

ILCE-6400M

α6400 E-mount camera with APS-C Sensor
Compact, lightweight, ready for anything

The α6400 packs extraordinary performance into a light, compact body. It's ready to track fast-moving action, capture breathtaking scenery or take easy self-portraits, always delivering beautiful, high-resolution still images and 4K HDR movies.

- Phenomenal 0.02 sec. AF performance including newly developed Real-time Tracking
- Exmor™CMOS sensor and BIONZ X™for superb image quality
- 180° tiltable LCD touch screen for selfies and vlogging



Technical Summary

Icon Description

- Fast 0.02 sec. AF, with 425 phase-detection AF points
- Real-time Tracking and Real-time Eye AF, to detect and hold onto moving subjects
- 24.2-megapixel Exmor CMOS sensor with outstanding light sensitivity
- High-resolution 4K movie recording to support serious video production
- 180° tiltable LCD touch screen for easier self-portraits and high- and low-angle shots

Key Technical Specification

- **Lens Compatibility**
Sony E-mount lenses
- **Sensor Type**
APS-C type (23.5 x 15.6mm), Exmor CMOS sensor
- **Number Of Pixels (Effective)**
Approx. 24.2 megapixels
- **ISO Sensitivity (Recommended Exposure Index)**
Still images: ISO 100-32000 (ISO numbers up to ISO 102 400 can be set as expanded ISO range.), AUTO (ISO 100-6400, selectable lower limit and upper limit), Movies: ISO 100-32000 equivalent, AUTO (ISO 100-6400, selectable lower limit and upper limit)
- **Battery Life (Still Images)**
Approx. 360 shots (Viewfinder) / Approx. 410 shots (LCD monitor) (CIPA standard)
- **Viewfinder Type**
1.0 cm (0.39 type) electronic viewfinder (color)
- **Monitor Type**
7.5cm (3.0-type) wide type TFT

What's in the box?

- Power cord
- Rechargeable Battery NP-FW50
- SEL18135
- Lens cap
- Lens hood
- Lens rear cap
- AC Adaptor:AC-UUE12
- Shoulder strap
- Body cap
- Body Cap
- Accessory shoe cap
- Eyepiece cup
- Micro USB cable

Specifications

Lens		Image Sensor	
Lens Compatibility	Sony E-mount lenses	Aspect Ratio	3:2
Lens Mount	E-mount	Number Of Pixels (Effective)	Approx. 24.2 megapixels
		Number of Pixels (total)	Approx. 25.0 megapixels
		Sensor Type	APS-C type (23.5 x 15.6mm), Exmor CMOS sensor
		Anti-Dust System	Charge protection coating on optical filter and ultrasonic, vibration mechanism
Recording (still images)		Recording (movie)	
Recording Format	JPEG (DCF Ver. 2.0, Exif Ver.2.31, MPF Baseline compliant), RAW (Sony ARW 2.3 format)	Recording Format	XAVC S, AVCHD format Ver. 2.0 compliant
Image Size (pixels) [3:2]	L: 6000 x 4000 (24M), M: 4240 x 2832 (12M), S: 3008 x 2000 (6.0M)	Video Compression	XAVC S: MPEG-4 AVC/H.264, AVCHD: MPEG-4 AVC/H.264
Image Size (pixels) [16:9]	L: 6000 x 3376 (20M), M: 4240 x 2400 (10M), S: 3008 x 1688 (5.1M)	Audio Recording Format	XAVC S: LPCM 2ch, AVCHD: Dolby Digital (AC-3) 2ch, Dolby Digital Stereo Creator
IMAGE SIZE (PIXELS) [1:1]	L: 4000x4000 (16M), M: 2832x2832 (8.0M), S: 2000x2000 (4.0M)	Colour Space	sYCC standard (x.v.Color when connected via HDMI cable) compatible with TRILUMINOS Color
Image Size (pixels) [Sweep Panorama]	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)	Picture Effect	Posterization (Color), Posterization (B/W), Pop Color, Retro Photo, Partial Color (R/G/B/Y), High Contrast Monochrome, Toy Camera (Normal/Cool/Warm/Green/Magenta), Soft High-key, Soft Focus (High/Mid/Low), HDR Painting (High/Mid/Low), Rich-tone Monochrome, Miniature (Auto/Top/Middle/Bottom/Right/Middle (V)/Left), Watercolor, Illustration (High/Mid/Low)
Image Quality Modes	RAW, RAW & JPEG (Extra fine, Fine, Standard), JPEG (Extra fine, Fine, Standard)	Creative Style	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn leaves, Black & White, Sepia, Style Box (1-6), (Contrast (-3 to +3 steps), Saturation (-3 to +3 steps), Sharpness (-3 to +3 steps))
Picture Effect	13 types: Posterization (Color), Posterization (B/W), Pop Color, Retro Photo, Partial Color (R/G/B/Y), High Contrast Monochrome, Toy Camera (Normal/Cool/Warm/Green/Magenta), Soft High-key, Soft Focus (High/Mid/Low), HDR Painting (High/Mid/Low), Rich-tone Monochrome, Miniature (Auto/Top/Middle/Bottom/Right/Middle (V)/Left), Watercolor, Illustration (High/Mid/Low)	Picture Profile	Yes (Off / PP1-PP10) Parameters: Black level, Gamma (Movie, Still, Cine1-4, ITU709, ITU709 [800%], S-Log2, S-Log3, HLG, HLG1-3), Black Gamma, Knee, Color Mode, Saturation, Color Phase, Color Depth, Detail, Copy, Reset
Creative Style	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn leaves, Black & White, Sepia, Style Box (1-6), (Contrast (-3 to +3 steps), Saturation (-3 to +3 steps), Sharpness (-3 to +3 steps))	Image Size (Pixels), NTSC	XAVC S 4K: 3840 x 2160 (30p, 100M), 3840 x 2160 (24p, 100M), 3840 x 2160 (30p, 60M), 3840 x 2160 (24p, 60M), XAVC S HD: 1920 x 1080 (120p, 100M), 1920 x 1080 (120p, 60M), 1920 x 1080 (60p, 50M), 1920 x 1080 (30p, 50M), 1920 x 1080 (24p, 50M), 1920 x 1080 (60p, 25M), 1920 x 1080 (30p, 16M), AVCHD: 1920 x 1080 (60i, 24M, FX), 1920 x 1080 (60i, 17M, FH)
Picture Profile	Yes (Off / PP1-PP10) Parameters: Black level, Gamma (Movie, Still, Cine1-4, ITU709, ITU709 [800%], S-Log2, S-Log3, HLG, HLG1-3), Black Gamma, Knee, Color Mode, Saturation, Color Phase, Color Depth, Detail, Copy, Reset	Image Size (pixels), PAL	XAVC S 4K: 3840 x 2160 (25p, 100M), 3840 x 2160 (25p, 60M), XAVC S HD: 1920 x 1080 (100p, 100M), 1920 x 1080 (100p, 60M), 1920 x 1080 (50p, 50M), 1920 x 1080 (25p, 50M), 1920 x 1080 (50p, 25M), 1920 x 1080 (25p, 16M), AVCHD: 1920 x 1080 (50i, 24M, FX), 1920 x 1080 (50i, 17M, FH)
Dynamic Range Functions	Off, Dynamic Range Optimizer (Auto/Level (1-5)), Auto High Dynamic Range (Auto Exposure Difference, Exposure Difference Level (1-6 EV, 1.0 EV step))	Image frame rate	NTSC mode: 1fps, [2]fps, [4]fps, [8]fps, [15]fps, [30]fps, [60]fps, [120]fps, [PAL mode: [1]fps, [2]fps, [3]fps, [6]fps, [12]fps, [25]fps, [50]fps, [100]fps,
Colour Space	sRGB standard (with sYCC gamut) and Adobe RGB standard compatible with TRILUMINOS Color	Image size (frame rate)	NTSC mode: 1920 x 1080 (60p, 30p, 24p), PAL mode: 1920 x 1080 (50p, 25p)
14bit RAW	Yes	Movie Functions	Audio Level Display, Audio Rec Level, PAL/NTSC Selector, Proxy Recording (1280 x 720 (Approx.9Mbps)), TC/UB (TC Preset/UB Preset/TC Format/TC Run/TC Make/UB Time Rec), Auto Slow Shutter, REC Control, Clean HDMI Info. (ON/OFF selectable), Gamma Disp. Assist
Uncompressed RAW	-	HDMI Output	3840 x 2160 (30p), 3840 x 2160 (25p), 3840 x 2160 (24p), 1920 x 1080 (60p), 1920 x 1080 (60i), 1920 x 1080 (50p), 1920 x 1080 (50i), 1920 x 1080 (24p), YCbCr 4:2:2 8bit / RGB 8bit

Recycling Time	Approx. 4 sec	Interface	
External Flash Compatibility	Sony α System Flash compatible with Multi Interface Shoe, attach the shoe adaptor for flash compatible with Auto-lock accessory shoe	PC Interface	Mass-storage, MTP, PC remote
FE Level Lock	Yes	Multi / Micro USB Terminal	Yes
Wireless Control	Yes (Light signal: Available with Fill-flash, Slow Sync., Hi-speed sync. /Radio signal: Available with Fill-flash, Rear Sync., Slow Sync., Hi-speed sync.)	NFC™	Yes (NFC forum Type 3 Tag compatible),One-to-uch remote,One-to-uch sharing
Playback		Wireless LAN (Built-In)	Wi-Fi Compatible, IEEE 802.11b/g/n (2.4GHz band),View on Smartphone,Remote control via Smartphone,Send to Computer,View on TV
Photo Capture Modes	Single (with or without shooting information Y RGB histogram & highlight/shadow warning), 12/30-frame index view, Enlarged display mode (L: 16.7x, M: 11.8x, S: 8.3x, Panorama (Standard): 19.2x, Panorama (Wide): 29.1x), Auto Review (10/5/2 sec,Off), Image orientation (Auto/Manual/Off selectable), Slideshow, Panorama scrolling, Folder selection (Date/ Still/ AVCHD/XAVC S HD/XAVC S 4K), Forward/Rewind (movie), Delete, Protect, Rating, Disp Cont Shoot Grp	Bluetooth	Yes (Bluetooth Standard Ver. 4.1 (2.4GHz band))
		HD Output	HDMI micro connector (Type-D), BRAVIA Sync(Control for HDMI), PhotoTV HD, 4K movie output/4K still image PB
		Multi Interface Shoe	Yes
		Mic Terminal	Yes (3.5 mm Stereo minijack)
		DC IN Terminal	-
		Sync Terminal	-
		Headphone Terminal	-
		Vertical Grip Connector	-
		PC Remote	Yes
Audio		Print	
Microphone	Built-in stereo microphone or XLR-K2M/XLR-K1M/ECM-XYST1M(sold separately)	Compatible Standards	Exif Print, Print Image Matching III, DPOF setting
Speaker	Built-in, monaural		
Custom function		Lens Compensation	
Type	Custom key settings, Programmable Setting (Body 3 sets /memory card 4 sets), My Menu, My Dial, Reg Cust Shoot Set	Setting	Peripheral Shading, Chromatic Aberration, Distortion
Power		Others	
Supplied Battery	One rechargeable battery pack NP-FW50	Operating Temperature	32 - 104 degrees F / 0 - 40 degrees C
Battery Life (Still Images)	Approx. 360 shots (Viewfinder) / Approx. 410 shots (LCD monitor) (CIPA standard)		
Battery Life (Movie, actual recording)	Approx. 70 min (Viewfinder) / Approx. 75 min (LCD monitor) (CIPA standard)		
Battery Life (Movie, continuous recording)	Approx. 125 min (Viewfinder) / Approx. 125 min (LCD monitor) (CIPA standard)		
Internal Battery Charge	Yes		
External Power	AC Adaptor AC-PW20 (sold separately)		
Power consumption with Viewfinder	Still images: approx. 2.4W (with E PZ 16-50mm F3.5-5.6 OSS lens attached), Movies: approx. 3.5W (with E PZ 16-50mm F3.5-5.6 OSS lens attached)		
Power consumption with LCD screen	Still images: approx. 2.1W (with E PZ 16-50mm F3.5-5.6 OSS lens attached), Movies: approx. 3.5W (with E PZ 16-50mm F3.5-5.6 OSS lens attached)		
USB Power supply	Yes		
Size & Weight			
Weight (with battery and memory card included)	Approx. 403g / Approx. 14.3 oz.		
Dimensions (W x H x D)	Approx. 120.0mm x 66.9mm x 59.7mm, Approx. 120.0mm x 66.9mm x 49.9mm (from grip to monitor)/Approx. 4 3/4 x 2 3/4 x 2 3/8 inches, Approx. 4 3/4 x 2 3/4 x 2 inches (from grip to monitor)		

Features

Unparalleled AF performance is the key to beautiful shots

Fast and accurate autofocus lets you capture fleeting moments in stunning detail, thanks to a combination of innovative technologies. A total of 425 phase-detection AF points work in conjunction with contrast-detection AF to achieve a remarkable 0.02 sec. speed, while High-density AF Tracking Technology follows even erratically moving subjects.

AF in Focus Magnifier for finer focus adjustment

When extra-accurate autofocus is called for, such as when you're taking macro shots, you can display a magnified view of the general area you want to focus on, then finely adjust the exact point of focus in the viewfinder or on the LCD screen.

Real-time Tracking holds the focus on tracked subjects

When you're tracking a fast-moving subject, the camera's improved automatic subject motion tracker uses a newly developed subject recognition algorithm that draws on colour, pattern (brightness), subject distance (depth) and face/eye information to recognise, and hold onto, your subject.

High speed continuous shooting with AF/AE tracking

Capture all the action with continuous shooting at up to 11fps (with after view), or 8fps (with silent shutter) and 8fps (for live view). Display lag has been minimised, and up to 116 JPEG (Standard) images can be shot, with group display available. Camera operability and access to various features while writing data have also been greatly improved.

Extraordinary image quality, low noise and a wider ISO range

Maximum standard ISO sensitivity has been increased to ISO 32000 (expanded to ISO 102400 for stills), while improved imaging algorithms, detail reproduction technology and area-division noise reduction result in more realistic textures, better detail in shadow regions, and more lifelike colours, including human skin tones and natural plant colours.

14-bit RAW output with rich tonal gradation

When you're shooting in RAW format, the 14-bit digital signals that are converted from analog in the image sensor are passed to the front-end LSI and BIONZ X, where they undergo 16-bit processing before converting back to 14-bit RAW image output. This leads to smoother, more natural tonal gradation in these images. [1] Image Sensor [2] The latest high-speed front-end LSI [3] 16-bit Image processing

Steady, precise AF tracking for better movies

Fast Hybrid AF brings high speed, accuracy and tracking performance to meet the stringent autofocus demands of 4K movies. AF tracking sensitivity can be adjusted for either stable focus or responsive refocusing, depending on the nature of the scene, and Touch Tracking lets you initiate tracking of a moving subject simply by touching the LCD screen.

Slow and Quick motion, and high-speed 120fps recording

Slow motion (up to 5x) and quick motion (up to 60x) can be recorded in camera in high-quality Full HD, and no PC-based post-processing is required to view your slow-motion and quick-motion footage. Additionally, high bit-rate recordings of up to 100Mbps in Full HD can be used to create high-image-quality slow-motion movies in post-production.

Support for professional-quality mic and audio input

External microphones can be attached via the microphone jack, and there is also an option for line input via XLR connectors using the camera's separately available XLR adaptor kit, which enables connection with various high-end microphones for

More accurate autofocus in dim lighting

Highly accurate autofocus is now possible even in dark settings, thanks to advances in the AF algorithm. With this model, the lower limit on the AF detection brightness range has been reduced to EV-2 when in AF-S mode.

Easier manual focus with an improved peaking function

The camera's peaking function colour-highlights the most sharply focused section of the entire image area when you're using manual focus. Now blue has been added to the display's other peaking colours (red, yellow and white) to improve the visibility of the focus peak areas when you're doing the delicate focusing required for macro or portrait shooting.

Enhanced Real-time Eye AF supports portrait shooting

Real-time Eye AF detects and auto-focuses on the eyes of your subjects when you half-press the shutter. Either the left eye, the right eye, or auto can be specified, and when AF-C is set it maintains a stable focus even when part of the face is hidden, the face is backlit or the subject is facing downwards.

An innovative image-processing system

The camera's APS-C size, 24.2-megapixel Exmor™CMOS sensor provides a wide sensitivity range and excellent low-noise performance. In conjunction with the new-generation BIONZ X™ image processing engine, it delivers beautiful, high-resolution images with superb image clarity and texture reproduction.

Newly added 1:1 aspect ratio for easier social-media shots

In addition to 3:2 and 16:9 aspect (width-to-height) ratios, the 1:1 aspect ratio used by social media platforms is now offered as an option. This eliminates the need for cumbersome hand-trimming of images after shooting in preparation for posting on social media.

4K movie recording in high-bit-rate XAVC S format

Super 35mm format, 4K movie recording with full pixel readout and no pixel binning allows oversampling with approx. 2.4x as much information as is required for 4K (QFHD: 3840 x 2160), adding up to the equivalent of 6K and giving these images more realistic depth. High-bit-rate (max. 100Mbps) XAVC S format, a consumer-friendly version of a format for professional use, plus HLG support result in better-looking movies.

S-Gamut/S-Log shooting

S-Log shooting gives you flexibility to make more expressive movies by performing colour grading in post-production. The S-Log3 and S-Log2 gamma curves feature a wide dynamic range (up to 130%) that can help minimise blown highlights and blocked shadows. The S-Log3 gamma setting also provides an impressive 14-stop latitude.

Sophisticated features for easier movie-making

The α 6400 facilitates the workflow of professional videographers with a wide range of functions, including clean HDMI output, time code / user bits (TC/UB), rec. control, marker display/setting, zebra function, Slow & Quick Motion, simultaneous proxy movie recording, extraction and separate storage of a still from a movie, Gamma Display Assist function, and in-monitor display of current ISO value when shooting with ISO Auto, among others.

Interval shooting for the creation of time-lapse movies

Continuous shooting with a set interval between 1 and 60 seconds is now available within the camera, and the resulting still images can be edited into a time-lapse

frames after 5 sec. delay/3 frames after 2 sec. delay/5 frames after 2 sec. delay)/Bracketing self-timer (Off/2 sec. delay/5 sec. delay/10sec. delay)

professional-level audio.

180°-tiltable LCD screen with versatile touch functions

The high-resolution 921k-dot LCD has a 3.0-type screen and tilts upward a full 180° for easy framing of self-portraits and vlogs. The LCD's intuitive touch operations include Touch Pad (smoothly move the focus point), Touch Focus (set the focus point), Touch Shutter (release the shutter), and Touch Tracking (activate Real-Time AF).

Custom functions for greater operability

The camera's eight keys and controls can be custom-assigned to any of 89 shooting and replay functions, and frequently used functions can also be assigned to the control dial and control wheel with My Dial. My Menu allows flexible assignment of 30 menu items, and the custom settings screen helps keep track of everything. Help displays are available on the menu screen via a single button.

Greater control over white-balance settings

If set in advance, auto white balance can now be locked or unlocked at any time, for more consistent colour tones when there are multiple light sources. Custom setting of white balance has been simplified, and you can now select an AWB priority setting when shooting with incandescent lighting – either warmer Atmosphere Priority, or White Priority for purer whites.

Easier ratings and protection from deletion

Still images can be given a rating or protected from deletion, and both functions can be accessed via pre-assigned custom keys.

One-touch remote, One-touch sharing, Location Information Link

The One-touch remote feature turns your mobile device into a viewfinder and remote control, while One-touch sharing allows photos and videos to be transferred to your device for social media sharing. The camera can also acquire location data via Bluetooth®. (These mobile device features are available via Sony's Imaging Edge Mobile app.)

Imaging Edge desktop applications

Elevate your photography with the Imaging Edge desktop applications. Use "Remote" to control and monitor shooting live on your PC screen; "Viewer" to quickly preview, rate, and select photos from large image libraries; and "Edit" to develop RAW data into high-quality photos for delivery. Get the best from Sony RAW files, and manage your productions more efficiently.

movie on a PC using the Viewer application from the Imaging Edge™ desktop applications. A simple variable-speed preview function allows you to see an image, on the camera, of how the finished movie will look.

Smooth display on the OLED viewfinder

The high-contrast, high-resolution XGA OLED Tru-Finder™ provides high visibility, fine details even in dark areas, accurate colours and smooth displays at either 60fps or 120fps, with the framerate selectable for smoother viewing. Standard and High quality settings are available for both the viewfinder and the LCD monitor.

User-interface improvements for efficient settings control

A new feature displays frequently used ISO ranges on the ISO setting screen, and another displays frequently used focus-area types on the AF area-setting screen. And when using Flexible Spot mode you can now cycle the AF area up, down, right and left – useful when shooting sporting scenes where the subject moves frequently within the AF area.

More versatile flash functions

When shooting with compatible wireless flash units, rear-curtain sync and slow sync can now be selected, increasing your creative options for lighting.

Advances in remote camera control

When doing remote shooting using the Remote app from the Imaging Edge desktop applications, you can now use the overlay display to make precise adjustments to focus and composition while checking the live view on your PC screen.

Sturdy, durable construction for robust operation

The camera's low-vibration shutter mechanism is designed and tested to withstand around 200,000 shutter cycles, and the body, top cover and front cover use a light but highly rigid magnesium alloy. Major buttons and dials are sealed, and casing components have an interlocked double-layer structure to resist dust and moisture.

Marketing Web Site Product Page

[//www.sony.co.uk/permalink/product/ilce6400mb.cec?locale=en_GB](http://www.sony.co.uk/permalink/product/ilce6400mb.cec?locale=en_GB)