



LUMIX DMC-FZ70 16.1 MP 60X Zoom Digital Camera - Black

DMC-FZ70K

- **Metrics**

- **Dimensions (W x H x D)** 130.2 x 97.0 x 118.2 mm / (5.13 x 3.82 x 4.65 inch)
 - **Weight** Approx. 562g without Battery and SD Memory Card (1.24 lb) / Approx. 606g with Battery and SD Memory Card (1.34 lb)
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- **Optics**

- *Pixels*
- Camera Effective Pixels 16.1 Megapixels
- *Sensor*
- Sensor Size / Total Pixels / Filter 1/2.3-inch High Sensitivity MOS Sensor / Total Pixel Number 16.8 Megapixels / Primary Color Filter
- *Lens*
- Aperture F2.8 - 5.9 / Multistage Iris Diaphragm (F2.8 - 8.0 (W), F5.9 - 8.0 (T))
- Optical Zoom 60x
- Focal Length $f = 3.58 - 215\text{mm}$ (20 - 1200mm in 35mm equiv.) / (22 - 1320mm in 35mm equiv. in video recording)
- Extra Optical Zoom (EZ) 75.8x (4:3 / 10M), 108x (4:3 / 5M), 135x (4:3 / under 3M)
- Intelligent Zoom 120x
- 2-Speed Zoom Yes
- Optical Image Stabilizer POWER O.I.S. (On with Active Mode (only for Motion Picture) / Off)
- Digital Zoom Max. 5x
- Conversion Lens Compatibility Yes
- *Focus*
- Focusing Area Normal: Wide 30cm - infinity / Tele 150cm - infinity / AF Macro / MF / Intelligent Auto / Motion Picture: Wide 1 cm - infinity / Tele 150 cm - infinity
- AF Assist Lamp Yes (On/Off)
- AF Metering Face / AF Tracking / 23-area / 1-area (flexible / scalable)
- *Shutter*
- Shutter Speed Still Image: / Approx. 8 - 1/2,000 sec / Starry Sky Mode: 15, 30, 60 sec / Motion Picture: / Approx. 1/30 - 1/20,000 sec / Creative Video Mode: 1/8 - 1/20,000 sec
- *Finder*
- Viewfinder 0.20" Color EVF (202K dots equiv.), Field of View: Approx. 100%, Lens 19.6x

● Recording

- *File*
 - File Format Still Image: JPEG (DCF/Exif2.3) / RAW, DPOF / 3D Image: MPO / Motion Picture: AVCHD MP4
 - *Recording Modes*
 - Mode Dial / Mode Button Intelligent Auto, P, A, S, M, Creative Video, C, Panorama Shot, Scene, Creative Control
 - Creative Control mode Expressive, Retro, Old Days, High Key, Low Key, Sepia, Dynamic Monochrome Impressive Art, High Dynamic, / Cross Process, Toy Effect, Miniature Effect, Soft Focus, Star Filter, On Point Color (15 filters)
 - Still Image Scene Mode Portrait, Soft Skin, Scenery, Sports, Panning, Night Portrait, Night Scenery, Handheld Night Shot, / Food, Baby1, Baby2, Pet, Sunset, High Sensitivity, Glass Through, HDR, Starry 3D Photo
 - Continuous Shooting Mode Full-Resolution Image: 9 frames/sec, Max. 3 images with AF Tracking: 5 frames/sec, 2 frames/sec / High-speed Burst: Approx. 10 frames/sec (recorded in 3M for 4:3, 2.5M for 3:4)
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2M for 16:9, 2.5M for 1:1) / Flash Burst Shooting

- *Motion Picture Recording (*2)*
- **HD Video 1920 x 1080 pixels, 60i (FSH: 17Mbps / AVCHD) (Sensor Output is 30fps) / 1280 x 720 pixels, (SH: 17Mbps / AVCHD) (Sensor Output is 30fps) / 1920 x 1080 pixels, 30p (FHD: 20Mbps / MP4) (Sensor Output is 30fps) / 1280 x 720 pixels, 30p (HD: 10Mbps / MP4) (Sensor Output is 30fps)**
- **STD Video 640 x 480, 30p (VGA: 4Mbps / MP4) (Sensor Output is 30fps)**
- **High Speed Video -**
- *Continuous recordable time (motion pictures)*
- **AVCHD Approx. 160 min (FSH), Approx. 180 min (SH)**
- **MP4 Approx. 160 min (FHD)**
- *Actual recordable time (motion pictures)*
- **AVCHD Approx. 80 min (FSH), Approx. 90 min (SH)**
- **MP4 Approx. 80 min (FHD)**
- *Exposure Parameters*
- **Exposure Program AE, Aperture Priority AE, Shutter Priority AE, Manual**
- **Exposure Compensation 1/3 EV step, +/- 3 EV**
- **Auto (AE) Bracketing 1/3-3EV step, Max. +/- 3 EV, 3 frames**
- **Light Metering Intelligent Multiple / Center Weighted / Spot**
- **ISO Sensitivity Auto / i.ISO / 100 / 200 / 400 / 800 / 1600 / 3200 / (Changeable to 1/3 EV step) / High Sensitivity Mode (ISO1600 - 6400)**
- *Picture Quality*
- **Still Picture Recording [4:3] 4608x3456 (16M) / 3648x2736 (10M EZ) / 3072x2304 (7M EZ) / 2560x1920 EZ) / 2048x1536 (3M EZ) / 640x480 (0.3M EZ) / [3:2] 4608x3072 (14M) / 3648x2432 (9M EZ) / 3072x2048 (6M EZ) / 2560x1712 (4.5M EZ) / 2048x1360 (2.5M EZ) / 640x424 (0.3M EZ) / [16:9] 4608x2592 (12M) / 3648x2056 (7.5M EZ) / 3072x1728 (5.5M EZ) / 2560x1440 (3.5M EZ) / 1920x1080 (2M EZ) / 640x360 (0.3M EZ) / [1:1] 3456x3456 (12M) / 2736x2736 (7.5M EZ) / 2304x2304 (5.5M EZ) / 1920x1920 (3.5M EZ) / 1536x1536 (2.5M EZ) / 480x480 (0.2M EZ)**
- **Image Quality RAW / RAW+Fine / RAW+Standard / Fine / Standard (3D Mode: MPO+Fine / MPO+Standard)**
- **White Balance Auto / Daylight / Cloudy / Shade / Incandescent / Flash / White Set 1 / White Set 2 / Color Temperature (2-axis adjustable)**
- **Photo Style / Film Mode Photo Style: Standard, Vivid, Natural, Monochrome, Scenery, Portrait, Custom**
- **Color Mode / Color Effect / My color Color Mode (only in iA Mode): Standard, Black & White, Sepia, Happy**
- **Picture Adjustment Contrast, Sharpness, Saturation, Noise Reduction**
- **Aspect Bracketing -**
- *Other*
- **Digital Red Eye Correction (Red-Eye Removal) Yes (On/Off)**
- **GPS -**
- **Wi-Fi -**
- **NFC -**

- **Zoom in Motion Picture Yes**
 - **Self Timer 2 sec / 10 sec / 10 sec (3 images)**
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- **Playback**

- *Display*
 - **Playback Mode All, Slideshow, Filtering Play (Picture Only, Video Only, 3D Play, Category Selection, Favorite), Calendar**
 - **Thumbnails / Zoomed Playback 12,30-thumbnails / Yes**
 - **Calendar Display / Dual- Image Playback Yes (Menu / Zoom Lever) / No**
 - **Set Favorites / Rotate Image Yes / No**
 - **Show Histogram Yes**
 - **Show Highlights Yes**
 - **DPOF Print Setting / Set Protection Yes / Yes**
 - *Edit*
 - **Retouch Auto Retouch / Creative Retouch**
 - **Resize / Cropping / Aspect Conv. / Leveling Yes / Yes / No / Yes**
 - **Copy / Title Edit / Text Stamp Yes / Yes / Yes**
 - **Cut Animation Yes**
 - **Video Divide Yes**
 - **PictBridge Support Single / Multi / All / DPOF / Favorites**
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- **Others**

- *Monitor*
 - **LCD Monitor 3.0" (7.5cm) TFT Screen LCD Display (460K dots), AR Coating / Field of View: Approx. 100%, Wide Viewing-angle / Power Monitor mode, AUTO Power Monitor mode**
 - *Flash*
 - **Built- in- Flash Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off / Synchro: 1st / 2nd Slow Sync. / 0.3 - 13.5m (Wide / ISO Auto), 1.5 - 6.4m (Tele / ISO Auto)**
 - *Media*
 - **Recording Media Built-in Memory, SD Memory Card, SDHC Memory Card, SDXC Memory Card**
 - **Built- in- Memory Approx. 200MB**
 - *Audio*
 - **Microphone / Speaker Stereo / Mono**
 - *Power*
 - **Battery life (approx.) 400 pictures (CIPA Standard)*1**
 - *Standard Package*
 - **Included Software PHOTOfunSTUDIO 9.2AE / Adobe Reader**
 - **Standard Accessories Battery Pack, Battery Charger, USB Cable, Shoulder Strap, CD-ROM, Lens Cap Cap String**
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- **Further Specifications**

- **NOTE *1 / Recording conditions by CIPA standard / - Temperature: 23 oC (73.4 oF) / Humidity: 50%RH when LCD monitor is on. / - Using a Panasonic SDHC Memory Card / - Using the supplied battery. / - Starting recording 30 seconds after the camera is turned on. (When the optical image stabilizer function is [ON].) / - Recording once every 30 seconds with full flash every second recording. / - Rotating the zoom lever from Tele to Wide or vice versa in every recording. / - The number of recordable pictures varies depending on the recording interval time. / - If the recording interval time becomes longer, the number of recordable pictures decreases. / - CIPA is an abbreviation of [Camera & Imaging Products Association] - These are standard times taken at a temperature of 23 oC (73.4 oF) and a humidity of 50%RH. / - The available recording time varies depending on the environment, the interval between recordings, and the manner of use. / - Actual recordable time is the time available for recording when repeating actions such as switching the power supply [ON] / [OFF], starting/stopping recording, zoom operation etc. / - Maximum continuous recording time with [MP4] is 29 minutes 59 seconds or up to 4 GB.**
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- ○ **UPC885170150737**
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