

## SLT-A99V

Sony® SLT-A99V Digital SLR

Discover truly remarkable clarity with Sony's innovative new full frame DSLR that doubles as a world-class filmmaking camera. With the world's first Dual AF system<sup>10</sup> and Translucent Mirror technology, you are no longer bound by limitations of the traditional DSLR. This massive leap forward delivers astounding 24MP resolution plus uncompressed, Full HD video recording—all wrapped in an ultra-light, magnesium alloy body.



### **24.3 MP 35 mm Full Frame Sensor**

A whole new world of high-quality images are realized through the 24.3 MP effective 35 mm full-frame sensor, a normal sensor range of ISO 100 - 32000, and a sophisticated balance of high resolving power, gradation and low noise.

### **Uncompressed HDMI Output**

Easily record Full 1080 HD uncompressed clean-screen video files to external recording devices via an HDMI connection in 24p, 60p and 60i frame-rates.

### **Multi-frame NR**

Experience incredible low-light shooting without a flash. The camera captures six images in a fraction of a second. Combining the data from all six, it creates a single image with a reduction in noise equivalent to two additional steps of ISO sensitivity. Sensitivity selectable up to ISO 25600. (Recommended for still subjects.)

### **World's first Dual AF system<sup>10</sup>**

The 19-point AF system with 11 cross sensors is complemented by a multi-point focal plane phase-detection AF sensor with 102 AF points that overlays the image sensor. Taking advantage of Translucent Mirror Technology that simultaneously directs light to the image sensor and AF sensor at all times.

### **New AF-D Mode<sup>4</sup>**

This highly advanced Continuous AF mode uses 19 AF points with reliable depth-direction focusing performance to steadfastly capture subjects and is strongly assisted by the 102-point multi-point focal-plane phase-detection AF sensor. It continues to accurately focus on the subject whether the subject is moving in depth or plane direction<sup>4</sup>.

### **AF Range Control**

Users can set the range of distance from the camera in which subjects can be focused on the AF system. By limiting the AF range, users can prevent unwanted focusing on foreground and background objects. This intelligent function enables reliable performance when photographing sports through wire mesh fences, for example.

### **Fast continuous shooting speeds**

Highly responsive continuous shooting at approximately 6 frames per second (fps) is made possible by Translucent Mirror Technology and an enhanced Tracking Focus function offering more advanced acquisition and tracking performance. The Tele Zoom High Speed shooting mode shoots up to 8 fps at 10 MP while maintaining continuous auto focus and auto exposure.

### **Newly designed three-way tiltable LCD**

The SLT-A99V is the first in the Alpha series to feature WhiteMagic™ technology, which nearly doubles the visibility of the 921k-dot Xtra Fine LCD™ monitor in sunny outdoor conditions. The three-way tilt-able mechanism, highly acclaimed on the A77, is further enhanced for even greater operational ease.

### **XGA OLED Viewfinder**

There's never been anything quite like the Tru-Finder™ OLED electronic viewfinder. For size, speed and brightness even after sunset, this is a gem. It begins with 2359K dots for amazing resolution and high contrast ratio for incredible depth. OLED reduces motion blur to a bare minimum. You can also see the results of camera adjustments in real time with superb color and detail.

### **World's lightest Full-frame Sensor Camera<sup>10</sup>**

The SLT-A99V is the world's lightest<sup>10</sup> 35 mm full-frame interchangeable-lens digital camera. It weighs only 733 grams (body only), thanks to features like Translucent Mirror Technology and high-rigidity magnesium alloy panels. Users will enjoy agile and flexible shooting despite the full-frame specifications.

### **Newly developed Quick Navi Pro**

For heightened comfort and more intuitive operation, the SLT-A99V features an enhanced version of Quick Navi, which was highly acclaimed in the A900 and A700. Called Quick Navi Pro, this new feature allows users to immediately access all camera parameter settings. Photographers can therefore quickly change settings with just the right hand while shooting photos.

### **Dual Slot and Media Control Function**

The SLT-A99V employs dual media slots. One of the slots supports SD Cards and the other supports both SD Cards and Memory Stick® media. This dual slot system allows for simultaneous recording for backup purposes (with recordings sorted RAW/JPEG file type or still/movie data) as well as copying between media. Moreover it allows movie recording to two media cards simultaneously – a world's first (as of September 12, 2012)

### **Translucent Mirror Technology**

Sony's proprietary Translucent Mirror Technology simultaneously directs light to the image sensor and AF sensor at all times to realize Full-time Continuous AF that keeps the subject in sharp focus and even during continuous shooting and movie shooting. It also allows the high-precision electronic viewfinder to accurately display the results of camera setting adjustments in real time so the photographer can make sure the results match his or her creative intentions.

### **Highly rigid body with magnesium alloy outer panels**

The highly robust and durable body meets the heavy-duty needs of advanced amateurs. Both the main outer body panels and interior chassis are constructed of lightweight yet rigid magnesium alloy. Moreover, the grip and front cover are structurally unified to achieve extremely high body rigidity.

### **Dust and moisture protection**

Outer body and moisture countermeasures include the sealing and treatment of major operational buttons/dials and a convex/concave mating structure that tightly interlocks components. Controls also feature a durable structure that withstands the touch usage of advanced amateurs.

### **Approximate 200,000 shutter release durability**

The newly developed, highly durable and reliable shutter unit has been proven to endure approximately 200,000 shutter releases. This durability ensures long-lasting shooting performance that takes into consideration the large number of photos shot by advanced amateurs.

### **Meticulously designed body compliments advanced users**

While inheriting the popular design concept of the A77, the SLT-A99V enables comfortable photo shooting through meticulously designed features including improved grip thickness that enhances grasping ease, switch and button shapes that are differentiated for easier operation while keeping your eye on the viewfinder, an exposure mode dial lock that prevents unintended turning of the mode dial, etc.

### **Vertical Grip Capable**

The optional VG-C99AM vertical grip designed exclusively for the SLT-A99V can house two batteries, bringing the total number of batteries (including the one in the camera) to three for significantly more hours of shooting (batteries sold separately).

### **PC Remote Camera Control**

Enables users to remotely change various camera settings, switch still/ movie shooting on or off, and automatically transfer still images to enhance the efficiency of the studio photo shooting workflow.

### **New Multi-Interface Shoe**

Unlike conventional cameras, the SLT-A99V also features a newly developed Multi-Interface Shoe that dramatically expands compatibility with Handycam® accessories, thus raising the potential for photo/movie shooting (The included ADP-MAA shoe adapter maintains compatibility with conventional Alpha accessories as well).

### **New Flash/Video Light**

The new optional accessory HVL-F60M flash with video light offers high output, Sony's original Quick Shift Bounce mechanism, a new video light for movie shooting and improved operational interface.

### **New Wireless Commander Control**

The new optional accessory RMT-DSLR2 Remote Commander® for movie shooting that includes a dedicated movie record button.

### **Auto HDR built into camera**

Captures more scene dynamic range than a single exposure can handle—and more range than photo film. Combines the best highlight detail from one shot, the best mid-tones from a second and the best shadow detail from a third for one incredible shot. (Recommended for still subjects.)

### **Sweep Panorama™ Mode**

Capture expansive landscapes automatically. Press the shutter and sweep vertically or horizontally. The camera does the rest, continuously shooting images and stitching them together.

### **D-Range Optimizer**

Improves results with backlit subjects and recovers details hidden in shadows. Settings include Auto, Level with a choice of five operating levels and Off.

### **Creative Styles**

Control how the camera processes your images with 13 finishing styles: Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn leaves, Black & White, Sepia. You can even fine-tune contrast, saturation, and sharpness to your personal taste.

### **1200-zone Evaluative Metering**

Reads exposure directly from the main image sensor. Choice of Multi, Center and Spot metering accommodates a full range of shooting situations.

### **Built-in GPS**

An integrated GPS receiver records the location and time of every shot you take and lets you view your images on a map with compatible computer and Internet applications, so you can remember where you took your favorite shots.<sup>11</sup>

### **Auto Portrait Framing**

Simply photograph a person and Auto Portrait Framing will save an additional, optimally framed image in portrait or landscape orientation. Combining Face Detection and By Pixel Super Resolution technologies with rule of thirds, Auto Portrait Framing provides beautifully composed and appealingly balanced full resolution portraits.

### **Clear Image Zoom**

Utilizing Sony's exclusive By Pixel Super Resolution Technology, Clear Image Zoom increases the effective focal length of your lens up to 2x by digitally magnifying the center of your image with nearly imperceptible degradation that provides greater shooting flexibility.

### Superior Auto

Get cleaner, more dynamic pictures and fewer missed shots. Unifies and simplifies Sony intelligent technologies, the camera automatically recognizes the correct scene mode, then quickly shoots and combines up to six shots to produce images with greater clarity, optimum dynamic range using Auto HDR technology and lower image noise using three-shot layering technology.

## Specifications

### Camera

Lens Compatibility	Sony A-mount lenses, operation with Minolta/Konica Minolta lenses confirmed
Camera Type	Sony A-mount interchangeable-lens digital camera

### Imaging Sensor

Imaging Sensor	"Exmor" CMOS sensor (35.8 x 23.9mm)
Anti Dust	Charge protection coating on low-pass filter and image sensor shift mechanism
Pixel Gross	Approx. 24.7 megapixels
Effective Picture Resolution	Approx. 24.3 megapixels
Color Filter System	RGB primary color filters

### Recording

Media Type	Memory Stick PRO Duo™/Pro-HG Duo™ media; SD, SDHC and SDXC memory card
Color Space	sRGB, Adobe RGB
Still Image Mode	JPEG (Standard, Fine, Extra Fine), RAW, RAW+JPEG
Still Image Size 16:9	35mm full frame L: 6000 x 3376 (20M) M: 3936 x 2216 (8.7M) S: 2640 x 1488 (3.9M)
	APS-C L: 3936 x 2216 (8.7M) M: 2640 x 1488 (3.9M) S: 1728 x 976 (1.7M)
Still Image Size 3:2	35mm full frame L: 6000 x 4000 (24M) M: 3936 x 2624 (10M) S: 2640 x 1760 (4.6M)
	APS-C L: 3936 x 2624 (10M) M: 2640 x 1760 (4.6M) S: 1728 x 1152 (2.0M)
Panorama Still Image Size	Wide: Horizontal 12,416 x 1,856 (23M) Vertical 5,536 x 2,160 (12M)
	Standard: Horizontal 8,192 x 1,856 (15M) Vertical 3,872 x 2,160 (8.4M)
Video Format	AVCHD Ver. 2.0 (Progressive), AVCHD, MP4

Video Mode	AVCHD: PS - 1920 x 1080/60p@28Mbps FX - 1920 x 1080/60i@24Mbps FH - 1920 x 1080/60i@17Mbps FX - 1920 x 1080/24p@24Mbps FH - 1920 x 1080/24p@17Mbps  MP4: HD - 1440 x 1080/ 30p@12Mbps VGA - 640 x 480/ 30p@3Mbps
Dual Record	Simult. Rec (Still,Movie), Simult. Rec (Still/Movie), Sort (JPEG/RAW), Sort (Still/Movie), Copy
Audio Format	Dolby Digital (AC-3) / MPEG-4 AAC-LC, 2ch
Microphone/Speaker	Built-in stereo microphone or ECM-ALST1 (with supplied shoe adaptor) / ECM-CG50 / XLR-K1M (sold separately). Built-in, monaural, 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), RAW & JPEG

## Optics/Lens

Digital Zoom	Still images: 4x Movie: 4x
Smart Zoom® Technology	M: approx. 1.5x, S: approx. 2.3x

## Viewfinder

Type	1.3 cm (0.5 type) electronic viewfinder (color) (2,359k dots). Display:Graphic Display / Display All Info. / No Disp. Info. / Digital Level Gauge / Histogram.  Brightness control: Auto/Manual (3 steps between -1 and +1)  Eyepoint: Approx. 27mm from the eyepiece lens, 22mm from the eyepiece frame at -1 diopter (CIPA standard)
Diopter Adjustment	-4.0 to +3.0m <sup>-1</sup>
Field of View	100%
Magnification	Approx. 0.71 x (with 50mm lens at infinity, -1m <sup>-1</sup> )

## LCD Display

LCD Type	7.5 cm (3.0 type) TFT drive (1,228,800 dots). Focus Magnifier: (35mm full frame: 5.9x, 11.7x APS-C: 3.8x, 7.7x)
Angle Adjustment	Tilt angle: 140 degrees upward and 180 degrees downward Rotation angle: 180 degrees clockwise and 90 degrees counterclockwise
Brightness Control	Auto, Manual (5 steps between -2 to +2), Sunny Weather
Real-time image adjustment display	Yes(On/Off)
Peaking	Yes (Level setting: High/Mid/Low/Off, Color: White/Red/Yellow)
Customization	Graphic Display, Display All Info., No Disp. Info., Digital Level Gauge, Histogram, Shooting Info

## Focus Control

Focus System	TTL Phase-detection AF (CCD line sensors and Focal Plane Phase Detection sensors)
Focus Points	Detector 1: 19 points (11 points cross type), Detector 2: 102 assist points
AF Modes	Single-shot AF (AF-S), Automatic AF (AF-A), Continuous AF (AF-C), Depth Map Assist Continuous AF (AF-D) selectable
Focus Area	Wide (auto, 19 points)/Zone/Spot/Local selectable
Focus Sensitivity	EV -1 to 18 EV (at ISO100 equivalent, with F2.8 lens attached)
Focus Features	Predictive control(AF-A, AF-C), Focus Lock, Eye-start AF
AF Illuminator	Built-in, LED type (range approx. 3.3 to 23 ft (1-7m))

## Exposure System

Metering	1200-zone evaluative metering
Metering Modes	Multi-segment, Center-weighted, Spot

Metering Sensitivity	-2 to 17 EV (at ISO 100 equivalent with f/1.4 lens)
Exposure Compensation	+/-5.0 EV (1/3EV, 1/2EV steps selectable)
Exposure Settings	AUTO (iAUTO, Superior Auto), Programmed AE (P), Aperture priority (A), Shutter-speed priority (S), Manual (M), Scene Selection, Sweep Panorama, Tele-zoom Continuous Advance Priority AE, Movie (Programmed AE (P), Aperture priority (A) / Shutter-speed priority (S) / Manual (M) selectable in manual focus mode)
Scene Mode(s)	Portrait, Landscape, Macro, Sports action, Sunset, Night portrait, Night View, Handheld Twilight
Auto Exposure Lock	Yes with AE lock button (AE also locked when focus is locked in a multi-segment metering mode).
Color Temperature	Manual (5 steps)
Creative Style	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn leaves, Black & White, Sepia (Contrast (-3 to +3 steps), Saturation (-3 to +3 steps), Sharpness (-3 to +3 steps))
Exposure Bracketing	Bracket: Cont./Bracket: Single, 3/5 frames (2.0 EV, 3.0 EV : only 3 frames) selectable
ISO	Still images: Auto (ISO 100-6400, selectable lower limit and upper limit), ISO 100-25600; Movies: ISO 100-6400 equivalent; Auto (ISO 100-3200 equivalent)
Noise Reduction	Long Exposure NR: (On/Off, available at shutter speeds longer than 1 second) High ISO NR: (High/Normal/Low/Off)
White Balance Mode	Auto, Daylight, Shade, Cloudy, Incandescent, Fluorescent (Warm White, Cool White, Day White, Daylight), Flash, Color Temperature (2500 to 9900K) & color filter (G7 to M7, A7 to B7) / Custom (3)

## Drive System

Burst Buffer	w/ SD (UHS-I compliant) memory card: Cont. shooting Hi: Extra FINE 15, FINE 24, STD 29, RAW 15, RAW+JPEG 12 Tele-zoom Cont. Advance Priority AE (8 fps): Extra FINE 20, FINE 28, STD 31, RAW 19, RAW+JPEG 18 Tele-zoom Continuous Advance Priority AE (10 fps): Extra FINE 20, FINE 26, STD 28  w/ Memory Stick PRO-HG Duo: Continuous shooting Hi: Extra FINE 14, FINE 18, STD 20, RAW 13, RAW+JPEG 11 Tele-zoom Continuous Advance Priority AE (8 fps): Extra FINE 17, FINE 20, STD 24, RAW 17, RAW+JPEG 16 Tele-zoom Continuous Advance Priority AE (10 fps): Extra FINE 18, FINE 22, STD 24
Continuous Shooting Speed	Tele-zoom Continuous Advance Priority AE: approx. 10/8 fps selectable; Continuous (Hi:35mm full frame: approx. 6 fps APS-C: approx. 7 fps; Lo: 35mm full frame: approx. 2.5 fps APS-C: approx. 2.5 fps)
Drive Mode	Single-shot, Continuous shooting (Hi/Lo selectable), Self-timer (10/2 sec delay selectable), Bracket (Continuous/Single/WB/DRO), Remote commander (RMT-DSLR2)
Flash Sync Speed	1/250 sec.
Self-timer	2-sec. or 10-sec. delay
Shutter Speeds	Still images: 1/8000 to 30 sec, Bulb Movies: 1/8000 to 1/4 (1/3 step), up to 1/60 in AUTO mode (up to 1/30 in Auto Slow Shutter mode)
Shutter Type	Electronically controlled, vertical-traverse, focal-plane type

## Flash

Flash Compensation	+/- 3.0 EV (switchable between 1/3 and 1/2 EV steps)
Flash Bracketing	0.3/0.5/0.7/2.0/3.0 EV steps, 3/5 frames (2.0/3.0 EV : only 3 frames) selectable
Flash Metering System	ADI; Pre-flash TTL
Flash Modes	Auto, Fill-flash, Slow Sync., Rear Sync., Hi-speed sync., Red-eye reduction (on/off selectable), Wireless, Off

## Convenience Features

Still Image Playback Options	Single, 4/9-frame index view, Enlarged display mode, Auto Review (10/5/2 sec, off), Image orientation (On/Off selectable), Slideshow, Panorama scrolling, Folder selection, Delete, Protect
Video Playback Options	Forward/Rewind (Movie)

## Advanced Features

Embedded GPS	Yes
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Face Detection	On/On (Regist. Faces)/Off (face registration, face selection). Max. 8 faces detectable.
Smile Shutter™ technology	Yes
Tracking Focus	Yes
Audio Level Display	Yes
Image Stabilization	SteadyShot INSIDE in-body image stabilization. Compensation effect: Equivalent to approx. 2.5 to 4.5 steps in shutter speeds *Varies according to shooting conditions and lens used. Type: For still images: Image Sensor-Shift mechanism, For movies: Electronic

## Interface

Headphone Jack	Yes (3.5 mm Stereo minijack)
Microphone Input	Yes (3.5 mm Stereo minijack)
Accessory Shoe	Yes (Multi Interface), Alpha Auto-lock with supplied ADP-MAA adapter
DC IN	Yes
HD Output	HDMI mini connector (Type-C) BRAVIA Sync (link menu) PhotoTV HD
USB Port(s)	MiniB, Hi-speed USB (USB2.0) (Mass-storage (Multi LUN), MTP, PC remote

## Weights and Measurements

Dimensions (Approx.)	Approx. 5 7/8 X 4 1/2 X 3 1/8" (147 x 111.2 x 78.4mm) (WxHxD)
Weight (Approx.)	Approx. 1 lb 9.9 oz (733 g) (body only) Approx. 1 lb 12.7 oz (812 g) (with battery and memory stick)

## Power

Battery Type	Infolithium® NP-FM500H (7.2V)
Number of Still Images	Still: Approx. 410 shots with viewfinder, 500 shots with LCD monitor (CIPA measurement) Movies: Approx. 155 min with viewfinder, approx. 155 min with LCD monitor
Power Consumption (in View Finder Operation)	approx. 4.2W (still images, with SAL2470Z lens)

## Software

Supplied Software	Image Data Converter SR (Windows & Macintosh) Image Data Lightbox SR (Windows & Macintosh) Remote Camera Control (Windows & Macintosh) Picture Motion Browser (Windows only)
Operating System Compatibility	Windows XP 7 SP3, Windows Vista 8 SP2, Windows 7 SP1, Mac OSX (v10.3-v10.8)

## Accessories

Optional Accessories	Sony System Flash compatible with Multi Interface Shoe, attach the shoe adaptor for flash compatible with Auto-lock accessory shoe. *VG-C99AM vertical grip. AC Adaptor AC-PW10AM (sold separately).
Supplied Accessories	Battery Charger Rechargeable Battery (NP-FM500H) Shoe Adaptor Shoulder Strap Body Cap Accessory Shoe Cap Eyepiece Cup USB Cable CD-ROM ADP-AMA Multi-interface to Auto Lock Accessory

1. Records in up to 29 minutes segments.  
2. In meters, ISO 100  
3. Requires 3D HDTV, HDMI cable (at least 10.2 Gbps) and active 3D glasses sold sep.  
4. Note that of the time of launch the following lenses support AF-D: SAL2470Z, SAL2875, SAL50F14, SAL300F28GII, SAL70400G, SAL50050F4G.  
5. Compatible with BRAVIA® Sync or Theatre Sync™ HDTVs connected via HDMI®.  
6. Actual performance varies based on settings, environmental conditions, and usage. Battery capacity decreases over time and use.