features that Sony derived from actively listening to end users' feedback.

¹ Due to a change in the specifications, the SELP18110G is no longer compatible with the SEL14TC and SEL20TC teleconverters.

The new Super 35mm camcorder PXW-FS7 II from Sony will be launched from end of January 2017 onwards at HK\$93,000. The PXW-FS7 II lens kit with SELP18110G lens will also be available while its selling price will be announced at a later time.

From end of January 2017 till end of July 2017, there is a bundled package of the PXW-FS7 II with Metabones® new EF to E Speed Booster lens adapter (MB_SPEF-E-BT3) to be offered by selected authorized professional equipment dealers. Details will be announced at a later time.

For more information about Sony's professional camcorders, please click [here](#).

For customer enquiries, please contact Sony hotline service at (852) 2345-2966.

About Hong Kong Marketing Company

Hong Kong Marketing Company (HKMC), a division of Sony Corporation of Hong Kong Limited, provides sales, marketing and after sales services for Sony's consumer electronics products as well as broadcast and professional products in Hong Kong and Macau. For more information on Sony's products and services, please visit our website at <http://www.sony.com.hk>.

###

Specifications of Sony 4K Compact Super35mm PXW-FS7M2 Professional Camcorder:

| Model | PXW-FS7M2 |
|--|---|
| General | |
| Mass | Approx. 2.0 kg (body only) Approx. 4.5 kg (with Viewfinder, Eyepiece, Grip Remote Control, BP-U30 battery, SELP18110G LENS, an XQD memory card) |
| Dimensions (W x H x D) | 158.9 x 245.2 x 247mm (body without protrusions) |
| Power Requirements | DC 16.5V (battery pack) / DC 12.0V (AC adaptor) |
| Power Consumption | Approx. 19W (while recording XAVC-I QFHD 59.94P, SELP18110G Lens, Viewfinder ON, not using external device) |
| Operating Temperature | 0°C to 40°C (32°F to 104°F) |
| Storage Temperature | -20°C to +60°C (-4°F to +140°F) |
| Battery Operating Time | Approx. 1 hrs. with BP-U30 battery (while recording XAVC-I QFHD 59.94P, SELP18110G Lens, Viewfinder ON, not using external device) Approx. 2 hrs. with BP-U60 battery while recording XAVC-I QFHD 59.94P, SELP18110G Lens, Viewfinder ON, not using external device) Approx. 3 hrs. with BP-U90 battery (while recording XAVC-I QFHD 59.94P, SELP18110G Lens, Viewfinder ON, not using external device) |
| Len | |
| Lens Mount | E-mount (lever lock type) |
| Camera Section | |
| Imaging Device (Type) | Super35 type Single-chip Exmor CMOS |
| Effective Picture Elements | 17:9 4096 (H) x 2160 (V) / 16:9 3840 (H) x 2160 (V) |
| Built-in Optical Filters | OFF: Clear, 1: 1/4ND, 2: 1/16ND, 3: 1/64ND Linear variable ND (Approx. 1/4ND to 1/128ND) |
| Sensitivity (2000 lx, 89.9% reflectance) | Video Gamma: T14 (3840 x 2160/23.98p mode 3200K) |
| ISO Sensitivity | ISO 2000(S-Log3 Gamma D55 Light source) |
| Minimum Illumination | 0.7 lx (+18dB, 23.98P, Shutter OFF, ND Clear, F1.4) |
| S/N Ratio | 57 dB (Y) (typical) |
| Shutter Speed | 1/3 sec to 1/9,000 sec |
| Slow & Quick Motion Function | XAVC-I mode 3840x2160: 1 to 60 frames (59.94P, 50P, 29.97P, 23.98P, 25P) XAVC-I mode 1920x1080: 1 to 180 frames (59.94P, 29.97P, 23.98P) 1 to 150 frames |

| | |
|----------------------------|---|
| | (50P,25P) XAVC-L mode 3840x2160 : 1 to 60 frames (59.94P, 50P, 29.97P, 23.98P, 25P) XAVC-L mode 1920x1080: 1 to 120 frames (59.94P, 50P, 29.97P, 23.98P, 25P) |
| White Balance | Preset, Memory A, Memory B(1500K-50000K)/ATW |
| Gain | -3, 0, 3, 6, 9, 12, 18 dB, AGC |
| Gamma Curve | STD,HG,User,S-Log2, S-Log3 |
| Input/Output | |
| Audio Input | XLR-type 3-pin (female) (x2), line/mic/mic +48 V selectable |
| SDI Output | BNC(x2), switchable with 3G-SDI/HD-SDI SMTPE292M/424M/425M |
| HDMI Output | Type A (x1) |
| USB | USB device, mini-B (x1) |
| Headphone Output | Stereo mini jack (x1) -16dBu 16Ω |
| Speaker Output | Monaural |
| DC Input | DC jack |
| Remote | Stereo mini-minijack (ø2.5 mm) |
| Monitoring | |
| Built-in LCD Monitor | 8.8 cm (3.5 type), Approx. 1.56M dots |
| Built-in Microphone | |
| | Omni-directional stereo electret condenser microphone |
| Media | |
| Type | XQD Card slot(x2) SD Card slot(x1) for saving configuration data |