

## DMC-FZ38 Specifications

|                  |                               |                                            |                                                                                                                                                                            |
|------------------|-------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Metrics</b>   | <b>Dimensions (W x H x D)</b> |                                            | 117.6 x 75.8 x 88.9 mm (4.63 x 2.98 x 3.50 in)                                                                                                                             |
|                  | <b>Weight</b>                 |                                            | Approx. 367g (0.81 lb)<br>Approx. 414g with Battery and SD Memory Card (0.91 lb)                                                                                           |
| <b>Optics</b>    | <b>Pixels</b>                 | <b>Camera Effective Pixels</b>             | 12.1 Megapixels                                                                                                                                                            |
|                  |                               | <b>Sensor Size / Total Pixels / Filter</b> | 1/2.33-inch / 12.7 Total Megapixels / Primary Color Filter                                                                                                                 |
|                  | <b>CCD</b>                    | <b>Aperture</b>                            | F2.8 - 4.4 / Multistage Iris Diaphragm (F2.8 - 8 (W) / F4.4 - 8 (T))                                                                                                       |
|                  |                               | <b>Optical Zoom</b>                        | 18x                                                                                                                                                                        |
|                  | <b>Lens</b>                   | <b>Focal Length</b>                        | f=4.8-86.4mm (27-486mm in 35mm equiv.)                                                                                                                                     |
|                  |                               | <b>Extra Optical Zoom (EZ)</b>             | 22.1x (4:3 / 8M), 28.1x (4:3 / 5M), 35.2x (under 3M)                                                                                                                       |
|                  |                               | <b>Lens</b>                                | LEICA DC VARIO-ELMARIT<br>11 elements in 8 groups<br>(3 Aspherical Lenses / 2 ED lenses)                                                                                   |
|                  |                               | <b>2-Speed Zoom</b>                        | Yes                                                                                                                                                                        |
|                  |                               | <b>Optical Image Stabilizer</b>            | Power O.I.S. (Auto / Mode1 / Mode2)                                                                                                                                        |
|                  |                               | <b>Conversion lens Compatibility</b>       | Yes                                                                                                                                                                        |
|                  |                               | <b>Digital Zoom</b>                        | 4x<br>( Max. 72.0 x combined with Optical Zoom without Extra Optical Zoom )<br>(Max.140.8x combined with Extra Optical Zoom)                                               |
|                  |                               | <b>Focus</b>                               | Normal: Wide 30cm - infinity<br>Macro / Intelligent AUTO : Wide 1cm / 200 cm (MAX)<br>/ 100 cm (11x - 18x) - infinity                                                      |
|                  |                               | <b>Focus Range Display</b>                 | Yes                                                                                                                                                                        |
|                  |                               | <b>AF Assist Lamp</b>                      | Yes                                                                                                                                                                        |
|                  |                               | <b>Focus</b>                               | Normal / Macro, Quick AF On/Off (On in Intelligent Auto),<br>Continuous AF On/Off<br>AF/MF Switchable, Manual Focus(Joystick), One Shot AF,<br>AF Area Select, AF Tracking |
|                  |                               | <b>AF Metering</b>                         | Face / AF Tracking / Multi (11pt) / 1pt HS / 1pt / Spot                                                                                                                    |
|                  | <b>Shutter</b>                | <b>Shutter Speed</b>                       | Still: 60 - 1/2000 sec<br>Creative Movie Mode : 1/30 - 1/20,000 sec (1/8 - 1/20,000 sec<br>on MF operation on Manual mode)                                                 |
|                  | <b>Finder</b>                 | <b>Viewfinder</b>                          | 0.20" Color EVF (201.6K Pixels equiv.), Field of View : approx.<br>100%, Lens 19.6x                                                                                        |
| <b>Recording</b> | <b>iA</b>                     | <b>Optical Image Stabilizer</b>            | Yes                                                                                                                                                                        |
|                  |                               | <b>Intelligent ISO Control</b>             | Yes                                                                                                                                                                        |
|                  |                               | <b>Face Detection</b>                      | Yes                                                                                                                                                                        |
|                  |                               | <b>Intelligent Scene Selector</b>          | Portrait, Scenery, Night Portrait, Night Scenery, Macro                                                                                                                    |
|                  |                               | <b>Intelligent Exposure</b>                | Yes                                                                                                                                                                        |
|                  |                               | <b>AF Tracking</b>                         | Yes                                                                                                                                                                        |
|                  |                               | <b>Digital Red Eye Correction</b>          | Yes                                                                                                                                                                        |
|                  |                               | <b>File Format</b>                         | Still Image: JPEG(DCF/Exif2.21) / RAW<br>Motion picture: AVCHD Lite / QuickTime Motion JPEG                                                                                |
|                  | <b>Interface</b>              | <b>Mode Switch</b>                         | [Recording] / [Playback]                                                                                                                                                   |

|                     |                                      |                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recording Modes     | Mode Dial / Mode Button              | Intelligent AUTO, P(Program) mode, A(Aperture Priority) mode, S(Shutter Priority) mode, M(Manual) mode, Creative Movie mode, Portrait mode, Scenery mode, Sports mode, Night Portrait mode, Close-up mode, Scene mode, My Color mode, Custom                                                                                                                                           |
|                     | Still Image Scene Mode               | Party, Candle Light, Baby1, Baby2, Pet, Sunset, High Sensitivity, Hi-Speed Burst, Flash Burst, Panning, Starry Sky, Fireworks, Beach, Snow, Aerial Photo, Pinhole, Film Grain, High Dynamic(Standard, Art, B&W), Photo Frame, Panorama Assist                                                                                                                                          |
|                     | Advanced Scene Mode                  | Portrait mode : Normal, Soft Skin, Outdoor, Indoor, Creative<br>Scenery mode : Normal, Nature, Architecture, Creative<br>Sports mode : Normal, Outdoor, Indoor, Creative<br>Close-up: Flower, Food, Objects, Creative<br>Night Portrait : Night Portrait, Night Scenery, Illuminations, Creative                                                                                       |
|                     | Movie Scene Mode                     | Portrait, Scenery, Low Light, Flower, Intelligent AUTO, Soft Skin, Food, Objects, Party, Candle Light, Sunset, High Sensitivity, Panning, Beach, Snow, Aerial Photo, Pinhole, Film Grain, Creative Movie(P, S, A, M) mode                                                                                                                                                              |
|                     | Continuous Shooting Mode             | Full-Resolution Image, 2.3 frames/sec<br>Max. 5 images (Standard mode), Max 3 images (Fine Mode)<br>High-speed Burst Mode:<br>approx. 10 frames/sec (recorded in 3M for 4:3, 2.5M for 3:2, 2M for 16:9)(Speed Priority)<br>approx. 6 frames/sec (recorded in 3M for 4:3, 2.5M for 3:2, 2M for 16:9)(Image Priority)                                                                    |
|                     | Flash Burst Continuous Shooting Mode | Max. 5 images (Standard mode)                                                                                                                                                                                                                                                                                                                                                          |
|                     | Motion Picture Recording             | <b>4:3</b><br>VGA: 640 x 480 pixels, 30fps (Motion JPEG)<br>QVGA: 320 x 240 pixels, 30 fps (Motion JPEG)<br>-----<br><b>16:9</b><br>WVGA: 848 x 480 pixels, 30 fps (Motion JPEG)<br>-----<br><b>HD Movie</b><br>1280x720,<br>NTSC Mode: NTSC model: 60p(CCD output is 30p) / PAL model: 50p(CCD output is 25p)<br>(AVCHD Lite, SH: 17Mbps / H:13Mbps / L:9Mbps ) / 30fps (Motion JPEG) |
|                     | Exposure                             | Program AE, Aperture Priority AE, Shutter Priority AE, Manual, Program Shift(Program AE mode)                                                                                                                                                                                                                                                                                          |
|                     | Exposure Compensation                | 1/3 EV step, +/-2 EV                                                                                                                                                                                                                                                                                                                                                                   |
|                     | Backlight Compensation               | Yes (only in Intelligent AUTO mode)                                                                                                                                                                                                                                                                                                                                                    |
| Exposure Parameters | Auto (AE) Bracketing                 | +/- 1/3 EV ~1EV step, 3 frames                                                                                                                                                                                                                                                                                                                                                         |
|                     | Light Metering                       | Intelligent Multiple / Center Weighted / Spot                                                                                                                                                                                                                                                                                                                                          |
|                     | ISO Sensitivity                      | Auto / 80 / 100 / 200 / 400 / 800 / 1600<br>High Sensitivity (ISO 1600-6400)                                                                                                                                                                                                                                                                                                           |
|                     | Max Auto ISO Setting                 | Yes                                                                                                                                                                                                                                                                                                                                                                                    |
|                     | Aspect Ratio                         | 4:3 / 3:2 / 16:9                                                                                                                                                                                                                                                                                                                                                                       |
| Image Parameters    | Still Picture Recording              | <b>4:3</b><br>4000x3000(12M) / 3264x2448(8M EZ) / 2560x1920(5M EZ) / 2048x1536(3M EZ) / 1600x1200(2M EZ) / 640x480(0.3M EZ)                                                                                                                                                                                                                                                            |

|          |         |                                     |                                                                                                                                                                                                                                                                               |
|----------|---------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | Others  |                                     | <b>3:2</b><br>4000 x 2672(10.5M) / 3264 x 2176 (7M EZ) / 2560 x 1712 (4.5M EZ) / 2048 x 1360 (2.5M EZ)                                                                                                                                                                        |
|          |         |                                     | <b>16:9</b><br>4000 x 2248(9M) / 3264 x 1840 (6M EZ) / 2560 x 1440 (3.5M EZ) / 1920 x 1080 (2M EZ)                                                                                                                                                                            |
|          |         | Image Quality                       | Fine / Standard / RAW / RAW+JPEG                                                                                                                                                                                                                                              |
|          |         | White Balance                       | Auto / Daylight / Cloudy / Shade / Flash / Halogen / Color Temperature / White Set 1 / White Set 2<br>(Selectable at Portrait, Soft Skin, Sports, Baby, Pet, High Sensitivity, Hi-Speed Burst, Pinhole, Panorama Assist mode )                                                |
|          |         | Quick Menu                          | Yes                                                                                                                                                                                                                                                                           |
|          |         | Color Mode / Color Effect           | Black & White, Sepia, Cool, Warm                                                                                                                                                                                                                                              |
|          |         | Real-time histogram                 | Yes                                                                                                                                                                                                                                                                           |
|          |         | Composition Guide line              | Yes (2 pattern)                                                                                                                                                                                                                                                               |
|          |         | Auto Review                         | 1sec, 2sec, Hold, Zoom                                                                                                                                                                                                                                                        |
|          |         | Review                              | Yes                                                                                                                                                                                                                                                                           |
|          |         | Zoom Resume                         | Yes                                                                                                                                                                                                                                                                           |
|          |         | Optical Zoom in Motion Picture      | Yes                                                                                                                                                                                                                                                                           |
|          |         | Macro Zoom                          | Yes                                                                                                                                                                                                                                                                           |
|          |         | Orientation Detector                | Yes                                                                                                                                                                                                                                                                           |
|          |         | Scene Mode Help Screen              | Yes                                                                                                                                                                                                                                                                           |
|          |         | Self Timer                          | 2sec / 10sec / 10sec[3 pictures]                                                                                                                                                                                                                                              |
|          |         | Focus Icon Select                   | Yes                                                                                                                                                                                                                                                                           |
|          |         | Playback Mode                       | Normal Playback, Slideshow, Category Playback, Favorites Playback, Mode Play                                                                                                                                                                                                  |
| Playback | Display | Thumbnails / Zoomed Playback        | 12,30-thumbnails / Max 16x                                                                                                                                                                                                                                                    |
|          |         | Calendar Display                    | Yes                                                                                                                                                                                                                                                                           |
|          |         | Set Favorites                       | Yes                                                                                                                                                                                                                                                                           |
|          |         | Playback Motion Picture             | Yes (AVCHD Lite / Motion JPEG)                                                                                                                                                                                                                                                |
|          |         | Slideshow Mode                      | All / Still Images Only / Motion Picture Only / Category / Favorites<br>BGM Effect (Natural / Slow / Swing / Urban / OFF)                                                                                                                                                     |
|          |         | Show Histogram                      | Yes                                                                                                                                                                                                                                                                           |
|          |         | Show Highlights                     | Yes                                                                                                                                                                                                                                                                           |
|          |         | Delete Image                        | Single / Multi / All / All except Favorites                                                                                                                                                                                                                                   |
|          | Delete  | DPOF Print Setting / Set Protection | Yes / Yes                                                                                                                                                                                                                                                                     |
|          |         | Resize / Trim / Leveling            | Yes / Yes / Yes                                                                                                                                                                                                                                                               |
|          |         | Copy / Title Edit / Text Stamp      | Yes / Yes / Yes                                                                                                                                                                                                                                                               |
|          |         | PictBridge Support                  | Single / Multi / All / Favorites / DPOF                                                                                                                                                                                                                                       |
|          | Edit    | OSD language                        | English, German, French, Italian, Spanish, Polish, Czech, Hungarian,<br>Russian, Chinese(Traditional),Chinese(Simplified),<br>Netherlandic, Thai, Korean, Turkish, Portuguese, Arabic,<br>Persian, Japanese, Swedish, Danish, Finnish<br>*varies depending on the sales area. |
|          |         |                                     |                                                                                                                                                                                                                                                                               |
| Setup    |         | Travel Date / World Time            | Yes / Yes                                                                                                                                                                                                                                                                     |
|          |         |                                     |                                                                                                                                                                                                                                                                               |

|               |                         |                               |                                                                                                                                                  |
|---------------|-------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Others</b> | <b>Monitor</b>          | <b>LCD Monitor</b>            | 2.7" TFT Screen LCD Display (230K dots)<br>Field of View : approx. 100%<br>AUTO Power LCD mode, Power LCD mode                                   |
|               | <b>Flash</b>            | <b>Built-in-Flash</b>         | Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off<br>0.3 - 8.5m (Wide/ISO Auto), 1.0 - 5.4m (Tele/ISO Auto)      |
|               | <b>Media</b>            | <b>Recording Media</b>        | Built-in Memory, SD Memory Card, SDHC Memory Card                                                                                                |
|               |                         | <b>Built-in-Memory</b>        | Approx. 40MB                                                                                                                                     |
|               | <b>Audio</b>            | <b>Microphone / Speaker</b>   | Stereo(Dolby® Digital Stereo Creator) / Yes                                                                                                      |
|               | <b>Interface</b>        | <b>Interface</b>              | AV Output (NTSC/PAL, NTSC only for N. America), mini HDMI, USB2.0 High speed, DC Input                                                           |
|               |                         | <b>HDMI output</b>            | Video: Auto / 1080i / 720p / 480p(576p for PAL)<br>Audio: Dolby® Digital Stereo Creator                                                          |
|               | <b>Power</b>            | <b>Power</b>                  | Li-ion Battery Pack (7.2V, 710mAh) (Included)<br>AC Adaptor (Input: 110-240V AC) (Optional)                                                      |
|               |                         | <b>Battery life (approx.)</b> | 470 pictures (CIPA Standard)                                                                                                                     |
|               | <b>Standard Package</b> | <b>Included Software</b>      | PHOTOfunSTUDIO 4.0 HD Edition<br>ArcSoft (MedialImpression / Panorama Maker), QuickTime                                                          |
|               |                         | <b>Standard Accessories</b>   | Battery Charger, Battery Pack, AV Cable, USB Cable, Shoulder Strap, CD-ROM, Lens hood, Lens hood adaptor<br>*Varies depending on the sales area. |