



Specifications

Camera	
Lens Compatibility	Sony E-mount, operation with Minolta/Konica Minolta Maxxum A-mount lenses confirmed via optional LA-EA1/LA-EA2 adaptor
Lens Mount	Sony E-mount
Camera Type	Interchangeable Lens Digital SLR camera
Imaging Sensor	
Imaging Sensor	Exmor® APS HD CMOS sensor (23.5 X 15.6mm)
Processor	BIONZ™ image processor
Anti Dust	Charge protection coating on Optical Low-pass Filter
Pixel Gross	20.4M pixels (approx.)
Effective Picture Resolution	20.1M pixels (approx.)
Focal Length Conversion Factor	1.5x
Color Filter System	RGB primary color filters
Recording	
Media Type	Memory Stick PRO Duo™/Pro-HG Duo™ media; SD, SDHC and SDXC memory card
Color Space	Stills: sRGB, AdobeRGB Movie: xvYCC standard (x.v.Color™ when connected via HDMI cable) compatible with TRILUMINOS™ color
Still Image Mode	JPEG (Standard, Fine), RAW+JPEG
Still Image Max Effective Resolution	20.1 Megapixels
Still Image Size 16:9	L (17 MP) 5456 x 3064, M (12 MP) 3872 x 2176, S (4.2 MP) 2736 x 1824
Still Image Size 3:2	L (20 MP) 5456 x 3632, M (10 MP) 3872 x 2576, S (5 MP) 2736 x 1824
Panorama Still Image Size	Horizontal Wide: 12,416 x 1,856 (23M) Horizontal Std.: 8,192 x 1,856 (15M) Vertical Wide: 2,160 x 5,536 (12M) Vertical Std.: 2,160 x 3,872 (8.4M)
Video Mode	AVCHD™ / MP4 (MPEG-4 AVC (H.264))
Video Resolution	AVCHD™: FX - 1920 x 1080/60i@24Mbps FH - 1920 x 1080/60i@17Mbps FX - 1920 x 1080/24p@24Mbps FH - 1920 x 1080/24p@17Mbps MP4: HD - 1440 x 1080/ 30p@12Mbps VGA - 640 x 480/ 30p@3Mbps
Video Signal	NTSC color, EIA standards
Audio Format	Dolby Digital (AC-3) / MPEG-4 AAC-LC
Microphone/Speaker	Built-in Stereo Microphone/ Built-in monaural speaker; volume settings in 8 steps between 0 and 7
Still Image File Format	JPEG (DCF Ver. 2.0, Exif Ver.2.3, MPF Baseline compliant), RAW (Sony ARW 2.3format)
Optics/Lens	

Lens Type	Sony E-mount
Lens Mount Type	Sony E-mount
Lens Stabilization	Optical SteadyShot
Aperture (Max.)	F3.5 - 5.6
Aperture (Min.)	F22 - F32
Optical Zoom	Approx. 3x
Digital Zoom	20.1M pixels (approx.) Yes, approx. 4x
Focal Length (35mm equivalent)	27 - 82.5 mm
Filter Diameter	49mm
Lens Groups-Elements	9/11
Minimum Focus Distance	9-13/16 in. (.25m)
AF for Movie Capture	Contrast AF
Angle of View	76° - 29°
Aperture Blade	7
Aspheric Elements	3 elements
Dimensions (Max. Diameter x Length)	2-1/2 x 2-3/8 in. (62 x 60 mm)
Direct Manual Focus	Yes
Exterior Finish	Black
Internal Motor	Yes
Lens Weight	6.9 oz. (194 g.)
Low Noise During Movie Capture	Yes
Maximum Magnification	0.3x
EV Compensation	Still images: +/-3.0 EV(1/3EV steps selectable) Movies: +/-2.0 EV(1/3EV steps selectable)
Macro Mode	Yes
Magnification	0.3x

Viewfinder

Type	1/2-inch (1.3 cm) color electronic viewfinder
Diopter Adjustment	-4.0 m-1 ~ +3.5 m-1 (diopter)
Field of View	100%
Magnification	Approx. 0.7x with 50 mm lens at infinity, -1 m-1 (diopter)

LCD Display

LCD Type	3.0" (7.5cm) TFT LCD (230,400 dots)
Angle Adjustment	Auto, Manual (5 steps between -2 to +2)
Coverage	100%
Live View	Continuous Live View
Real-time image adjustment display	Yes(On/Off)
Histogram	Yes (On/off)
Peaking	Yes (Level setting: High/Mid/Low/Off, Color: White/Red/Yellow)
Grid Display	Yes (Rule of Thirds, 4x6 Square, Diagonal 4x6 Square Grids, Off)
Customization	Grid, Histogram display, Digital Level Gauge, Grid Line, Magnified display for playback

Focus Control

Focus System	Contrast-detect AF
Focus Points	25 points (contrast-detection AF)
AF Modes	Single-shot AF(AF-S), Continuous AF(AF-C), Auto Focus, Direct Manual Focus (DMF), Manual Focus
Focus Area	Multi Point (25 points)/ Center-weighted/ Flexible Spot
Focus Sensitivity	EV 0 to 20 EV (at ISO100 equivalent, with F2.8 lens attached)

Manual Focus Assist	MF Assist (4.8x, 9.6x)
Focus Features	Predictive control (AF-A, AF-C), Focus Lock
AF Illuminator	Yes (with built-in LED type)
Exposure System	
Metering	Advanced 1200-zone evaluative metering
Metering Modes	Multi-segment, Center-weighted, Spot
Metering Sensitivity	EV 0 to 20 EV (at ISO100 equivalent, with F2.8 lens)
Exposure Compensation	Still images: +/-3.0 EV(1/3EV steps selectable) Movies: +/-2.0 EV(1/3EV steps selectable)
Exposure Settings	iAUTO, Superior Auto, Programmed AE (P), Aperture priority (A), Shutter-speed priority (S), Manual (M), Sweep Panorama, Scene Selection
Scene Mode(s)	Portrait, Landscape, Macro, Sports Action, Sunset, Night Portrait, Night View, Hand-held Twilight, Anti Motion Blur
Picture Effect(s)	11 modes (15 effects): Posterization (Color, B/W), Pop Color, Retro Photo, Partial Color (R,G,B,Y), High Contrast Mono, Toy Camera, Soft High-key, Soft Focus, HDR Painting, Rich-tone Mono, Miniature
D-Range Optimizer	Yes: (Auto, Level, Off)
Auto Exposure Lock	Yes (AE Lock button). Can be disabled from menu
Color Temperature	2500 - 9900K with 15-step each Magenta/Green compensation (G7 to M7), Amber/Blue (A7 to B7), Custom
Creative Style	Standard, Vivid, Portrait, Landscape, Sunset, Black White (Contrast (-3 to +3steps), Saturation(-3 to +3steps), Sharpness(-3 to +3steps)
Exposure Bracketing	3 continuous or single shots in 1/3 or 2/3 EV steps
ISO	Stills: ISO 100-16000 selectable in 1 EV steps, Auto (100-3200) Movies: ISO 100-3200 selectable in 1 EV steps, Auto (200-3200)
Noise Reduction	Long exposure NR: available of shutter speeds longer than 1 sec.
White Balance Mode	Auto, Daylight, Shade, Cloudy, Incandescent, Fluorescent, Flash, Color temperature range 2500 to 9900K, Custom
Drive System	
Burst Buffer	JPEG Standard (30 shots) JPEG Fine (13 shots) RAW+JPEG (5 shots)
Continuous Shooting Speed	Continuous mode: 2.5 fps, Speed Priority Continuous mode: 3.5 fps
Drive Mode	Single-shot, Continuous, Speed Priority Continuous, Self-timer (10/2 sec. delay), Self-timer (Cont.) (with 10 sec. delay; 3/5 exposures), Bracketing
Self-timer	2-sec. or 10-sec. delay
Shutter Speeds	1/4000 to 30 seconds, bulb
Shutter Type	Electronically-controlled, vertical-traverse, focal-plane shutter
Flash	
Flash Compensation	±2.0 EV (switchable between 1/3 EV steps)
Flash Coverage	16 mm (focal length printed on lens body)
Recycling Time	Approx. 3 sec.
Flash Bracketing	±2.0 EV
Flash Metering System	Pre-flash TTL
Flash Modes	Flash off, Auto flash, Fill-flash, Slow Sync., Rear Sync.
Flash Type	Built-in, Pop-up Auto
Guide Number	6 (in meters at ISO200) 4 (in meters at ISO100)
Convenience Features	
Self Timer	Yes
Red-Eye Reduction	Yes
Erase/Protect	Yes
Media/Battery Indicator	Yes

Power Save Mode	Yes
Still Image Playback Options	Slideshow, Panorama scrolling, Folder selection (Still)
Video Playback Options	Forward/Rewind (movie)
Multiple Language Display	Yes
View Index	Single (with or without shooting information), RGB histogram and highlight/shadow warning, 4/9-frame index view, Enlarged display mode (L: 13.6x, M: 9.9x, S: 6.8x), Auto Review (10/5/2sec, Off), Image orientation (On/Off), Slideshow, Panorama scrolling, Folder selection (still), Forward/Rewind (movie), Delete, Protect

Advanced Features

Anti Motion Blur	Yes
Auto High Dynamic Range	Yes, (Auto Exposure Difference, Exposure difference Level (1-6 EV at 1.0 EV step), off)
Sweep Panorama	Horizontal (Wide/Standard), Vertical (Wide/Standard)
Face Detection	On, Off, Face Registration, Face Selection; maximum eight faces detected
Smile Shutter™ technology	Smile shutter (selectable from 3 steps)
Intelligent Auto	Yes
Shooting Tips	Yes
Superior Auto	Yes
Tracking Focus	Yes
Image Stabilization	Lens-based (where applicable)
Photo Creativity	Yes
Priority Setting (for Face Detection)	Yes (eight faces max)

Interface

Remote Commander	Yes, via optional RM-VPR1
Accessory Shoe	Yes, via Multi Interface Shoe
PictBridge Compatible	Yes
A/V Remote Terminal	Yes, via Multi Terminal interface
BRAVIA® Sync™	Yes, via HDMI® with compatible BRAVIA HDTV (link menu)
DC IN	Yes via optional AC-PW20AM (sold separately)
HDMI Terminal	HDMI® (Type C mini)
Memory Card Slot	Dual compatibility slot: Memory Stick PRO Duo™/Pro-HG Duo™/PRO-HG HX Duo™ media - SD, SDHC and SDXC memory card
NFC	Yes (NFC Forum Type 3 Tag compatible, One-touch remote, One-touch sharing)
PhotoTV HD	Yes, with BRAVIA Sync enabled HDTV and HDMI® cable
Tripod Mount	Yes, 1/4" (20 thread count)
USB Port(s)	USB 2.0 Hi-speed (mass-storage, MTP)
Wi-Fi	Yes

Weights and Measurements

Dimensions (Approx.)	Approx. 4 × 2-9/32 × 1-1/2 (101.6 x 58.1 x 38.3 mm) (W/H/D) excluding protrusions
Weight (Approx.)	With battery and Memory Stick PRO Duo Approx. 9.9 oz. (281 g)
Weight(Approx) (Main unit only)	Approx. 7.8 oz. (222 g)

Power

Battery Type	InfoLITHIUM® NP-FW50 (7.2V)
Battery Capacity	1080 mAh
Number of Still Images	Approx. 480 Images with LCD monitor (CIPA standard)
Power Requirements	One rechargeable battery pack (NP-FW50)
Power Consumption (in View Finder Operation)	Still images: approx.2.0W(with E 18-55mm F3.5-5.6 OSS lens attached), Movies: approx.3W(with E 18-55mm F3.5-5.6 OSS lens attached)

Software

Supplied Software	Supplied Software: PlayMemories Home, Image Data Converter Version 4
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Operating System Compatibility	Operating System Compatibility: Windows® XP SP3 (64-bit and Starter Editions are not supported, Windows Image Mastering API(IMAPI) Ver.2.0 or later is required to use the function for creating discs.) Windows Vista® SP2 (Starter Edition is not supported) Windows® 7 SP1; Windows® 8; Mac OS X(v10.5 -v10.8) (Image Data Converter, PlayMemories Home is not Mac compatible)
Accessories	
Supplied Accessories	SEL1855 lens Lens cap Rechargeable battery (NP-FW50) AC adaptor (AC-UB10) Shoulder strap Body cap Micro USB cable

1. Records in up to 29 minutes segments.

5. Attaching Sony A-mount lens requires LA-EA1 (note: Autofocus available with SSM and SAM series lenses when using LA-EA1) or LA-EA2 adaptors (sold separately).

6. Compatible with BRAVIA® Sync or Theatre Sync™ HDTVs connected via HDMI®.

7. Actual performance varies based on settings, environmental conditions, and usage. Battery capacity decreases over time and use.

8. Requires compatible BRAVIA® HDTV and cable sold separately.

9. Auto Focus function available with Sony E-Mount lenses and Sony A-mount SSM and SAM series lenses when using LA-EA1.