

The rugged Sony® α850 DSLR features a 35mm full frame 24.6 megapixel Exmor™ CMOS image sensor and SteadyShot INSIDE™ body-integrated image stabilization for a full frame DSLR. In addition, Dual BIONZ™ imaging processors allow continuous shooting up to 3 fps with superb image quality and ultra-low noise.

- **35mm full frame 24.6MP Exmor™ CMOS image sensor**
The A850 features a 35mm full frame Exmor™ CMOS image sensor that is approximately 2.35x larger than the APS-C sized sensors found in many DSLR cameras. The result is a larger capture area, improved wide angle performance, and tighter depth of field control. In addition, its 24.6MP resolution maximizes the resolving power of your existing lenses and delivers sharper, higher contrast photos.
- **SteadyShot INSIDE™ in-camera image stabilization:**
Building on years of expertise, Sony has developed the world's first body-integrated image stabilization solution for a full frame DSLR¹. The SteadyShot INSIDE™ in-camera image stabilizer actually shifts the image sensor to compensate for camera shake without sacrificing image quality. The compensation effect is equal to as many as four shutter speed steps, giving you more creative freedom when shooting in low light. And, because it is integrated into the camera body, SteadyShot INSIDE technology works with all compatible α system lenses.
- **Dual BIONZ™ processors for up to fast 3fps performance:**
The α harnesses the power of Dual BIONZ™ image processing engines to deliver true-to-life images with ultra-low noise and continuous shooting at up to 3 fps.
- **Ultra bright, 98% coverage glass pentaprism viewfinder**
A large, ultra bright glass pentaprism viewfinder provides you with amazing clarity and high optical performance for tighter focus control. In addition, it offers viewfinder magnification of 0.74x, allowing you to see an image nearer to its actual size, as well as 98% field coverage for detailed framing work.
- **Intelligent Preview Function**
The Intelligent Preview function allows you to see the effects of manual adjustments to exposure value, shutter speed, aperture, Dynamic Range Optimizer and White Balance before you take the shot, so you can determine the optimum settings before you take the shot, instead of losing time to trial-and-error.
- **3.0" Xtra Fine™ LCD⁴ (921K pixels)**
Review your images in stunning detail on the 3.0" Xtra Fine™ LCD⁴ display (921k pixels). With photo-quality resolution of 270ppi (pixels per inch), you can identify any necessary focus or exposure corrections at the time of capture, rather than discovering them when you transfer your images to your PC.
- **PhotoTV HD viewing w/ HDMI™ output**
The α850 provides direct HDMI™ output to your BRAVIA® HDTV and other compatible HDTV screens, so you can view and share photos in breathtaking clarity and detail. Additionally, PhotoTV HD capable BRAVIA® HDTVs will automatically optimize display settings, such as sharpness, gradation, and color to display your images in a way that more closely matches the natural look of printed photographs.
- **Precise and fast 9-point AF system w/ 10 point assist**
A high-performance autofocus system uses 9 focus points (center dual-cross type) and 10 assist points to deliver fast and precise focusing.
- **Rugged magnesium alloy shell**
The body of the A900 is entirely covered in a die-cast magnesium alloy shell, providing a rugged feel and surprisingly lightweight.
- **Moisture/dust-resistant design**
Sealed viewfinder optics and rubber gasket surrounds on all buttons, dials, and switches help resist the entry of dust and moisture into the camera, and allow for safe use in a wide range of environments.
- **Anti-Dust Technology**
Changing lenses in a DSLR can allow dust to enter the camera -- so to help keep the CMOS imager cleaner for better pictures, the Sony® α: (alpha) DSLR-A900 utilizes both static-free anti-dust coating on the imager's filter and anti-dust vibration that automatically shakes the sensor to dislodge dust each time the camera is shut off.
- **Battery Performance**
A supplied InfolITHIUM® lithium-ion battery provides long-lasting performance, allowing you to capture approximately 880 images on a single charge⁷.
- **Durable Shutter Design**
The shutter mechanism in the A900 is designed to achieve shutter speeds up to 1/8000 seconds and proven for 100,000 cycle operation.
- **Dual Card Slots**
The A900 features a dual card slots and accepts both CompactFlash® and Memory Stick Duo™ Media (sold separately).
- **40-Segment Multi-Pattern Metering**
A 40-segment multi-pattern metering system provides superior exposure control accuracy in a wide range of lighting conditions.
- **Dynamic Range Optimizer**
To recover details in dark or bright areas of the image, the A900 provides multiple levels of Dynamic Range Optimization: Standard mode, to improve shadow detail using standard gamma curves; Advanced Auto mode, allowing you to select any of 5 DRO correction levels, or DRO Advanced Bracketing, which automatically takes three shots at different DRO levels with a single shutter press.
- **On-Chip Column A/D Conversion**
Analog-to-digital signal conversion is performed by the full frame Exmor™ CMOS image sensor.
- **Dual Noise Reduction Processing**
In addition to digitizing analog signals, the full frame Exmor™ CMOS image sensor also performs both analog and digital noise reduction. This on-chip dual noise reduction process aids in the high speed transfer of noiseless digital signals.
- **F2.8 Sensor**
The autofocus system in the α850 features a highly accurate F2.8 sensor for improved focus precision when using lenses faster than F2.8.
- **Updated Image Data Converter SR3**
Updated Image Data Converter SR3 software improves your workflow with faster RAW file processing and improved image correction.

ADDITIONAL FEATURES

- APS-C Size Capturing
- Viewfinder magnification of 0.74x
- Eyepiece Shutter
- AF Micro Adjustment
- Optional Focusing Screens (sold separately)
- Mirror Lockup Mode
- 2EV Exposure Bracketing (3 exposures)
- Rubberized Grip
- Image Data Lightbox software
- Remote Camera Control
- Picture Motion Browser (PMB) Software
- Convenient Button Placement



DSLR-A850

Digital Single Lens Reflex Camera

Specifications

General

Camera Type: Sony α Digital 35mm SLR full-frame camera w/ pentaprism viewfinder and interchangeable lenses

Color Filter System: RGB primary color filters

Effective Picture Resolution: Approx. 24.6 megapixels

Imaging Sensor: 35mm Full-frame Exmor™ CMOS sensor

Lens Mount Type: Sony α lens, Minolta and Konica Minolta AF lens

Pixel Gross: Approx. 25.7 megapixels

Processor: Dual BIONZ™ image processors

Recording Media Type: Memory Stick PRO Duo™ media / Compact Flash Type I, Type II (Microdrive),UDMA(Mode5) compliant

Recording Mode: cRAW+JPEG(Fine), RAW+JPEG (Fine), cRAW(compressed), RAW, JPEG Extra fine, JPEG Fine, JPEG Standard

Still Actual 16:9: L size: 6048 x 3408 (21M)
M size: 4400 x 2472 (11M)
S size: 3024 x 1704 (5.2M)

Still Actual 3:2: L size: 6048 x 4032 (24.6M)
M size: 4400 x 2936 (13M)
S size: 3024 x 2016 (6.1M)

Convenience

Self Timer: Yes (10 seconds, 2 seconds with mirror-up function)

Burst Mode: 3 fps max

Anti-dust function: Charge protection coating on low pass filter and image-sensor shift mechanism

BRAVIA® Sync™ : Yes, via HDMI with compatible BRAVIA HDTV

Creative Style: Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night, Autumn, B/W, Sepia

Scene Mode(s): Portrait, Landscape, Sunset, Night, Autumn, B/W, Sepia

User Interface: Easy-to-read Graphic Display and on-screen Help Guide
User-friendly function menu

Inputs and Outputs

USB Port(s): Yes, Supports USB 2.0 Hi-speed

HD Output: Yes (w/ optional HDMI cable)

Memory Card Slot: Dual memory card slot: Memory Stick PRO Duo™ media
Compact Flash memory card

Tripod Mount: Yes, 1/4"-20

LCD Display

Brightness Control: ± 5 steps manual

Coverage: 100% (Playback)

Type: 3" TFT Xtra Fine LCD (921,600 pixels)

Flash

Flash Compensation: ± 3 EV (in 1/3EV, 1/2EV steps selectable)

Flash Metering System: ADI flash (automatic change for Pre-flash TTL)

Modes: Auto, Fill-flash, Rear sync, Wireless (with Flash HVL-F58AM, HVL-F42AM, HVL-F56AM, F36AM)

Type: No pop-up flash. Hot shoe compatible with Sony α system flash.

Viewfinder

Diopter Adjustment: -1m -1

Eye relief: Approx. 20 mm from the eyepiece

Field of View: 98%

Focusing Screen: Spherical Acute Matte Screen

Magnification: 0.74x (with 50mm lens at infinity)

Type: Fixed eye-level system with optical glass pentaprism

Control

AF modes: Single-shot AF, Automatic AF, Continuous AF, (AF/MF selectable)

Drive Mode: Single-shot, Cont., Self-timer, Bracket, single/cont./WB/DRO adv., Mirror Lock-up, Remote Commander

Exposure Compensation: ± 3.0 EV, 1/3EV, 1/2EV steps selectable

Exposure settings: Auto, Program Auto (A) (with Program Shift), Shutter priority (S), Aperture priority (A), Manual (M)

Focus Area: Wide (Auto, up to 9 areas), Spot, Local (9 local areas selectable)

Focus Points: 9 points + 10 assist focus points (local areas, selection with the multi-selector)

Focus Sensitivity: 0 EV to +18 EV (at ISO100 equivalent)

Focus System: TTL phase detection system

ISO: Auto, selectable 100 to 6400 (in 1/3 EV steps)

Metering: TTL metering w/ 40-segment honeycomb-pattern SPC

Metering Modes: Multi-segment, Center-weighted, Spot, Auto Exposure Lock (AEL button)

Metering Sensitivity: 0 EV to 20 EV (+2 EV to +20EV with Spot metering), (at ISO 100 equivalent with F1.4 lens)

White Balance: Auto, Daylight, Shade, Cloudy, Tungsten, Fluorescent, Flash, Custom

Power

Battery Type: NP-FM500H Lithium-ion rechargeable battery

Battery Capacity: 7.2V, CIPA standard: approx. 880 pictures³

Number of Shots: Approx. 880 shots (CIPA standard)

Software

Supplied Software: Image Data Converter SR3.1 (Windows & Macintosh)
Image Data Lightbox SR2.1 (Windows & Macintosh)
Remote Camera Control 2.0 (Windows & Macintosh)
PMB -P icture Motion Browser 4.2.13 (Windows only)

Operating System Compatibility: Windows 2000 Professional SP4
Windows XP* SP3
Windows Vista** SP1
Mac OS X (v10.1.3-v10.5)

Processor

BIONZ™ Engine: Dual BIONZ™ processors

Operating Conditions

Operating Temperature: 32 - 104 degrees F (0 - 40 degrees C)

Dimensions

Weight: Approx. 1lb-14oz (850g) without battery, memory card, accessories

Measurements: (WHD) 6-1/8" x 4-5/8" x 3-1/4" (156.3 x 116.9 x 81.9mm) (excl. protrusions)

Service and Warranty Information

Limited Warranty Term: 1 Year Parts & Labor

Supplied Accessories

M-series Lithium-Ion Battery (NP-FM500H)
Battery Charger w/cord (BC-VM10)
Video Cable
USB Cable
Shoulder strap with eyepiece cap and Remote Commander clip
Body cap
Accessory shoe cap
Software/USB Driver CD-ROM
NOTE: No Memory media is included.
NOTE: No lens included

Optional Accessories

HVL-F20AM External Flash
NP-FH50AM Rechargeable Battery

UPC Code: 027242772410

1. World's highest as of September 2008
2. Viewable area, measured diagonally.
3. HD viewing requires HDMI™ cable and HDMI™ compatible HDTV (both sold separately). PhotoTV HD viewing requires PhotoTV HD capable Sony® BRAVIA® HDTV (sold separately).
4. Requires Microsoft® Windows® 2000 Professional SP4, Windows XP SP2, or Windows Vista®. Not supported by Mac OS.
5. When a DT lens is mounted, images are automatically cropped to the APS-C size, regardless of the APS-C size capture setting. Using a DT lens is not guaranteed because the corners of the field are darkened and the camera does not meet the primary AE performance standard.
6. Performance not guaranteed with lenses produced by other manufacturers.
7. Under average conditions: when fully charged, actual results may vary based on camera settings and conditions of use.

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