

## Type

- Type: Digital Single Lens Mirrorless camera
- Recording media: SD Memory Card / SDHC Memory Card / SDXC Memory Card (Compatible with UHS-I/UHS-II UHS Speed Class 3 standard SDHC/SDXC Memory Cards and UHS-II Video Speed Class 90 standard SDXC Memory Cards.)
- Lens mount: Micro Four Thirds mount

## Image Sensor

- Type: Live MOS sensor
- Camera effective pixels / total pixels: 10.28 megapixels / 11.93 megapixels
- Aspect ratio / Color filter: 4:3 / Primary color filter
- Latitude: 13 stops (V-Log L)

## Still Image

- Recording file format: JPEG (DCF, Exif 2.31)
- Aspect ratio: 4:3
- File size (Pixels): 3680x2760(L) / 2592x1944(M) / 1824x1368(S)
- Image quality: Fine / Standard
- Color space: sRGB

## Motion Picture

- Recording file format:
- MOV: H.264/MPEG-4 AVC, H.265/HEVC (Audio format: LPCM (2ch 48kHz/16-bit, 48kHz/24-bit\*, 96kHz/24-bit\*)) \*When attaching DMW-XLR1 (sold separately).
- MP4: H.264/MPEG-4 AVC, H.265/HEVC (Audio format: AAC (2ch))
- System frequency: 59.94Hz / 50.00Hz / 24.00Hz

## MOV

- 59.94Hz
  - [C4K] 4096x2160
    - 59.94p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM, High-Res Audio)
    - 59.94p, 150Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
    - 29.97p, 400Mbps (4:2:2 10-bit ALL-Intra)/ 150Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
    - 23.98p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
  - [4K] 3840x2160
    - 59.94p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM, High-Res Audio)

- 59.94p, 150Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
    - 29.97p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
    - 23.98p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
  - [Anamorphic 4K] 3328x2496 (4:3)
    - 59.94p, 150Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
    - 29.97p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
    - 23.98p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
  - [FHD] 1920x1080
    - 59.94p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
    - 29.97p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
    - 23.98p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
- 50.00Hz
  - [C4K] 4096x2160
    - 50.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM, High-Res Audio)
    - 50.00p, 150Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
    - 25.00p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
  - [4K] 3840x2160
    - 50.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM, High-Res Audio)
    - 50.00p, 150Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
    - 25.00p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
  - [Anamorphic 4K] 3328x2496 (4:3)
    - 50.00p, 200Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, LPCM, High-Res Audio)
    - 50.00p, 150Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
    - 25.00p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
  - [FHD] 1920x1080
    - 50.00p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)

- 25.00p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
- 24.00Hz
  - [C4K] 4096x2160
    - 24.00p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
  - [4K] 3840x2160
    - 24.00p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
  - [Anamorphic 4K] 3328x2496 (4:3)
    - 24.00p, 400Mbps (4:2:2 10-bit ALL-Intra) / 150Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)
  - [FHD] 1920x1080
    - 24.00p, 200Mbps (4:2:2 10-bit ALL-Intra) / 100Mbps (4:2:2 10-bit LongGOP) / 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM, High-Res Audio)

## MP4

- 59.94Hz
  - [4K] 3840x2160
    - 59.94p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, AAC)
    - 29.97p, 72Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, AAC)
    - 23.98p, 72Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, AAC)
    - 29.97p, 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC)
    - 23.98p, 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC)
  - [FHD] 1920x1080
    - 59.94p, 28Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC)
    - 29.97p, 20Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC)
    - 23.98p, 24Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC)
- 50.00Hz
  - [4K] 3840x2160
    - 50.00p, 100Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, AAC)
    - 25.00p, 72Mbps (4:2:0 10-bit LongGOP) (H.265/HEVC, AAC)
    - 25.00p, 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC)
  - [FHD] 1920x1080
    - 50.00p, 28Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC)
    - 25.00p, 20Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, AAC)

## Variable Frame Rate

- MOV
- 59.94Hz
  - [C4K] 4096x2160

- 29.97p (Maximum output of sensor is 60fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
    - 23.98p (Maximum output of sensor is 60fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
  - [4K] 3840x2160
    - 29.97p (Maximum output of sensor is 60fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
    - 23.98p (Maximum output of sensor is 60fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
  - [Anamorphic 4K] 3328x2496 (4:3)
    - 29.97p (Maximum output of sensor is 60fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
    - 23.98p (Maximum output of sensor is 60fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
  - [FHD] 1920x1080
    - 59.94p (Maximum output of sensor is 240fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
    - 29.97p (Maximum output of sensor is 240fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
    - 23.98p (Maximum output of sensor is 240fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
- 50.00Hz
  - [C4K] 4096x2160
    - 25.00p (Maximum output of sensor is 60fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
    - [4K] 3840x2160 25.00p (Maximum output of sensor is 60fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
  - [Anamorphic 4K] 3328x2496 (4:3)
    - 25.00p (Maximum output of sensor is 60fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
  - [FHD] 1920x1080
    - 50.00p (Maximum output of sensor is 240fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
    - 25.00p (Maximum output of sensor is 240fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
- 24.00Hz
  - [C4K] 4096x2160
    - 24.00p (Maximum output of sensor is 60fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
    - [4K] 3840x2160
      - 24.00p (Maximum output of sensor is 60fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)

- [Anamorphic 4K] 3328x2496 (4:3)
  - 24.00p (Maximum output of sensor is 60fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)
  - [FHD] 1920x1080
  - 24.00p (Maximum output of sensor is 240fps), 100Mbps (4:2:0 8-bit LongGOP) (H.264/MPEG-4 AVC, LPCM)

## Focus

- Type: Contrast AF system
- DFD technology: Yes
- Focus mode: AF / MF
- AF mode: Motion picture: Auto Detection (Face, Eye, Body, Animal) / 225-Area / Zone (Oval) / 1-Area
- Still image: Auto Detection (Face, Eye, Body, Animal) / 225-Area / 1-Area
- AF detection range: EV -6 – 20 (F1.4, ISO100 equivalent, AF (Still image))
- AF custom setting (Motion picture): AF Speed, AF Sensitivity
- AF lock: Set the Fn button in custom menu to AF lock
- Others: AF-ON, Continuous AF, AF+MF, MF Guide, MF Assist, Focus Peaking, Focus Ring Lock, 1-Area AF Moving Speed, Lens Focus Resume

## Exposure Control

- Light metering system: 1,728-zone multi-pattern sensing system
- Light metering mode: Multiple / Center Weighted / Spot / Highlight Weighted
- Metering range: EV0-18 (F2.0 lens, ISO100 equivalent)
- Exposure mode: Program AE / Aperture Priority AE / Shutter Priority AE / Manual Exposure
- ISO sensitivity (Standard output sensitivity): Auto / 80\* / 100\* / 160 / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600 / 51200 / 102400\* / 204800\* (Changeable to 1/3 EV step)  
\*Extended ISO

## Dual Native ISO

- [Normal]
  - Native ISO: 160, 800
  - Auto: Auto / 80\* / 100\* / 160-51200 / 102400\* / 204800\* \*Extended ISO
  - Low: Auto / 80\* / 100\* / 160-800 \*Extended ISO
  - High: Auto / 800-51200 / 102400\* / 204800\* \*Extended ISO
- [V-Log L]
  - Native ISO: 400, 2000
  - Auto: Auto / 400-25600
  - Low: Auto / 400-2000
  - High: Auto / 2000-25600

- [HLG]
  - Native ISO: 320, 1600
  - Auto: Auto / 320–51200 / 102400\* / 204800\* \*Extended ISO
  - Low: Auto / 320–1600
  - High: Auto / 1600–51200 / 102400\* / 204800\* \*Extended ISO
- [Cinelike D2 / Cinelike V2]
  - Native ISO: 160, 800
  - Auto: Auto / 80\* / 100\* / 160–51200 / 102400\* / 204800\* \*Extended ISO
  - Low: Auto / 80\* / 100\* / 160–800 \*Extended ISO
  - High: Auto / 800–51200 / 102400\* / 204800\* \*Extended ISO
- Exposure compensation:
  - Motion picture: 1/3 EV step  $\pm 3EV$
  - Still image: 1/3 EV step  $\pm 5EV$
- AE lock: Set the Fn button in custom menu to AE lock

## White Balance

- White balance: AWB / AWBc / AWBw / Daylight / Cloudy / Shade / Incandescent / White Set 1, 2, 3, 4 / Color temperature setting 1, 2, 3, 4
- White balance adjustment: Blue/Amber bias, Magenta/Green bias
- Color temperature setting: 2500–10000K in 100K

## Shutter

- Shutter speed:
  - Motion picture: 1/16,000 – 1/2
  - Still image: 1/16,000 – 1 \*Only the PTP command using the software LUMIX Tether for still image shooting.

## Photo Style

- Photo style:
  - Motion picture: Standard / Vivid / Natural / Landscape / Portrait / Monochrome / L. Monochrome / L. Monochrome D / Cinelike D2 / Cinelike V2 / Like709 / V-Log L / Hybrid Log Gamma / My Photo Style 1–10
  - Still image: Standard \*Only the PTP command using the software LUMIX Tether for still image shooting.
  - Picture adjustment: Contrast / Highlight / Shadow / Saturation / Color Tone / Hue / Filter Effect / Sharpness / Noise Reduction / Dual Native ISO Setting / ISO / WB

## Other Functions

- Master pedestal level: 31 steps
- Luminance level:
  - 8-bit: 0–255 / 16–235 / 16–255
  - 10-bit: 0–1023 / 64–940 / 64–1023
- LUT view assist: Rec / Playback: HDMI / SDI
- HLG view assist: Rec / Playback: HDMI (AUTO / MODE1 / MODE2 / OFF) / SDI (MODE1 / MODE2 / OFF)
- Anamorphic desqueeze display:
  - 2.0x / 1.8x / 1.5x / 1.33x / 1.30x / OFF
  - Rec: SDI
  - Playback: HDMI / SDI
  - Synchro scan: Yes
- SS/Gain operation: Shutter Duration/ISO / Angle/ISO / Shutter Duration/dB
- Color bars / 1kHz test tone: Yes (SMPTE / EBU / ARIB) / Yes
- Knee control: Yes (in Like709 mode)
- Level Gauge: Yes

## Function Button

- REC: Exposure Mode / Aperture Value / Shutter Speed / Exposure Comp. / Dual Native ISO Setting / Sensitivity / White Balance / Photo Style / Metering Mode / i.Dynamic Range / Filter Effect / One Push AE / Synchro Scan / Focus Mode / AF Mode / AF Custom Setting (Video) / Focus Peaking / Focus Peaking Sensitivity / 1-Area AF Moving Speed / Focus Ring Lock / AE LOCK / AF LOCK / AF/AE LOCK / AF-ON / AF-ON: Near Shift / AF-ON: Far Shift / Focus Area Set / Rec File Format / Rec Quality / Rec Quality (My List) / Variable Frame Rate / Time Code Display / Sound Rec Level Disp. / Mute Sound Input / Sound Rec Level Adj. / Sound Rec Level Limiter / XLR Mic Adaptor Setting / Special Mic. Directivity Adjust / Image Stabilizer / E-Stabilization (Video) / Image Area of Video / Digital Zoom / Focus Transition / Live Cropping / Q.MENU / Rec/Playback Switch / Video Record / Cursor Button Lock / DISP. / Level Gauge / Histogram / Luminance Spot Meter / Frame Marker / Monochrome Live View / Zebra Pattern / LUT View Assist (HDMI) / LUT View Assist (SDI) / LUT Select / HLG View Assist (HDMI) / HLG View Assist (SDI) / Anamorphic Desqueeze Display / Color Bars / Zoom Control / Step Zoom / Zoom Speed / Destination Card Slot / LAN/Wi-Fi / Info Display (HDMI/SDI) / Fan Mode / No Setting / Off (Disable Press and Hold) / Restore to Default
- Play: Anamorphic Desqueeze Display / Delete Single / Protect / Rating 1, 2, 3, 4, 5 / Copy / Rec/Playback Switch / Video Record / DISP. / Card Slot Change / Wi-Fi / Info Display (HDMI/SDI) / Fan Mode / LUT View Assist (HDMI) / LUT View Assist (SDI) / HLG View Assist (HDMI) / HLG View Assist (SDI) / No Setting / Off (Disable Press and Hold) / Restore to Default

## Interface

- USB: SuperSpeed USB 3.1 Gen1 Type-C
- DC IN: DC 12V (11.4–12.6V), EIAJ Type4

- HDMI
  - HDMI: HDMI Type A
  - Audio: Stereo
  - Monitor-through:
    - 4:2:2 10bit (When [Rec Quality] is set to [4:2:2 10bit] or [4:2:0 10bit].)
    - 4:2:2 8bit (When [Rec Quality] is set to [4:2:0 8bit].)
    - Down Convert: Auto / 4K/30p/25p / 1080p / 1080i / OFF
  - Playback
    - 59.94Hz: Auto / C4K/59.94p / C4K/29.97p / C4K/23.98p / 4K/59.94p / 4K/29.97p / 4K/23.98p / 1080/59.94p / 1080/29.97p / 1080/23.98p / 1080/59.94i / 720/59.94p / 480/59.94p
    - 50.00Hz: Auto / C4K/50.00p / C4K/25.00p / 4K/50.00p / 4K/25.00p / 1080/50.00p / 1080/25.00p / 1080/50.00i / 720/50.00p / 576/50.00p
    - 24.00Hz: Auto / C4K/24.00p / 4K/24.00p / 1080/24.00p
- SDI
  - SDI: BNC Terminal, 0.8V [p-p], 75Ω, 3G-SDI
  - Audio: Stereo, SDI Sound Output Gain Adj.: 0dB / -6dB / -8dB
  - Monitor-through: 4:2:2 10bit
  - Playback
    - 59.94Hz: 1080/59.94p / 1080/29.97p / 1080/23.98p / 1080/59.94i / 1080/29.97PsF / 1080/23.98PsF / 720/59.94p
    - 50.00Hz: 1080/50.00p / 1080/25.00p / 1080/50.00i / 1080/25.00PsF / 720/50.00p
    - 24.00Hz: 1080/24.00PsF
- Ethernet
  - Remote Control: LAN Terminal (RJ-45)
  - Power Supply: PoE+ (IEEE802.3 compliant)
- Remote input:  $\phi$  2.5mm
- Microphone: Stereo, Wind Noise Canceller: OFF / Low\* / Standard / High \*When attaching DMW-MS2 (sold separately).
- External microphone / external audio device input:
  - $\phi$  3.5mm for external microphone / external audio device
  - MIC (Plug-in Power) / MIC / LINE is selectable.
  - Stereo/Lens Auto/Shotgun/Super Shotgun/Manual is selectable when attaching DMW-MS2 (sold separately).
- XLR microphone: Yes with DMW-XLR1 (sold separately)
- Headphone output:  $\phi$  3.5mm
- SD card slot: Slot 1, Slot 2
- TC IN/OUT
  - Count up: Rec Run / Free Run
  - Time code mode: Drop Frame / Non-Drop Frame (When system frequency [59.94Hz] is selected.)
  - HDMI time code output: ON / OFF



- SDI time code output: ON / OFF
- External TC setting: TC Synchronization / TC Output Reference
- Genlock IN
  - Genlock IN: ON / OFF
  - Horizontal phase synchronization: -206 – +49
- Fan: Auto1 / Auto2 / Normal / Slow
- Lamp: Tally Lamp (front/rear) / Card Access Lamp / Power LED / Network LED

## Wireless

- Wi-Fi: IEEE 802.11b/g/n, 2412 MHz – 2462 MHz (1–11 ch), Wi-Fi / WPA / WPA2, Infrastructure mode
- Bluetooth: Bluetooth v4.2 (Bluetooth Low Energy (BLE))

## Power

- Direct power supply
  - AC Adaptor (12V, 3A) (bundled)
  - Li-ion Battery Pack (7.28V) (sold separately)
  - PoE+ (IEEE802.3 compliant) (sold separately)
- Battery
  - Li-ion Battery Pack AG-VBR59 (7.28V, 5900mAh, 43Wh) (sold separately)
  - Li-ion Battery Pack AG-VBR89 (7.28V, 8850mAh, 65Wh) (sold separately)
  - Li-ion Battery Pack AG-VBR118 (7.28V, 11800mAh, 86Wh) (sold separately)
- Continuous recordable time (Motion picture)
  - MP4 [4K/60p]: Approx. 270 min, MP4 [FHD/60p]: Approx. 300 min \*When using H-ES12060 and AG-VBR59 (sold separately). When the battery is fully charged.
  - MP4 [4K/60p]: Approx. 420 min, MP4 [FHD/60p]: Approx. 480 min \*When using H-ES12060 and AG-VBR89 (sold separately). When the battery is fully charged.
  - MP4 [4K/60p]: Approx. 560 min, MP4 [FHD/60p]: Approx. 640 min \*When using H-ES12060 and AG-VBR118 (sold separately). When the battery is fully charged.
- Actual recordable time (Motion picture)
  - MP4 [4K/60p]: Approx. 135 min, MP4 [FHD/60p]: Approx. 150 min \*When using H-ES12060 and AG-VBR59 (sold separately). When the battery is fully charged.
  - MP4 [4K/60p]: Approx. 210 min, MP4 [FHD/60p]: Approx. 240 min \*When using H-ES12060 and AG-VBR89 (sold separately). When the battery is fully charged.
  - MP4 [4K/60p]: Approx. 280 min, MP4 [FHD/60p]: Approx. 320 min \*When using H-ES12060 and AG-VBR118 (sold separately). When the battery is fully charged.

## Dimensions and Weight

- Dimensions (W x H x D): Approx. 93.0 x 93.0 x 78.0 mm (excluding protrusions)
- Weight: Approx. 545g (Body only)