

α5100 E-MOUNT CAMERA WITH APS-C SENSOR

Lens

Lens Mount

E-mount

Lens compatibility

Sony E-mount lenses

Sensor

Type

APS-C

Sensor

APS-C type (23.5 x 15.6mm), Exmor™ CMOS sensor

Number Of Pixels (Effective)

Approx. 24.3 megapixels

Number of Pixels (total)

Approx. 24.7 megapixels

Image Sensor Aspect Ratio

3:2

Anti-Dust System

Charge protection coating on Optical Filter

Recording (still images)

Recording Format (Still images)

JPEG (DCF Ver. 2.0, Exif Ver. 2.3, MPF Baseline compliant), RAW (Sony ARW 2.3 format)

Image Size (pixels), 3:2

L: 6000 x 4000 (24M), M: 4240 x 2832 (12M), S: 3008 x 2000 (6.0M)

Image Size (pixels), 16:9

L: 6000 x 3376 (20M), M: 4240 x 2400 (10M), S: 3008 x 1688 (5.1M)

Image Size (pixels), Sweep Panorama

Wide: horizontal 12416 x 1856 (23M), vertical 5536 x 2160 (12M), Standard: horizontal 8192 x 1856 (15M), vertical 3872 x 2160 (8.4M)

Image Quality Modes

RAW, RAW & JPEG, JPEG Fine, JPEG Standard

Picture Effect

13 modes: Posterization (Color, B/W), Pop Color, Retro Photo, Partial Color (R, G, B, Y), High Contrast Monochrome, Toy Camera, Soft High-key, Soft Focus, HDR Painting, Rich-tone Monochrome, Miniature, Watercolour, Illustration

Creative Style

Standard, Vivid, Portrait, Landscape, Sunset, Black & White, Sepia (Contrast -3 to +3 steps, Saturation -3 to +3 steps, Sharpness -3 to +3 steps)

Dynamic Range Functions

Off, Dynamic Range Optimiser (Auto/Level (1-5)), Auto High Dynamic Range: Auto Exposure Difference, Exposure Difference Level (1.0-6.0 EV, 1.0 EV steps)

Colour Space

sRGB standard (with sYCC gamut) and Adobe RGB standard compatible with TRILUMINOS™ Color

Recording (movie)

Recording Format (Movie)

XAVC S / AVCHD format Ver. 2.0 compliant / MP4

Video Compression

XAVC S: MPEG-4 AVC/H.264, AVCHD: MPEG-4 AVC/H.264, MP4: MPEG-4 AVC/H.264

Audio Recording Format

XAVC S: LPCM 2ch, AVCHD: Dolby Digital (AC-3) 2ch, Dolby Digital Stereo Creator, MP4: MPEG-4 AAC-LC, 2ch

Image Size (Pixels), NTSC

XAVC S: 1920 x 1080 (60p/50Mbps, 30p/50Mbps, 24p/50Mbps), AVCHD: 1920 x 1080 (60p/28Mbps/PS, 60i/24Mbps/FX, 60i/17Mbps/FH, 24p/24Mbps/FX, 24p/17Mbps/FH), MP4: 1440 x 1080 (30fps/12Mbps), 640 x 480 (30fps/3Mbps)

Image Size (pixels), NTSC*

AVCHD: 1920 x 1080 (60p, 28M, PS), 1920 x 1080 (60i, 24M, FX), 1920 x 1080 (60i, 17M, FH), 1920 x 1080 (24p, 24M, FX), 1920 x 1080(24p, 17M, FH), MP4: 1440 x 1080 (30fps), VGA (640 x 480, 30 fps), XAVC S: 1920 x 1080 (60p, 50M), 1920 x 1080 (30p, 50M), 1920 x 1080 (24p, 50M)

Image Size (pixels), PAL

XAVC S: 1920 x 1080 (50p/50Mbps, 25p/50Mbps), AVCHD: 1920 x 1080 (50p/28Mbps/PS, 50i/24Mbps/FX, 50i/17Mbps/FH, 25p/24Mbps/FX, 25p/17Mbps/FH), MP4: 1440 x 1080 (25fps/12Mbps), 640 x 480 (25fps/3Mbps)

Movie Functions

Dual Video REC, Auto Slow Shutter, HDMI info. Display (On/Off selectable), AF tracking duration, AF drive speed

Colour Space

xvYCC standard (x.v.Color™ when connected via HDMI cable) compatible with TRILUMINOS™ Color

Storage Media

Compatible Recording Media

Memory Stick PRO Duo™, Memory Stick PRO-HG Duo□™, Memory Stick XC-HG Duo™, SD memory card, SDHC memory card (UHS-I compliant), SDXC memory card (UHS-I compliant)

Storage Media Slot

Multi slot for Memory Stick Duo™/ SD Memory card

Noise Reduction

Noise Reduction

Long exposure NR: Available at shutter speeds longer than 1 sec., High ISO NR: Normal/Low selectable

White balance

White Balance Modes

Auto WB / Daylight / Shade / Cloudy / Incandescent / Fluorescent (Warm White / Cool White / Day White / Daylight) / Flash / Color Temperature (2500 to 9900K) & Color Filter (G7 to M7: 57 steps, A7 to B7: 29 steps) / Custom / Underwater

AWB Micro Adjustment

G7 to M7 (57 steps), A7 to B7 (29 steps)

Bracketing

3 frames, H/L selectable

Focus

Focus Type

Fast Hybrid AF(phase-detection AF/contrast-detection AF)

Focus Sensor

Exmor™ CMOS sensor

Focus Point

179 points (phase-detection AF) / 25 points (contrast-detection AF)

Focus Sensitivity Range

EV-1 to EV20 (ISO100 equivalent with F2.0 lens attached)

AF Mode

Automatic AF (AF-A), Single-shot AF (AF-S), Continuous AF (AF-C), Direct Manual Focus (DMF), Manual Focus

Focus Area

Wide (179 points (phase-detection AF), 25 points (contrast-detection AF)) / Zone / Centre / Flexible Spot (S/M/L) / Lock-on AF (Wide / Zone / Centre / Flexible Spot (S/M/L))

Other Features

Lock-on AF, Eye AF, Predictive control, Focus lock, AF micro adjustment (both only available with optional LA-EA2 or LA-EA4 attached), AF illuminator (built-in, LED type, range: approx. 0.30-3m)

Type

Built-in flash

AF Illuminator range

Approx. 0.3- approx. 3.0 m (with E PZ 16-50mm F3.5-5.6 OSS lens attached)

Exposure

Metering Type

1200-zone evaluative metering

Metering Sensor

Exmor™ CMOS sensor

Metering Sensitivity

EV-1 to EV20 (at ISO100 equivalent with F2.0 lens attached)

Metering Mode

Multi-segment, Center-weighted, Spot

Exposure Modes

AUTO (iAUTO, Superior Auto), Programmed AE (P), Aperture priority (A), Shutter-speed priority (S), Manual (M), Scene Selection, Sweep Panorama, Movie

Scene Selection

Portrait, Landscape, Macro, Sports Action, Sunset, Night Portrait, Night Scene, Hand-held Twilight, Anti Motion Blur

Exposure Compensation

Still images: +/- 3.0EV (1/3EV steps), Movies: +/- 2.0 V (1/3 V steps)

Auto (AE) Bracketing

With 3 frames in 1/3 EV, 1/2 EV, 2/3 EV, 1.0 EV, 2.0 EV or 3.0 EV increments, With 5 frames in 1/3 EV, 1/2 EV or 2/3 EV increments.

AE Lock

Locked when shutter button is pressed halfway. (Auto/On/Off selectable)

ISO Sensitivity (Recommended Exposure Index)

Still images: ISO 100-25600, AUTO (ISO 100-25600, selectable lower limit and upper limit), Movies: ISO 100-12800 equivalent, AUTO (ISO 100-12800 equivalent, selectable lower limit and upper limit)

LCD Screen**Type**

7.5cm (3.0 type) wide type TFT drive

Touchscreen

Yes

Total Number of Dots

921,600 dots

Brightness Control (LCD)

Manual (5 steps between -2 and +2), Sunny Weather mode

Adjustable Angle

Up by approx. 180 degrees

LCD Display

Graphic Display, Display All Info., No Disp. Info., Histogram

Real-time Image Adjustment Display (LCD)

On/Off

Focus Magnifier

5.9x, 11.7x

Zebra

Yes

Peaking MF

Yes (Level setting: High/Mid/Low/Off, Color: White/Red/Yellow)

Other Features

Face Detection

On / On (Regist. Faces) / Off, Face registration, Face selection (Max. number of detectable faces: 8)

Auto Object Framing

Yes (Still Images)

Clear Image Zoom

Approx. 2x

Smart zoom (Still Image)

M: Approx. 1.4x, S: Approx. 2.0x

Digital zoom (Still Image)

L: Approx. 4x, M: Approx. 5.7x, S: Approx. 8x

Digital zoom (Movie)

Approx. 4x

PlayMemories Camera Apps™

Yes*1

Lens Compensation

Peripheral shading, chromatic aberration, distortion

Self-Portrait

Yes (3 sec delay / OFF selectable)

Smile Shutter

Smile shutter (selectable from 3 steps)

Touch Shutter

Yes

Shutter**Shutter Type**

Electronically controlled, vertical-traverse, focal-plane type

Shutter Speed

Still images: 1/4000 to 30 sec., Bulb, Movies: 1/4000 to 1/4 (1/3 steps), NTSC: Up to 1/60 in AUTO mode (up to 1/30 in Auto Slow Shutter mode), PAL: Up to 1/50 in AUTO mode (up to 1/25 in Auto Slow Shutter mode)

Flash Sync. Speed

1/160 sec.*2

Electronic Front Shutter Curtain

Yes

Image stabilisation**SteadyShot**

Not supported (image stabilisation supported on lens)

Compensation Effect

Lens Compensation: Peripheral Shading, Chromatic Aberration, Distortion

Flash Control**Flash Control**

Pre-flash TTL

Flash Compensation

+/- 2.0 V (1/3 V steps)

Flash Range

16mm (focal-length printed on the lens body)

Flash Modes

Flash off, Autoflash, Fill-flash, Rear Sync., Slow Sync., Red-eye reduction (On/Off selectable)

Flash Type

Built-in flash

Drive

Drive Modes

Single shooting, Continuous shooting (Hi / Low selectable), Self-timer (10/2 sec. delay selectable), Self-timer (Cont.) (10 sec. Delay, 3/5 frames selectable), Bracketing (Cont., Single, White Balance, DRO)

Continuous Drive Speed (approx. max.)

6 fps (in High Continuous shooting)

Speed (approx. max.)

JPEG Fine L: 56 frames, JPEG Standard L: 75 frames, RAW: 23 frames, RAW & JPG: 22 frames*3

No. of recordable frames (approx.)

JPEG Fine L: 56 frames, JPEG Standard L: 75 frames, RAW: 23 frames, RAW & JPG: 22 frames*3

Playback

Playback Modes

Single (with or without shooting information, YRGB histogram & highlight/shadow warning), 12/30-frame index view, Enlarged display mode (L: 16.7x, M: 11.8x, S: 8.3x, Panorama (Standard): 19.2x, Panorama (Wide): 29.1x), Auto Review (10/5/2 sec, off), Image orientation (Manual/Off selectable), Slideshow, Panorama scrolling, Folder selection (Still / Date / MP4 / AVCHD / XAVC S), Forward/Rewind (Movie), Delete, Protect

Interface

PC Interface

Mass-storage, MTP, PC remote

Multi / Micro USB Terminal

Yes*5

Wireless LAN (Built-In)

Wi-Fi Compatible, IEEE802.11 b/g/n (2.4 GHz band)*4 Playback of still images and movies on smartphones, PCs and TVs

NFC™

Yes (NFC Forum Type 3 Tag compatible, One-touch remote, One-touch sharing)

HD Output

HDMI micro connector (Type-D), BRAVIA™ Sync (Control for HDMI), PhotoTV HD, 4K still image playback

Interfaces

Multi/Micro USB Terminal, PC remote

Audio**Microphone**

Built-in stereo microphone

Speaker

Built-in, monaural

Print**Compatible Standards**

Exif Print, Print Image Matching III, DPOF setting

Custom function**Custom Function Type**

Custom key settings

Power**Supplied Battery**

NP-FW50 W-series Rechargeable Battery Pack

Battery Life (Still Images)

Approx. 400 shots (CIPA standard)*7

Battery Life (CIPA, Movies)

Actual*8 *9: Approx. 75 min (CIPA standard) Continuous*8 *10: Approx. 110 min (CIPA standard)

External Power

AC-PW20 AC Adaptor (optional)

Internal Battery Charge

Yes

Size & Weight**Dimensions (W x H x D)**

Approx. 109.6 x 62.8 x 35.7 mm

Weight (with battery and memory card included)

Approx. 283g (With battery and Memory Stick PRO Duo™) / Approx. 224g (Body only)

Operating temperature**Range**

32°-104°F / 0-40°C

Wi-Fi®

View on Smartphone

Yes

Upload to PC

Yes

View on TV

Yes

Wireless and network capabilities

Downloadable camera apps, NFC One-touch functionality, Wi-Fi

Compatible OS

Compatible OS

Windows Vista® SP2*6, Windows® 7 SP1, Windows® 8, Windows 8.1®, Mac OS® X (v10.7-v10.9)