

# ILCE-7R/B

# $\alpha$ 7R (Alpha 7R) Interchangeable Lens

Compressed Model Name: ILCE7R/B UPC: 027242874787 First Customer Ship: MISSING<cc> SRP: MISSING<cc> SPPG: 0.0 SURE: MISSING<cc>

# **Bullets**

#### Short bullets

- World's lightest interchangeable lens full-frame camera
- Full Frame 36.3 MP resolution with 14-bit RAW recording
- Fast Intelligent AF optimized for full-frame sensor
- Fully compatible w/ Sony's E-mount and new full-frame lenses
- Direct access interface for fast, natural shooting control
- High contrast 2.4-million dot OLED EVF for eye-level framing
- Simple connectivity to smartphones via Wi-Fi® or NFC
- PC control w/ remote video capture control
- New high-speed BIONZ® X image processor
- Full HD movie at 24p/60i/60p w/uncompressed HDMI output

# Marketing

#### 10-Word Ad Copy

Introducing the no-compromise full frame that's so small, you'll take it everywhere.

#### 25-Word Ad Copy

Introducing the no-compromise full frame that's so small, you'll take it everywhere. Interchangeable lenses. 36MP. OLED viewfinder—all in a compact body that's ready to go.

#### 50-Word Ad Copy

No other full frame, interchangeable-lens camera is this light or this portable. 36MP of rich detail. A true-to-life 2.4 million dot OLED viewfinder. Wi-Fi sharing and an expandable shoe system. It's all the full-frame performance you ever wanted in a compact size that will change your perspective entirely.

#### **Key Features**

#### World's smallest lightest interchangeable lens full-frame camera

Sony's Exmor image sensor takes full advantage of the Full-frame format, but in a camera body less than half the size and weight of traditional full-frame DSLRs

#### Ultimate full frame 36.3 MP resolution with gapless sensor lens design

The unrivaled 36.3-effective-megapixel resolution and outstanding optical lens performance are optimized by removing the optical low-pass filter. In combination with the new BIONZ X image processing engine, this design enhances the reproduction of the finest of details. In addition, the sensor includes a new gapless lens design that fills the space between neighboring pixels to significantly increase light collecting efficiency and realize high corner-to-corner image quality.

#### Fast Intelligent AF for responsive, accurate, and greater operability with full frame sensor

The high-speed image processing engine and improved algorithms combine with optimized image sensor read-out speed to achieve ultra-high-speed AF despite the use of a full-frame sensor.



## New Eye AF control

Even when capturing a subject partially turned away from the camera with a shallow depth of field, the face will be sharply focused thanks to extremely accurate eye detection that can prioritize a single pupil. A green frame appears over the prioritized eye when focus has been achieved for easy confirmation. Eye AF can be used when the function is assigned to a customizable button, allowing users to instantly activate it depending on the scene.

#### Fully compatible with Sony's E-mount lens system and new full-frame lenses

To take advantage of the lightweight on-the-go body, the α7R is fully compatible with Sony's E-mount lens system and expanded line of E-mount compact and lightweight full-frame lenses from Carl Zeiss and Sony's premier G-series.

#### Direct access interface for fast, intuitive shooting control

Quick Navi Pro displays all major shooting options on the LCD screen so you can rapidly confirm settings and make adjustments as desired without searching through dedicated menus. When fleeting shooting opportunities arise, you'll be able to respond swiftly with just the right settings.

#### High contrast 2.4M dot OLED EVF for eye-level framing

View every scene in rich detail with the XGA OLED Tru-Finder, which features OLED improvements and the same 3-lens optical system used in the flagship  $\alpha$ 99. The viewfinder faithfully displays what will appear in your recording, including the effects of your camera settings, so you can accurately monitor the results. You'll enjoy rich tonal gradations and 3 times the contrast of the  $\alpha$ 99. High-end features like 100% frame coverage and a wide viewing angle are also provided.

## 3.0" 1.23M dot LCD tilts for high and low angle framing

The tiltable 3.0" (1,229k dots) Xtra Fine™ LCD Display makes it easy to photograph over crowds or low to capture pets eye to eye by swinging up approx. 84° and down approx. 45°. Easily scroll through menus and preview life thanks to WhiteMagic™ technology that dramatically increases visibility in bright daylight. The large display delivers brilliant-quality still images and movies while enabling easy focusing operation.

#### Simple connectivity to smartphones via Wi-Fi® or NFC

Connectivity with smartphones for One-touch sharing/One-touch remote has been simplified with Wi-Fi®/NFC control. In addition to Wi-Fi support for connecting to smartphones, a7R also supports NFC (near field communication) providing "one touch connection" convenience when transferring images to Android™ smartphones and tablets. Users need only touch devices to connect; no complex set-up is required. Moreover, when using Smart Remote Control — a feature that allows shutter release to be controlled by a smartphone — connection to the smartphone can be established by simply touching compatible devices.

#### PC control w/ remote video capture control

Remote Camera Control allows you to control your  $\alpha$ 7R from your PC using a USB cable. Feature control has also been updated to include video capture control.

#### 14-bit RAW output for rich tonal gradation

14-bit RAW image data of extremely high quality is outputted by the  $\alpha$ 7R. This data fully preserves the rich detail generated by the image sensor during the 14-bit A/D conversion process. When developed with Sony's Image Data Converter RAW development software, these images deliver the superb photographic expression and rich gradation that only 14-bit data can offer.

#### New BIONZ X image processing engine

Sony proudly introduces the new BIONZ X image processing engine, which faithfully reproduces textures and details in real time, as seen by the naked eye, via extra high-speed processing capabilities. Together with front-end LSI (large scale integration) that accelerates processing in the earliest stages, it enables more natural details, more realistic images, richer tonal gradations and lower noise whether you shoot still images or movies.

#### Full HD movie at 24p/60i/60p w/uncompressed HDMI output

Capture Full 1920 x 1080 HD uncompressed clean-screen video files to external recording devices via an HDMI® connection in 60p and 60i frame-rates. Selectable in-camera AVCHD™ codec frames rates include super-smooth 60p, standard 60i or cinematic 24p. MP4 codec is also available for smaller files for easier upload to the web.

#### Gapless, optimally positioned on-chip lenses

Sony optimized the design and positioning of every on-chip lens (OCL) covering every pixel to significantly enhance lightgathering efficiency. A gapless on-chip lens design eliminates the gaps between the micro-lenses to collect more light. Moreover, each on-chip lens is optimally positioned depending on its location to accommodate the sharper angle of light entering the periphery, which is caused by larger sensor dimensions being teamed with the E-mount's short flange-back distance.

## Multi-interface Shoe for flash and microphone flexibility

Unlike conventional cameras, the  $\alpha$ 7R features the advanced Multi-Interface Shoe that dramatically expands compatibility with Sony digital imaging accessories, thus raising the potential for photo/movie shooting.

#### 4K Still image output by HDMI or WiFi for viewing on 4K TVs

Enjoy Ultra High Definition slide shows directly from the camera to a compatible 4K television. The α7R converts images for optimized 4K image size playback (8MP). Enjoy expressive rich colors and amazing detail like never before. Images can be viewed via an optional HDMI connection4 or via WiFi.

#### TRILUMINOUS color outputs wider color gamut to compatible devices

TRILUMINOS Color technology, allows you to experience photos and movies in rich, natural colors on any TV equipped with a TRILUMINOS Display. The expanded color gamut immerses you in those unforgettably colorful moments, from the complex shades in a shimmering blue sky to the delicate skin in a baby's face.

#### PlayMemories<sup>™</sup> Camera Apps allows feature upgrades

Personalize your camera by adding new features of your choice with PlayMemories Camera Apps. Find apps to fit your shooting style from portraits, detailed close-ups, sports, time lapse, motion shot and much more. Use apps that shoot, share and save photos using Wi-Fi that make it easy to control and view your camera from smartphone, and post photos directly to Facebook or backup images to the cloud without connecting to a computer.<sup>11</sup>

#### Image Data Converter

Advanced features enable manipulation, conversion and management of full-resolution RAW images. You can expertly adjust exposure, white balance, tonal curves, saturation, contrast, hue and sharpness — as well as apply DRO and vignetting compensation. Bundled Remote Camera Control software also lets you remotely activate and deactivate still/ movie recording and control various camera settings from a PC.

#### Vertical Grip Capable

Enjoy long hours of comfortable operation in the vertical orientation with this sure vertical grip, which can hold two batteries for longer shooting and features dust and moisture protection.

## **Mount Adaptors**

Both of these 35mm full-frame compatible adaptors let you mount the α7R with any A-mount lens. The LA-EA4 additionally features a built-in AF motor, aperture-drive mechanism and Translucent Mirror Technology to enable continuous phase-detection AF. Both adaptors also feature a tripod hole that allows mounting of a tripod to support large A-mount lenses.

## **Specifications**

| Camera                       |                                                                                                                                                                     |  |  |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Lens Compatibility           | Sony E-mount Full Frame, operation with Minolta/Konica Minolta Maxxum A-mount<br>lenses confirmed via optional LA-EA3/LA-EA4 adaptor                                |  |  |
| Camera Type                  | Interchangeable Lens Digital SLR camera                                                                                                                             |  |  |
| Lens Mount Type              | Sony E-mount Full Frame                                                                                                                                             |  |  |
| Imaging Sensor               |                                                                                                                                                                     |  |  |
| Imaging Sensor               | Exmor CMOS sensor (35.9 x 24.0mm)                                                                                                                                   |  |  |
| Processor                    | BIONZ® X image processor                                                                                                                                            |  |  |
| Anti Dust                    | Charge protection coating on optical filter and ultrasonic vibration mechanism                                                                                      |  |  |
| Pixel Gross                  | 36.8 Megapixels (approx.)                                                                                                                                           |  |  |
| Effective Picture Resolution | 36.4 Megapixels (approx.)                                                                                                                                           |  |  |
| Color Filter System          | RGB primary color filters                                                                                                                                           |  |  |
| Recording                    |                                                                                                                                                                     |  |  |
| Media Type                   | Memory Stick PRO Duo, Memory Stick PRO-HG Duo, Memory Stick XC-HG Duo, SD<br>memory card, SDHC memory card (UHS-I compliant), SDXC memory card (UHS-I<br>compliant) |  |  |
|                              |                                                                                                                                                                     |  |  |



|                                      | Still:<br>sRGB standard (with sYCC gamut) and Adobe RGB standard compatible with<br>TRILUMINOS™ Color                                                                      |  |  |  |  |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Color Space                          | Movie:<br>xvYCC standard (x.v.Color™ when connected via HDMI cable) compatible with<br>TRILUMINOS™ color                                                                   |  |  |  |  |
| Still Image Mode                     | RAW, RAW JPEG, JPEG Extra fine, JPEG Fine, JPEG Standard                                                                                                                   |  |  |  |  |
| Still Image Max Effective Resolution | 36.4 Megapixels                                                                                                                                                            |  |  |  |  |
| Still Image Size 16:9                | 35mm full frame:<br>L: 7360 x 4144 (30M), M: 4800 x 2704 (13M), S: 3680 x 2072 (7.6M)<br>APS-C:<br>L: 4800 x 3200 (15M), M: 3680 x 2456 (9.0M), S: 2400 x 1600 (3.8M)      |  |  |  |  |
| Still Image Size 3:2                 | 35mm full frame:<br>L: 7360 x 4912 (36M), M: 4800 x 3200 (15M), S: 3680 x 2456 (9.0M)<br>APS-C:<br>L: 4800 x 3200 (15M), M: 3680 x 2456 (9.0M), S: 2400 x 1600 (3.8M)      |  |  |  |  |
| Panorama Still Image Size            | Horizontal Wide: 12,416 x 1,856 (23M)<br>Horizontal Std.: 8,192 x 1,856 (15M)<br>Vertical Wide: 2,160 x 5,536 (12M)<br>Vertical Std.: 2,160 x 3,872 (8.4M)                 |  |  |  |  |
| Video Mode                           | AVCHD format Ver. 2.0 compliant / MP4                                                                                                                                      |  |  |  |  |
| Video Resolution                     | AVCHD™:<br>PS - 1920 x 1080/60p@28Mbps<br>FX - 1920 x 1080/60i@24Mbps<br>FH - 1920 x 1080/60i@17Mbps<br>FX - 1920 x 1080/24p@24Mbps<br>FH - 1920 x 1080/24p@17Mbps<br>MP4: |  |  |  |  |
|                                      | HD - 1440 x 1080/ 30p@12Mbps<br>VGA - 640 x 480/ 30p@3Mbps                                                                                                                 |  |  |  |  |
| Video Signal                         | NTSC color, EIA standards                                                                                                                                                  |  |  |  |  |
| Audio Format                         | Dolby Di ital (AC-3) / MPEG-4 AAC-LC                                                                                                                                       |  |  |  |  |
| Microphone/Speaker                   | Built-in stereo microphone or ECM-CG50 / XLR-K1M (sold separately)/ Built-in<br>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 2.3 format)                                                                                       |  |  |  |  |
| Optics/Lens                          |                                                                                                                                                                            |  |  |  |  |
| Lens Type                            | Sony E-mount Full Frame                                                                                                                                                    |  |  |  |  |
| Lens Mount Type                      | Sony E-mount Full Frame                                                                                                                                                    |  |  |  |  |
| Digital Zoom                         | Yes, approx. 4x                                                                                                                                                            |  |  |  |  |
| Direct Manual Focus                  | Yes                                                                                                                                                                        |  |  |  |  |
| Exterior Finish                      | Black                                                                                                                                                                      |  |  |  |  |
| EV Compensation                      | +/-5.0 EV (in 1/3 EV or 1/2 EV steps), with exposure compensation dial: +/-3.0 EV (in 1/3 EV step                                                                          |  |  |  |  |
| Viewfinder                           |                                                                                                                                                                            |  |  |  |  |
| Туре                                 | 1/2-inch (1.30 cm) XGA OLED color electronic viewfinder                                                                                                                    |  |  |  |  |
| Diopter Adjustment                   | -4.0 m-1 ~ +3.0m-1 (diopter)                                                                                                                                               |  |  |  |  |
| Field of View                        | 100%                                                                                                                                                                       |  |  |  |  |
| Magnification                        | Approx. 0.71x with 50 mm lens at infinity, -1m-1 (diopter)                                                                                                                 |  |  |  |  |
| LCD Display                          |                                                                                                                                                                            |  |  |  |  |
| LCD Type                             | 3.0" (7.5cm) TFT LCD (921,600 dots) with tiltable design                                                                                                                   |  |  |  |  |
| Brightness Control                   | Manual (5 steps between -2 to +2), Sunny Weather mode                                                                                                                      |  |  |  |  |
| Coverage                             | 100%                                                                                                                                                                       |  |  |  |  |
| Live View                            | Continuous Live View                                                                                                                                                       |  |  |  |  |



| Histogram Peaking Grid Display Grid Display Customization Focus Control Focus System Focus Points AF Modes Focus Area Focus Area Focus Sensitivity Manual Focus Assist                                                                                                                                                                                                                                                                          | Yes(On/Off)<br>Yes (On/off)<br>Yes (Level setting: High/Mid/Low/Off, Color: White/Red/Yellow)<br>Graphic Display / Display All Info. / No Disp. Info. / Histogram / Digital Level Gauge<br>/ Shooting<br>information for viewfinder mode<br>Grid, Histogram display, Digital Level Gauge, Grid Line, Magnified display for<br>playback<br>Contrast-detection AF<br>25 points (contrast-detection AF)<br>Single-shot AF (AF-S), Continuous AF (AF-C), Direct Manual Focus (DMF), Manual<br>Focus<br>Multi Point (25 points) / Center-weighted / Flexible Spot (S/M/L) / Zone<br>EV 0 to 20 EV (at ISO100 equivalent, with F2.8 lens attached)<br>35mm full frame: 7.2x, 14.4x<br>APS-C: 4.7x, 9.4x<br>Lock-on AF, Eye AF, Focus lock, Eye-start AF (only available with optional LA-EA2 or<br>LA-EA4<br>attached), AF illuminator (built-in, LED type, range: Approx. 0.30-3m), AF micro<br>adjustment, AF ON |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Peaking Peaking Grid Display Customization Focus Control Focus System Focus Points AF Modes Focus Area Focus Sensitivity Manual Focus Assist                                                                                                                                                                                                                                                                                                    | Yes (Level setting: High/Mid/Low/Off, Color: White/Red/Yellow)<br>Graphic Display / Display All Info. / No Disp. Info. / Histogram / Digital Level Gauge<br>/ Shooting<br>information for viewfinder mode<br>Grid, Histogram display, Digital Level Gauge, Grid Line, Magnified display for<br>playback<br>Contrast-detection AF<br>25 points (contrast-detection AF)<br>Single-shot AF (AF-S), Continuous AF (AF-C), Direct Manual Focus (DMF), Manual<br>Focus<br>Multi Point (25 points) / Center-weighted / Flexible Spot (S/M/L) / Zone<br>EV 0 to 20 EV (at ISO100 equivalent, with F2.8 lens attached)<br>35mm full frame: 7.2x, 14.4x<br>APS-C: 4.7x, 9.4x<br>Lock-on AF, Eye AF, Focus lock, Eye-start AF (only available with optional LA-EA2 or<br>LA-EA4<br>attached), AF illuminator (built-in, LED type, range: Approx. 0.30-3m), AF micro                                                     |  |  |  |
| Grid Display       Image: Customization         Customization       Image: Customization         Focus Control       Image: Customization         Focus System       Image: Customization         Focus Points       Image: Customization         AF Modes       Image: Customization         Focus Area       Image: Customization         Focus Sensitivity       Image: Customization         Manual Focus Assist       Image: Customization | Graphic Display / Display All Info. / No Disp. Info. / Histogram / Digital Level Gauge<br>/ Shooting<br>information for viewfinder mode<br>Grid, Histogram display, Digital Level Gauge, Grid Line, Magnified display for<br>playback<br>Contrast-detection AF<br>25 points (contrast-detection AF)<br>Single-shot AF (AF-S), Continuous AF (AF-C), Direct Manual Focus (DMF), Manual<br>Focus<br>Multi Point (25 points) / Center-weighted / Flexible Spot (S/M/L) / Zone<br>EV 0 to 20 EV (at ISO100 equivalent, with F2.8 lens attached)<br>35mm full frame: 7.2x, 14.4x<br>APS-C: 4.7x, 9.4x<br>Lock-on AF, Eye AF, Focus lock, Eye-start AF (only available with optional LA-EA2 or<br>LA-EA4<br>attached), AF illuminator (built-in, LED type, range: Approx. 0.30-3m), AF micro                                                                                                                       |  |  |  |
| Focus Control       Focus System       Focus Points       AF Modes       Focus Area       Focus Sensitivity                                                                                                                                                                                                                                                                                                                                     | Contrast-detection AF<br>25 points (contrast-detection AF)<br>Single-shot AF (AF-S), Continuous AF (AF-C), Direct Manual Focus (DMF), Manual<br>Focus<br>Multi Point (25 points) / Center-weighted / Flexible Spot (S/M/L) / Zone<br>EV 0 to 20 EV (at ISO100 equivalent, with F2.8 lens attached)<br>35mm full frame: 7.2x, 14.4x<br>APS-C: 4.7x, 9.4x<br>Lock-on AF, Eye AF, Focus lock, Eye-start AF (only available with optional LA-EA2 or<br>LA-EA4<br>attached), AF illuminator (built-in, LED type, range: Approx. 0.30-3m), AF micro                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Focus System Focus Points Focus Points Focus Area Focus Area Focus Sensitivity Focus Sensitivity                                                                                                                                                                                                                                                                                                                                                | 25 points (contrast-detection AF)<br>Single-shot AF (AF-S), Continuous AF (AF-C), Direct Manual Focus (DMF), Manual<br>Focus<br>Multi Point (25 points) / Center-weighted / Flexible Spot (S/M/L) / Zone<br>EV 0 to 20 EV (at ISO100 equivalent, with F2.8 lens attached)<br>35mm full frame: 7.2x, 14.4x<br>APS-C: 4.7x, 9.4x<br>Lock-on AF, Eye AF, Focus lock, Eye-start AF (only available with optional LA-EA2 or<br>LA-EA4<br>attached), AF illuminator (built-in, LED type, range: Approx. 0.30-3m), AF micro                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
| Focus Points AF Modes Focus Area Focus Sensitivity                                                                                                                                                                                                                                                                                                                                                                                              | 25 points (contrast-detection AF)<br>Single-shot AF (AF-S), Continuous AF (AF-C), Direct Manual Focus (DMF), Manual<br>Focus<br>Multi Point (25 points) / Center-weighted / Flexible Spot (S/M/L) / Zone<br>EV 0 to 20 EV (at ISO100 equivalent, with F2.8 lens attached)<br>35mm full frame: 7.2x, 14.4x<br>APS-C: 4.7x, 9.4x<br>Lock-on AF, Eye AF, Focus lock, Eye-start AF (only available with optional LA-EA2 or<br>LA-EA4<br>attached), AF illuminator (built-in, LED type, range: Approx. 0.30-3m), AF micro                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
| AF Modes<br>Focus Area<br>Focus Sensitivity                                                                                                                                                                                                                                                                                                                                                                                                     | Single-shot AF (AF-S), Continuous AF (AF-C), Direct Manual Focus (DMF), Manual<br>Focus<br>Multi Point (25 points) / Center-weighted / Flexible Spot (S/M/L) / Zone<br>EV 0 to 20 EV (at ISO100 equivalent, with F2.8 lens attached)<br>35mm full frame: 7.2x, 14.4x<br>APS-C: 4.7x, 9.4x<br>Lock-on AF, Eye AF, Focus lock, Eye-start AF (only available with optional LA-EA2 or<br>LA-EA4<br>attached), AF illuminator (built-in, LED type, range: Approx. 0.30-3m), AF micro                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |
| Ar Modes<br>Focus Area<br>Focus Sensitivity                                                                                                                                                                                                                                                                                                                                                                                                     | Focus<br>Multi Point (25 points) / Center-weighted / Flexible Spot (S/M/L) / Zone<br>EV 0 to 20 EV (at ISO100 equivalent, with F2.8 lens attached)<br>35mm full frame: 7.2x, 14.4x<br>APS-C: 4.7x, 9.4x<br>Lock-on AF, Eye AF, Focus lock, Eye-start AF (only available with optional LA-EA2 or<br>LA-EA4<br>attached), AF illuminator (built-in, LED type, range: Approx. 0.30-3m), AF micro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| Focus Sensitivity                                                                                                                                                                                                                                                                                                                                                                                                                               | EV 0 to 20 EV (at ISO100 equivalent, with F2.8 lens attached)<br>35mm full frame: 7.2x, 14.4x<br>APS-C: 4.7x, 9.4x<br>Lock-on AF, Eye AF, Focus lock, Eye-start AF (only available with optional LA-EA2 or<br>LA-EA4<br>attached), AF illuminator (built-in, LED type, range: Approx. 0.30-3m), AF micro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |
| Manual Focus Assist                                                                                                                                                                                                                                                                                                                                                                                                                             | 35mm full frame: 7.2x, 14.4x<br>APS-C: 4.7x, 9.4x<br>Lock-on AF, Eye AF, Focus lock, Eye-start AF (only available with optional LA-EA2 or<br>LA-EA4<br>attached), AF illuminator (built-in, LED type, range: Approx. 0.30-3m), AF micro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |
| Manual Focus Assist                                                                                                                                                                                                                                                                                                                                                                                                                             | APS-C: 4.7x, 9.4x<br>Lock-on AF, Eye AF, Focus lock, Eye-start AF (only available with optional LA-EA2 or<br>LA-EA4<br>attached), AF illuminator (built-in, LED type, range: Approx. 0.30-3m), AF micro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LA-EA4<br>attached), AF illuminator (built-in, LED type, range: Approx. 0.30-3m), AF micro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |
| Focus Features                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yes (with built-in LED type)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| Exposure System                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |
| Picture Effect(s)                                                                                                                                                                                                                                                                                                                                                                                                                               | 13 modes: Posterization (Color, B/W), Pop Color, Retro Photo, Partial Color (R, G,<br>B, Y), High Contrast Monochrome, Toy Camera, Soft High-key, Soft Focus, HDR<br>Painting, Rich-tone Monochrome, Miniature, Watercolor, Illustration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Available with AE lock button. Locked when shutter button is pressed halfway. Ca be disabled from the Menu.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2500 - 9900K with 15-step each Magenta/Green compensation (G7 to M7),<br>Amber/Blue (A7 to B7), Custom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |
| Creative Style                                                                                                                                                                                                                                                                                                                                                                                                                                  | Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night<br>Scene, Autumn<br>Leaves, Black White, Sepia (Contrast -3 to +3 steps, Saturation -3 to +3 steps,<br>Sharpness -3 to +3<br>steps)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
| D-Range Optimizer                                                                                                                                                                                                                                                                                                                                                                                                                               | Off, Dynamic Range Optimizer (Auto/Level (1-5)), Auto High Dynamic Range: Auto<br>Exposure<br>Difference, Exposure Difference Level (1.0-6.0 EV, 1.0 EV step)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                 | +/-5.0 EV (in 1/3 EV or 1/2 EV steps), with exposure compensation dial: +/-3.0 EV (in 1/3 EV steps)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
| Exposure Settings                                                                                                                                                                                                                                                                                                                                                                                                                               | AUTO (IAUTO, Superior Auto), Programmed AE (P), Aperture priority (A), Shutter-<br>speed priority (S),<br>Manual (M), Scene Selection, Sweep Panorama, Movie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| I                                                                                                                                                                                                                                                                                                                                                                                                                                               | Still images: ISO 100-25600 (ISO numbers up from ISO 50 can be set as expanded<br>ISO range),<br>AUTO (ISO 100-6400, selectable lower limit and upper limit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Movies: ISO 200-25600 equivalent, AUTO (ISO 200-6400 equivalent)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |
| 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 attached)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Long exposure NR: On/Off, available at shutter speeds longer than 1 sec., High ISO NR: Normal/ Low/Off selectable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Portrait, Landscape, Macro, Sports Action, Sunset, Night Portrait, Night Scene,<br>Hand-held Twilight, Anti Motion Blur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |
| White Balance Mode                                                                                                                                                                                                                                                                                                                                                                                                                              | Auto WB / Daylight / Shade / Cloudy / Incandescent / Fluorescent (Warm White<br>/ Cool White / Day White / Daylight) / Flash / Color Temperature (2500 to 9900K)<br>Color Filter (G7 to M7: 15 steps, A7 to B7: 15 steps) / Custom / Underwater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |



DC IN

| Drive System                          |                                                                                                                                                                                                                                       |  |  |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|                                       | Continuous shooting:                                                                                                                                                                                                                  |  |  |
| Continuous Shooting Speed             | Max. 1.5fps, Speed Priority Continuous shooting:<br>Max. 4.0fps                                                                                                                                                                       |  |  |
| Drive Mode                            | Single shooting, Continuous shooting, Speed Priority Continuous shooting, Self-<br>timer (10/2 sec delay selectable), Self-timer (Cont.) (10 sec. delay; 3/5 exposures<br>selectable), Bracketing (Cont., Single, White Balance, DRO) |  |  |
| Self-timer                            | 2-sec. or 10-sec. delay                                                                                                                                                                                                               |  |  |
| Shutter Speeds                        | 1/8000 to 30 seconds, bulb                                                                                                                                                                                                            |  |  |
| Shutter Type                          | Electronically-controlled, vertical-traverse, focal-plane shutter                                                                                                                                                                     |  |  |
| Flash                                 |                                                                                                                                                                                                                                       |  |  |
| Flash Bracketing                      | With optional external flash:<br>1/3, 1/2, 2/3, 1, 2, 3 EV steps, 3/5 frames (1.0/2.0/3.0 EV: only 3 frames) selectable                                                                                                               |  |  |
| Flash Compensation                    | With optional external flash: $\pm 3.0$ EV (switchable between 1/3 and 1/2 EV steps)                                                                                                                                                  |  |  |
| Flash Coverage                        | 16 mm (focal length printed on lens body)                                                                                                                                                                                             |  |  |
| Flash Metering System                 | Pre-flash TTL                                                                                                                                                                                                                         |  |  |
| Flash Modes                           | With optional external flash:<br>Flash off, Auto flash, Fill-flash, Rear Sync., Slow Sync., Red-eye reduction (On/Off<br>selectable),<br>Hi-speed sync, Wireless                                                                      |  |  |
| Flash Type                            | Optional external flash                                                                                                                                                                                                               |  |  |
| Convenience Features                  |                                                                                                                                                                                                                                       |  |  |
| Self Timer                            | Yes                                                                                                                                                                                                                                   |  |  |
| Red-Eye Reduction                     | Yes                                                                                                                                                                                                                                   |  |  |
| Erase/Protect                         | Yes                                                                                                                                                                                                                                   |  |  |
| Media/Battery Indicator               | Yes                                                                                                                                                                                                                                   |  |  |
| Power Save Mode                       | Yes                                                                                                                                                                                                                                   |  |  |
| Video Playback Options                | Forward/Rewind (Movie)                                                                                                                                                                                                                |  |  |
| Multiple Language Display             | Yes                                                                                                                                                                                                                                   |  |  |
| Advanced Features                     |                                                                                                                                                                                                                                       |  |  |
| Face Detection                        | On, Off, Face Registration, Face Selection; maximum eight faces detected                                                                                                                                                              |  |  |
| Smile Shutter™ technology             | Smile shutter (selectable from 3 steps)                                                                                                                                                                                               |  |  |
| Image Stabilization                   | Lens-based (where applicable)                                                                                                                                                                                                         |  |  |
| Intelligent Auto                      | Yes                                                                                                                                                                                                                                   |  |  |
| Superior Auto                         | Yes                                                                                                                                                                                                                                   |  |  |
| Tracking Focus                        | Yes                                                                                                                                                                                                                                   |  |  |
| Anti Motion Blur                      | Yes                                                                                                                                                                                                                                   |  |  |
| Auto High Dynamic Range               | Yes, (Auto Exposure Difference, Exposure difference Level (1-6 EV at 1.0 EV step), off)                                                                                                                                               |  |  |
| Priority Setting (for Face Detection) | Yes (eight faces max)                                                                                                                                                                                                                 |  |  |
| Sweep Panorama                        | Horizontal (Wide/Standard), Vertical (Wide/Standard)                                                                                                                                                                                  |  |  |
| Interface                             |                                                                                                                                                                                                                                       |  |  |
| Headphone Jack                        | Yes                                                                                                                                                                                                                                   |  |  |
| Microphone Input                      | Yes                                                                                                                                                                                                                                   |  |  |
| 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)                                                                                                                                                                                |  |  |

Yes via optional AC-PW20AM (sold separately)



| HD Output                        | HDMI® Type D micro connector                                                                                                                                                                                                                                                                                                                             |  |  |  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Memory Card Slot                 | Memory Stick PRO Duo, Memory Stick PRO-HG Duo, Memory Stick XC-HG Duo, SD<br>memory card, SDHC memory card (UHS-I compliant), SDXC memory card (UHS-I<br>compliant)                                                                                                                                                                                      |  |  |  |
| NFC                              | Yes (NFC Forum Type 3 Tag compatible, One-touch remote, One-touch sharing)                                                                                                                                                                                                                                                                               |  |  |  |
| PhotoTV HD                       | Yes, with BRAVIA Sync enabled HDTV and HDMI $^{\scriptscriptstyle (\! \! S\!)}$ cable                                                                                                                                                                                                                                                                    |  |  |  |
| Tripod Mount                     | Yes, 1/4" (20 thread count)                                                                                                                                                                                                                                                                                                                              |  |  |  |
| USB Port(s)                      | USB 2.0 Hi-speed (mass-storage, MTP)                                                                                                                                                                                                                                                                                                                     |  |  |  |
| Weights and Measurements         |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
| Dimensions (Approx.)             | Approx. 5 × 3-3/4 × 1-15/16" (126.9 x 94.4 x 48.2 mm) (W/H/D) excluding protrusions                                                                                                                                                                                                                                                                      |  |  |  |
| Weight (Approx.)                 | With battery and Memory Stick PRO Duo Approx. 1 lb. 0.4 oz. (465 g)                                                                                                                                                                                                                                                                                      |  |  |  |
| Weight(Approx) (Main unit only)  | Approx. 14.4 oz. (407 g)                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| Power                            |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
| Battery Type                     | InfoLITHIUM® NP-FW50 (7.2V)                                                                                                                                                                                                                                                                                                                              |  |  |  |
| Battery Capacity                 | 1080 mAh                                                                                                                                                                                                                                                                                                                                                 |  |  |  |
| Number of Still Images           | Approx. 340 images with LCD monitor (CIPA standard)                                                                                                                                                                                                                                                                                                      |  |  |  |
| Power Requirements               | One rechargeable battery pack (NP-FW50)                                                                                                                                                                                                                                                                                                                  |  |  |  |
| Software                         |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
| Supplied Software                | Supplied Software: PlayMemories Home, Image Data Converter Version 4                                                                                                                                                                                                                                                                                     |  |  |  |
|                                  | Image Data Converter 4.0:<br>Microsoft Windows® Vista® SP2, Windows® 7 SP1, Windows® 8 (Pentium 4 or faster)<br>Mac OS X (10.6-10.8) (Intel Core Solo/Core Duo/Core 2 Duo or faster)                                                                                                                                                                     |  |  |  |
| Operating System Compatibility   | PlayMemories Home:<br>Microsoft Windows® Vista® SP2, Windows® 7 SP1, Windows® 8 (Pentium III 800 MHz or<br>faster; for playing/editing HD movies: Intel Core Duo 1.66 GHz or faster/Intel Core 2<br>Duo 1.66 GHz or faster, Intel Core 2 Duo 2.26 GHz or faster (AVC HD (FX/FH))<br>Mac OS X (10.6-10.8) (Intel Core Solo/Core Duo/Core 2 Duo or faster) |  |  |  |
| Service and Warranty Information |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
| Limited Warranty Term            | 1 Year Parts Labor                                                                                                                                                                                                                                                                                                                                       |  |  |  |
| Accessories                      |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
| Supplied Accessories             | Lens cap<br>Rechargeable battery (NP-FW50)<br>AC adaptor (AC-UB10)<br>Shoulder strap<br>Body cap<br>Micro USB cable                                                                                                                                                                                                                                      |  |  |  |
|                                  |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |

## References

| AC-PW20  | LA-EA4     | SAL35F14G  | SEL30M35   | CLM-V55    |
|----------|------------|------------|------------|------------|
| ADP-MAA  | LCS-BP3    | SAL500F40G | SEL35F18   | ECM-CG50   |
| ALC-B1EM | LCS-ELCA/B | SAL50F14Z  | SEL50F18/S | ECM-XYST1M |
| BC-QM1   | LCS-SC21   | SAL70200G2 | SEL70200G  | FA-MA1AM   |
| BC-TRW   | LCS-SL20/B | SAL70300G  | SELP18105G | GP-VPT1    |

#### Weights & Measurements (PAL)

Model Dimensions:Approx. 5 × 3-3/4 × 1-15/16" (126.9 x 94.4 x 48.2 mm) (W/H/D) excluding protrusionsModel Weight:With battery and Memory Stick PRO Duo Approx. 1 lb. 0.4 oz. (465 g)

## Weights & Measurements (SAP)



Package Dimensions: MISSING x MISSING x MISSING

## **Footnotes**

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

10. Files compatible with iMovie® `09 or later on Mac.

11. Requires a valid Sony Entertainment Network account. Some apps require a fee.

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