



**α7R IV**  
ILCE-7RM4A



## Main Specification

**TYPE**

35mm full frame (35.7×23.8mm), Exmor R CMOS sensor

**NUMBER OF PIXELS (EFFECTIVE)**

Approx. 61.0 megapixels

**ISO SENSITIVITY (RECOMMENDED EXPOSURE INDEX)**

Still images: ISO 100-32000 (ISO numbers up from ISO 50 to ISO 102400 can be set as expanded ISO range.), AUTO (ISO 100-12800, selectable lower limit and upper limit) Movies: ISO 100-32000 equivalent, AUTO (ISO 100-12800, selectable lower limit and upper limit)

**STILL IMAGES**

Approx. 530 shots (Viewfinder) / approx. 660 shots (LCD monitor) (CIPA standard)

**WITH BATTERY AND MEMORY CARD INCLUDED**

Approx. 665g

**DIMENSIONS (W X H X D)**

Approx. 128.9mm x 96.4mm x 77.5mm, Approx. 128.9mm x 96.4mm x 67.3mm(FROM GRIP TO MONITOR)

## Full Specification

### General

**CAMERA TYPE**

Interchangeable lens digital camera

**LENS MOUNT**

E-mount

### Image sensor

**TYPE**

35mm full frame (35.7×23.8mm), Exmor R CMOS sensor

**NUMBER OF PIXELS (EFFECTIVE)**

Approx. 61.0 megapixels

**NUMBER OF PIXELS (TOTAL)**

Approx. 62.5 megapixels

**IMAGE SENSOR ASPECT RATIO**

3:2

**COLOR FILTER**

R, G, B primary color

**ANTI-DUST FUNCTION**

Yes

## Recording system (still image)

### RECORDING FORMAT

JPEG (DCF Ver. 2.0, Exif Ver.2.31, MPF Baseline compliant), RAW (Sony ARW 2.3 format)

### IMAGE SIZE (PIXELS) [3:2]

35mm full frame L: 9504 x 6336 (60M), M: 6240 x 4160 (26M), S: 4752 x 3168 (15M) APS-C L: 6240 x 4160 (26M), M: 4752 x 3168 (15M), S: 3120 x 2080 (6.5M)

### IMAGE SIZE (PIXELS) [4:3]

35mm full frame L: 8448 x 6336 (54M), M: 5552 x 4160 (23M), S: 4224 x 3168 (13M) APS-C L: 5552 x 4160 (23M), M: 4224 x 3168 (13M), S: 2768 x 2080 (5.8M)

### IMAGE SIZE (PIXELS) [16:9]

35mm full frame L: 9504 x 5344 (51M), M: 6240 x 3512 (22M), S: 4752 x 2672 (13M) APS-C L: 6240 x 3512 (22M), M: 4752 x 2672 (13M), S: 3120 x 1752 (5.5M)

### IMAGE SIZE (PIXELS) [1:1]

35mm full frame L: 6336 x 6336 (40M), M: 4160 x 4160 (17M), S: 3168 x 3168 (10M) APS-C L: 4160 x 4160 (17M), M: 3168 x 3168 (10M), S: 2080 x 2080 (4.3M)

### IMAGE SIZE (PIXELS) [SWEEP PANORAMA]

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### IMAGE QUALITY MODES

RAW RAW & JPEG (Extra fine, Fine, Standard) JPEG (Extra fine, Fine, Standard)

### 14BIT RAW

Yes

### PICTURE EFFECT

7 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

### 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 (-5 to +5 steps))

### CREATIVE LOOK

-

### 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

### DYNAMIC RANGE FUNCTIONS

Off, Dynamic Range Optimizer (Auto/Level (1-5))

### COLOR SPACE

-

## Recording system (movie)

### RECORDING FORMAT

XAVC S AVCHD format Ver. 2.0 compliant

### VIDEO COMPRESSION

XAVC S:MPEG-4 AVC/H.264, AVCHD: MPEG-4 AVC/H.264

### AUDIO RECORDING FORMAT

XAVC S:LPCM 2ch AVCHD: Dolby Digital (AC-3) 2ch, Dolby Digital Stereo Creator

### 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

### 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 (-5 to +5 steps))

### CREATIVE LOOK

-

### 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

### COLOR SPACE

xvYCC standard (x.v.Color when connected via HDMI cable) compatible with TRILUMINOS Color

## Movie recording system (XAVC HS 8K)

7680 X 4320 (4:2:0, 10BIT, NTSC) (APPROX.)

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7680 X 4320 (4:2:0, 10BIT, PAL) (APPROX.)

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Movie recording system  
(XAVC HS 4K)

3840 X 2160 (4:2:0, 10BIT, NTSC) (APPROX.)

3840 X 2160 (4:2:0, 10BIT, PAL) (APPROX.)

3840 X 2160 (4:2:2, 10BIT, NTSC) (APPROX.)

3840 X 2160 (4:2:2, 10BIT, PAL) (APPROX.)

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Movie recording system  
(XAVC S 4K)

3840 X 2160 (4:2:0, 8BIT, NTSC) (APPROX.)  
30p (100Mbps / 60Mbps) 24p (100Mbps / 60Mbps)

3840 X 2160 (4:2:0, 8BIT, PAL) (APPROX.)  
25p (100Mbps / 60Mbps)

3840 X 2160 (4:2:2, 10BIT, NTSC) (APPROX.)

3840 X 2160 (4:2:2, 10BIT, PAL) (APPROX.)

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Movie recording system  
(XAVC S HD)

1920 X 1080 (4:2:2, 10BIT, NTSC) (APPROX.)

1920 X 1080 (4:2:2, 10BIT, PAL) (APPROX.)

1920 X 1080 (4:2:0, 8BIT, NTSC) (APPROX.)  
120p (100Mbps / 60Mbps)

1920 X 1080 (4:2:0, 8BIT, PAL) (APPROX.)  
100p (100Mbps / 60Mbps)

1920 X 1080 (4:2:0, 8BIT, NTSC) (APPROX.)  
60p (50Mbps / 25Mbps)

1920 X 1080 (4:2:0, 8BIT, PAL) (APPROX.)  
50p (50Mbps / 25Mbps)

1920 X 1080 (4:2:0, 8BIT, NTSC) (APPROX.)  
30p (50Mbps / 16Mbps)

1920 X 1080 (4:2:0, 8BIT, PAL) (APPROX.)  
25p (50Mbps / 16Mbps)

1920 X 1080 (4:2:0, 8BIT, NTSC) (APPROX.)  
24p (50Mbps)

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Movie recording system  
(XAVC S-I 4K)

3840 X 2160 (4:2:2, 10BIT, NTSC) (APPROX.)

3840 X 2160 (4:2:2, 10BIT, PAL) (APPROX.)

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Movie recording system  
(XAVC S-I HD)

1920 X 1080 (4:2:2, 10BIT, NTSC) (APPROX.)

1920 X 1080 (4:2:2, 10BIT, PAL) (APPROX.)

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Movie recording system  
(AVCHD)

1920 X 1080 (4:2:0, 8BIT, NTSC)  
60i (Approx24Mbps(Maximum bit-rate) /  
Approx17Mbps(Average bit-rate))

1920 X 1080 (4:2:0, 8BIT, PAL)  
50i (Approx24Mbps(Maximum bit-rate) /  
Approx17Mbps(Average bit-rate))

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Slow & Quick Motion (S&Q)

**IMAGE FRAME RATE**

NTSC mode:

1fps,2fps,4fps,8fps,15fps,30fps,60fps,120fps PAL

mode: 1fps,2fps,3fps,6fps,12fps,25fps,50fps,100fps

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## Movie function

### AUDIO LEVEL DISPLAY

Yes

### AUDIO REC LEVEL

Yes

### PAL/NTSC SELECTOR

Yes

### PROXY RECORDING

Yes(1280 x 720(Approx.9Mbps))

### TC/UB

Yes (TC Preset/UB Preset/TC Format/TC Run/TC Make/UB Time Rec)

### AUTO SLOW SHUTTER

Yes

### GAMMA DISP. ASSIST

Yes

### RAW OUTPUT

-

## Recording system

### LOCATION INFORMATION LINK FROM SMARTPHONE

Yes

### MEDIA

SD memory card SDHC memory card (UHS-I/II compliant) SDXC memory card (UHS-I/II compliant) microSD memory card microSDHC memory card microSDXC memory card

### MEMORY CARD SLOT

SLOT1:Slot for SD(UHS-I/II compliant) memory card SLOT2:Slot for SD(UHS-I/II compliant) memory card

### RECORDING MODE ON 2 MEMORY CARDS

Simult. Rec (Still), Simult. Rec (Movie), Simult. Rec (Still/Movie), Sort (JPEG/RAW), Sort (Still/Movie), Auto Switch Media (On/Off), Copy

### FILE SYSTEM

FAT12, 16, 32, exFAT

### NOISE REDUCTION

Long exposure NR: On/Off , available at shutter speeds longer than 1 sec. High ISO NR: Normal/Low/Off

## White balance

### MODES

Auto / Daylight / Shade / Cloudy / Incandescent / Fluorescent ( Warm White / Cool White / Day White / Daylight) / Flash /Underwater/ Color Temperature (2500 to 9900K) & color filter (G7 to M7(57-step), A7 to B7(29-step)) / Custom

### SHUTTER AWB LOCK

Yes (Shut. Halfway Down/ Cont. Shooting/ Off)

## Focus system

### TYPE

Fast Hybrid AF(phase-detection AF/contrast-detection AF)

### FOCUS SENSOR

Exmor R CMOS sensor

### FOCUS POINT

35mm full frame: 567 points (phase-detection AF), APS-C mode with full frame lens: 325 points (phase-detection AF), with APS-C lens: 247 points (phase-detection AF) / 425 points (contrast-detection AF)

### SENSITIVITY RANGE

EV-3 to EV20 (ISO100 equivalent with F2.0 lens attached)

### AF MODE

AF-A(Automatic AF), AF-S (Single-shot AF), AF-C ( Continuous AF), DMF (Direct Manual Focus), Manual Focus

### FOCUS AREA

Wide (567 points (phase-detection AF), 425 points(contrast-detection AF)) / Zone / Center / Flexible Spot (S/M/L)/Expanded Flexible Spot/ Tracking ( Wide / Zone / Center / Flexible Spot (S/M/L)/Expanded Flexible Spot)

### EYE-START AF

Yes (only with LA-EA2 or LA-EA4 attached(Sold separately))

### EYE AF

[Still images] Human (Right/Left Eye Select) / Animal, [Movie] Human (Right/Left Eye Select)

### OTHER FEATURES

Predictive control, Focus lock, AF Track Sens, Swt.V/H AF Area, AF Area Regist., Circ. of Focus Point

### AF ILLUMINATOR

Yes(with Built-in LED type)

### AF ILLUMINATOR RANGE

Approx. 0.3m - approx. 3.0m (with FE 28-70mm F3.5-5.6 OSS attached)

### AF MICRO ADJUSTMENT

Yes, (Sold separately) with LA-EA2 or LA-EA4

## Exposure control

### METERING TYPE

1200-zone evaluative metering

### METERING SENSOR

Exmor R CMOS sensor

### METERING SENSITIVITY

EV-3 to EV20 (at ISO100 equivalent with F2.0 lens attached)

### MODES

Multi-segment, Center-weighted, Spot, Spot Standard/Large, Entire Screen Avg., Highlight

### EXPOSURE MODES

AUTO(iAuto) Programmed AE (P) Aperture priority (A) Shutter-speed priority (S) Manual (M) Movie (Programmed AE (P) / Aperture priority (A) / Shutter-speed priority (S) / Manual (M) ) Slow & Quick Motion (Programmed AE (P) / Aperture priority (A) / Shutter-speed priority (S) / Manual (M) )

### SCENE SELECTION

-

### EXPOSURE COMPENSATION

+/- 5.0EV(1/3 EV, 1/2 EV steps selectable) (with exposure compensation dial : +/- 3EV (1/3 EV steps))

### BRACKETING

Bracket: Cont., Bracket: Single, 3/5/9 frames selectable. With 3 or 5 frames, in 1/3, 1/2, 2/3, 1.0, 2.0, or 3.0 EV increments, with 9 frames, in 1/3, 1/2, 2/3, or 1.0 EV increments.

### AE LOCK

Locked when shutter button is pressed halfway. Available with AE lock button. (On/Off/Auto)

### ISO SENSITIVITY (RECOMMENDED EXPOSURE INDEX)

Still images: ISO 100-32000 (ISO numbers up from ISO 50 to ISO 102400 can be set as expanded ISO range.), AUTO (ISO 100-12800, selectable lower limit and upper limit) Movies: ISO 100-32000 equivalent, AUTO (ISO 100-12800, selectable lower limit and upper limit)

### ANTI-FLICKER SHOOT.

Yes

## Viewfinder

### TYPE

1.3 cm (0.5 type) electronic viewfinder (color)

### NUMBER OF DOTS

5 760 000 dots

### CONTROL FUNCTION

-

### FIELD COVERAGE

100%

### MAGNIFICATION

approx. 0.78 x (with 50mm lens at infinity, -1m<sup>-1</sup>)

### DIOPTER ADJUSTMENT

-4.0 to +3.0m<sup>-1</sup>

### EYE POINT

Approx. 23mm from the eyepiece lens, 18.5mm from the eyepiece frame at -1m<sup>-1</sup> (CIPA standard)

### DISPLAY FUNCTION

-

### FINDER FRAME RATE SELECTION

NTSC mode: STD 60fps / HI 120fps PAL mode: STD 50fps / HI 100fps

## LCD screen

### TYPE

7.5cm (3.0-type) type TFT

### TOUCH PANEL

Yes

### NUMBER OF DOTS (TOTAL)

2,359,296 dots

### BRIGHTNESS CONTROL

Manual (5 steps between -2 and +2), Sunny Weather mode

### DISPLAY FUNCTION

-

### ADJUSTABLE ANGLE

Up by approx. 107 degrees, Down by approx. 41 degrees

### FOCUS CHECK

Yes (35mm full frame: 5.9x, 11.9x APS-C: 3.9x, 7.8x)

## Face detection

### MODES

Face Priority in AF (On/Off), Face Priority in Multi Metering (On/Off), Regist. Faces Priority (On/Off)

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## Clear Image Zoom

### STILL IMAGES

Approx. 2x

### MOVIES

Approx. 1.5x (4K), Approx. 2x (HD)

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## Digital zoom

### SMART ZOOM (STILL IMAGES)

35mm full frame: M: approx 1.5x, S: approx 2x APS-C: M: approx 1.3x, S: approx 2x

### DIGITAL ZOOM (STILL IMAGES)

35mm full frame: L: approx 4x, M: approx 6.1x, S: approx 8x APS-C: L: approx 4x, M: approx 5.3x, S: approx 8x

### DIGITAL ZOOM (MOVIE)

35mm full frame: approx 4x APS-C: approx 4x

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## Shutter

### TYPE

Electronically-controlled, vertical-traverse, focal-plane type

### SHUTTER TYPE

-

### SHUTTER SPEED

Still images: 1/8000 to 30 sec, Bulb, Movies: 1/8000 to 1/4 (1/3 steps) up to 1/50 in AUTO mode (up to 1/25 in Auto slow shutter mode)

### FLASH SYNC. SPEED

With compatible Sony external flash  
1/250 sec.

### ELECTRONIC FRONT SHUTTER CURTAIN

Yes (ON/OFF)

### SILENT SHOOTING

Yes (ON/OFF)

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## SteadyShot INSIDE (image stabilization)

### TYPE

Image Sensor-Shift mechanism with 5-axis compensation (Compensation depends on lens specifications)

### COMPENSATION EFFECT (STILL IMAGES)

5.5 stops (based on CIPA standard. Pitch/yaw shake only. With Planar T\* FE 50mm F1.4 ZA lens mounted. Long exposure NR off.)

### MODE

-

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## Flash

### TYPE

-

### GUIDE NO.

-

### FLASH COVERAGE

-

### CONTROL

Pre-flash TTL

### FLASH COMPENSATION

+/- 3.0 EV (switchable between 1/3 and 1/2 EV steps)

### FLASH MODES

Flash off Autoflash Fill-flash Slow Sync. Rear Sync. Red-eye reduction (on/off selectable) Wireless Hi-speed sync.  
With compatible external flash

### RECYCLING TIME

-

### EXTERNAL FLASH

Sony  $\alpha$  System Flash compatible with Multi Interface Shoe, attach the shoe adaptor for flash compatible with Auto-lock accessory shoe

### FE LEVEL LOCK

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.)

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## Drive

### DRIVE MODES

Single Shooting Continuous shooting (Hi+/Hi/Mid/Lo selectable) Self-timer Self-timer (Cont.) Bracket: Single Bracket: Cont. White Balance bracket DRO bracket

### SELF-TIMER

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

### PIXEL SHIFT MULTI SHOOTING

Yes(4 shots/16 shots)

*ImageshotinPixel ShiftMulti Shooting mode can be processed using a dedicated imaging software by Sony.  
Maximum flash-sync speed is limited to 1/8 second.*

### SPEED (APPROX., MAX.)

*Varies according to shooting conditions or memory card used*

Continuous shooting: Hi+: max. 10 fps, Hi: max. 8 fps, Mid: max. 6fps, Lo: max. 3 fps

### NO. OF FRAME RECORDABLE\* (APPROX.)

*Varies according to shooting conditions or memory card used*

JPEG Extra fine L: 68 frames JPEG Fine L: 68frames RAW: 68 frames RAW&JPG: 68 frames RAW(Uncompressed): 30 frames RAW(Uncompressed)&JPG: 30 frames

## Playback

### MODES

Single (with or without shooting information Y RGB histogram & highlight/shadow warning) 9/25-frame index view Enlarged display mode (L: 23.8x, M: 15.6x, S: 11.9x) Auto Review (10/5/2 sec,Off) Image orientation (Auto/Manual/Off selectable) Slideshow Folder selection (Date/ Still/ AVCHD/XAVC S HD/XAVC S 4K) Forward/Rewind (movie) Delete Protect Rating Display as Group

### PHOTO CAPTURE

Yes

## Interface

### PC INTERFACE

Mass-storage, MTP, PC remote

### MULTI / MICRO USB TERMINAL

*Supports Micro USB compatible device.*

Yes

### USB TYPE-C® TERMINAL

Yes (SuperSpeed USB 5Gbps (USB 3.2) compatible)

### NFC

Yes (NFC forum Type 3 Tag compatible)

### SYNC. TERMINAL

Yes

### WIRELESS LAN(BUILT-IN)

Yes(Wi-Fi Compatible, IEEE 802.11a/b/g/n/ac(2.4GHz band/5GHz band) )  
*(Configuration method/Access method)WPS or manually /infrastructure mode. When connecting to smartphones, the camera can always work as a base without a wireless access point. (Security: WEP/WPA-PSK/WPA2-PSK) Models sold in some countries/regions support IEEE 802.11b/g/n (2.4GHz) wireless LAN only.*

### BLUETOOTH

Yes (Bluetooth Standard Ver. 4.1 (2.4GHz band))

### HDMI CONNECTOR

HDMI micro connector (Type-D) BRAVIA Sync(Control for HDMI) PhotoTV HD 4K movie output/4K still image PB

### MULTI INTERFACE SHOE

*SonyaccessoriesfortheAccessoryShoecanbe attached.  
Yes(with Digital Audio Interface)*

### MIC TERMINAL

Yes(3.5 mm Stereo minijack)

### HEADPHONE TERMINAL

Yes(3.5 mm Stereo minijack)

### WIRED

-

### REMOTE CONTROL (WIRELESS)

-

### VERTICAL GRIP CONNECTOR

Yes

### LAN TERMINAL

-

### FUNCTIONS

-

## Audio

### MICROPHONE

Built-in, stereo

### SPEAKER

Built-in, monaural

## Print

### COMPATIBLE STANDARDS

Exif Print, Print Image Matching III, DPOF setting

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## Custom function

### CUSTOM KEY SETTINGS

Yes

### MY MENU

Yes

### MY DIAL SETTINGS

Yes

### REG CUST SHOOT SET

Yes

### PROGRAMMABLE SETTING

Yes (Body 3 sets /memory card 4 sets)

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## Lens compensation

### LENS COMPENSATION

Peripheral Shading, Chromatic Aberration, Distortion

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## Power

### BATTERY

One rechargeable battery pack NP-FZ100

### STILL IMAGES

The LCD screen is turned on, shot once every 30 seconds, operate zoom alternately between W and T ends, flash strobe once every two times, turn power off and on once every ten times.

Approx. 530 shots (Viewfinder) / approx. 660 shots (LCD monitor) (CIPA standard)

### MOVIES (ACTUAL RECORDING)

Indication recording time, which is defined by repeating the cycle: Power on, start recording, zoom, stand-by and power off.

Approx. 90 min (Viewfinder) / Approx. 105 min (LCD monitor) (CIPA standard)

### MOVIES (CONTINUOUS RECORDING)

Approx. 160 min (Viewfinder) / Approx. 170 min (LCD monitor) (CIPA standard)

### INTERNAL BATTERY CHARGE

Yes (Available with Multi/Micro USB Terminal or USB Type-C Terminal)

### USB POWER SUPPLY

Yes (Available with Multi/Micro USB Terminal or USB Type-C Terminal)

### EXTERNAL POWER (AC ADAPTOR)

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## Power consumption

### WITH VIEWFINDER

Still images: approx. 3.7W (with FE 28-70mm F3.5-5.6 OSS lens attached), Movies: approx. 6.2W (with FE 28-70mm F3.5-5.6 OSS lens attached)

### WITH LCD SCREEN

Still images: approx. 3.0W (with FE 28-70mm F3.5-5.6 OSS lens attached), Movies: approx. 5.8W (with FE 28-70mm F3.5-5.6 OSS lens attached)

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## Weight

### WITH BATTERY AND MEMORY CARD INCLUDED

Approx. 665g

### OZ. WITH BATTERY AND MEMORY CARD INCLUDED

approx. 1lb 7.5oz

### BODY ONLY

Approx. 580g

### OZ BODY ONLY

approx. 1lb 4.5oz

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## Dimensions

### DIMENSIONS (W X H X D)

Approx. 128.9mm x 96.4mm x 77.5mm, Approx. 128.9mm x 96.4mm x 67.3mm (FROM GRIP TO MONITOR)

### INCHES. DIMENSIONS (W X H X D)

Approx. 5 1/8 x 3 7/8 x 3 1/8 inches, Approx. 5 1/8 x 3 7/8 x 2 3/4 inches (FROM GRIP TO MONITOR)

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## Operating Temperature

### OPERATING TEMPERATURE

32 - 104 degrees F / 0 - 40 degrees C

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## Supplied Accessory

### KIT LENS

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### SUPPLIED ACCESSORY

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Aegis Electronic Group  
www.aegiselect.com