

PMW-300K1

14 times zoom lens kit model

*Available from October, 2013

PMW-300K2

16 times zoom lens kit model

*Available within 2013



※ PMW-300K1 with optional microphone

Three 1/2-inch-type Full-HD Exmor™ CMOS sensors camcorder with interchangeable lens system

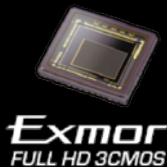
The PMW-300 is equipped with three 1/2-inch-type Full-HD Exmor™ CMOS sensors, capable of delivering high-quality images even in low-light environments. Ample support for interchangeable lens and a robust metal body further ensure that PMW-300 is suitable for a wide range of applications, including news gathering and documentary production. Additionally, the PMW-300 offers a convenient remote-control and multi-camera operation capability, which allows use with high-end camera systems.

Three 1/2-inch Type Exmor™ CMOS Full HD Sensors and advanced signal processing Technology

The three 1/2-inch Exmor™ Full-HD CMOS sensors offer high light sensitivity and low image noise.

As a consequence, it delivers clear high-resolution images even when filming in low-light conditions.

The camcorder also includes Sony's advanced signal processing technology, which suppresses noise effectively and thus creates noticeably clearer images.



Interchangeable Lens System

The PMW-300 features the same EX-mount interchangeable lens system as the PMW-EX3, making it compatible with a wide range of 1/2-inch and 2/3-inch lenses (with optional ACM-21 adaptor).

The camcorder also comes with two auto-focusing zoom lens packages, one for a 14x Fujinon zoom lens (PMW-300K1) and the other a 16x Fujinon zoom lens (PMW-300K2).

Both lenses include a focus ring for quick switching between auto and manual focus.



Multi-camera Operation with 8-pin remote control

The camcorder has a Genlock In and Timecode In/Out interface, so that it can link together with other cameras for multi-camera operation capability and 3D configurations.

The 8-pin 700-Protocol remote control interface allows for remote adjustment.

Thanks to the remote control interface together with the Genlock interface, the PMW-300 can be used in a simple studio application.

Full HD MPEG-2 HD 422 50 Mbps Recording

The PMW-300 uses an MPEG HD 422 codec, recording Full HD (1920 x 1080) at 50 Mbps in industry-standard MXF files, along with 24-bit 48 kHz, 4-channel audio.

It is also capable of recording MPEG-2 HD 420 in Full HD (1920 x 1080) at 35 Mbps.

Standard Definition options include MPEG IMX and DVCAM. The camcorder can also be upgraded in the future to support Sony's revolutionary XAVC codec, extending the lifecycle of the product to ensure maximum return on investment*.

* XAVC support for HD will be available in 2014.



Precision focusing with 3.5-inch color LCD viewfinder

An enhanced HD-resolution 3.5-inch color LCD viewfinder (960x540 pixels) enables precision focusing for HD camcorder work.

Semi-shoulder robust design with metal body

The PMW-300 features an innovative semi-shoulder design with an extendable chest pad mechanism and rotary hand grip, allowing comfortable recording over long periods of time. Its magnesium metal body ensures the camcorder is robust and, like its predecessor, the PMW-EX3, can withstand even the harshest production environments.

Other features

- HD/SD-SDI and HDMI interfaces
- i.LINK Input/Output for DV/HDV recordings
- Slow & Quick motion from 1 fps to 60 fps
- Wi-Fi remote control with optional Wi-Fi adaptor
- 4 Built-in ND(Neutral Density) filters

SPECIFICATIONS

| General | |
|---------------------------|--|
| Dimensions (W x H x D) *1 | 275 x 205 x 384 mm (PMW-300K1) (without protrusions) |
| Power Requirements | DC 12 V |
| Operating Temperature | 0°C to 40°C (32°F to 104°F) |
| Storage Temperature | -20°C to +60°C (-4°F to +140°F) |
| Recording Format (Video) | <UDF> |
| | MPEG HD422 (50Mbps) |
| | MPEG HD HQ (35Mbps) |
| | MPEG IMX (50Mbps) |
| | DVCAM (25Mbps) |
| | <FAT> |
| Recording Format (Audio) | HQ (35Mbps) |
| | SP (25Mbps) |
| | DVCAM (25Mbps) |
| | <UDF> |
| | MPEG HD422: 4ch / 24bits / 48 kHz |
| | MPEG HD: 4ch / 16bits / 48 kHz |
| Lens (PMW-300K1) | MPEG IMX: 4ch / 24bits / 48 kHz or 4ch / 16bits / 48kHz |
| | DVCAM: 4ch / 16bits / 48kHz |
| | <FAT> |
| | HQ / SP: 4ch / 16bits / 48kHz |
| | DVCAM: 2ch / 16bits / 48kHz |
| | |
| Lens (PMW-300K2) | |
| Lens Mount | 1/2-inch type EX mount |
| Zoom Ratio | 14x (optical), servo/manual |
| Focal Length | f = 5.8 – 81.2 mm (equivalent to 31.4 – 439 mm on 35 mm lens) |
| Iris | F1.9 to F16 and Close, auto/manual selectable |
| Focus | AF/MF/Full MF selectable, 800 mm to ∞ (MACRO OFF), 50 mm to ∞ (MACRO ON, Wide), 735 mm to ∞ (MACRO ON, Tele) |
| Filter Diameter | M77 mm, pitch 0.75 mm |
| Lens (PMW-300K2) | |
| Lens Mount | 1/2-type SONY bayonet (supplied with conversion adaptor) |
| Zoom Ratio | 16x (optical), servo/manual |
| Focal Length | f = 5.8 – 93 mm (equivalent to 31.4 – 503 mm on 35 mm lens) |
| Iris | F1.9 to F16 and Close, auto/manual selectable |
| Focus | AF/MF/Full MF selectable, 800 mm to ∞ (MACRO OFF), 50 mm to ∞ (MACRO ON, Wide), 782 mm to ∞ (MACRO ON, Tele) |
| Filter Diameter | M82 mm, pitch 0.75 mm |

| Camera Section | |
|--------------------------|--|
| Imaging Device (Type) | 3-chip 1/2-inch type "Exmor" Full HD CMOS |
| Effective Picture | 1920 (H) x 1080 (V) |
| Built-in Optical Filters | OFF: Clear, 1: 1/4ND, 2: 1/16ND, 3: 1/64ND |
| Horizontal Resolution | 1,000 TV lines or more (1920 x 1080i mode) |
| Gain | -3, 0, 3, 6, 9, 12, 18 dB, AGC |
| Input/Output | |
| Audio Input | XLR-type 3-pin (female) (x2), Line/mic/mic +48 V selectable Line: +4dBu Mic: -70dBu—30dBu |
| Video Output | BNC (x1) HD-Y / Composite 1.0Vp-p, 75 Ω (switchable to Genlock in) |
| Audio Output | A/V multi connector -10dBu (Reference Level), 47kΩ |
| SDI Output | BNC (x2), HD/SD selectable SMPTE 292M/259M standards |
| i.LINK | IEEE 1394, 4-pin (x1), HDV (HDV 1080i) / DVCAM stream input/output, S400 *while FAT mode is selected |
| Timecode Input | BNC (x1) (switchable to TC out) SMPTE 12M-2-2008 standard 0.5V-1.8Vp-p, 10kΩ |
| Timecode Output | BNC (x1) (switchable to TC in) SMPTE 12M-2-2008 standard 1.0Vp-p, 10kΩ |
| Genlock Input | BNC (x1) (switchable to Video out) 1.0Vp-p, 75Ω |
| USB | Type A (x1), Type B (x1) |
| Headphone Output | Stereo mini jack (x1) -18dBu 16Ω |
| Remote | 8-pin |
| HDMI Output | Type A (x1) |
| Monitoring | |
| Viewfinder | 3.5-inch type color LCD: 960 (H) x 3 (RGB) x 540 (V), 16:9 |

OPTIONAL ACCESSORIES



SBP-128B/SBP-64B
SxS PRO+ Memory Card



SBS-64G1A/SBS-32G1A
SxS-1 Memory Card



MEAD-SD02
SD Card Adaptor



MEAD-MS01
Memory Stick Adaptor



QDA-EX1
XQD Adaptor



SBAC-US20
SxS Memory USB Reader/Writer



Fujinon ACM-21 *1
2/3-Inch Lens Adaptor



Fujinon XS8x4AS-XB8
EX Mount Wide-angle Lens



ECM-680S
Stereo Microphone



ECM-MS2
Stereo Microphone



ECM-678/674/673
Monaural Microphone



BP-U90/U60/U30
Li-Ion Battery Pack



BC-U1
Battery Charger (1-slot)



BC-U2
Battery Charger (2-slot)



CBK-WA01
Wi-Fi Adaptor

*1 When using 2/3-inch type lenses with the PMW-EX3 camcorder, the Fujinon ACM-21 lens mount adaptor must be used. For details, please contact the manufacturer.

Distributed by

©2013 Sony Corporation of Hong Kong Ltd. All rights reserved.
Reproduction in whole or in part without written permission is prohibited.
Features, design, and specifications are subject to change without notice.
The values for dimension are approximate.
SONY, make believe, XDCAM, Exmor, MPEG IMX, DVCAM, i.LINK, XAVC and SxS are trademarks of Sony Corporation.
All other trademarks are the property of their respective owners.

The PMW-300 is produced at Sony EMCS Corporation's Tokai Technology Center, which has received ISO14001, the Environmental Management System certification.

