



# LUMIX Digital Underwater Camera DMC-FT30

|                |   |   |   |
|----------------|---|---|---|
| Metrics        |   | Dimensions (W x H x D)  | 103.7 x 58.3 x 19.7 mm  |
|                |   | Dimensions (W x H x D)  | (4.08 x 2.30 x 0.77 inch)   |
|                |   | Weight  | Approx. 125g without Battery and SD Memory Card (0.28 lb)             |
|                |   | Weight  | Approx. 144g with Battery and SD Memory Card (0.32 lb)                |
| Optics         | Pixels  | Camera Effective Pixels   | 16.1 Megapixels   |
|                | Sensor  | Sensor Size / Total Pixels / Filter   | 1/2.33-inch CCD Sensor / 16.6 Total Megapixels / Primary Color Filter |
|                | Lens  | Aperture  | F3.9 - 5.7 / 2-step (F3.9 / 9.0(W), F5.7 / 13.0(T))                   |
|                |   | Optical Zoom  | 4x  |
|                |   | Focal Length  | f=4.5 - 18.0mm (25 - 100mm in 35mm equiv.)                            |
|                |   | Focal Length  | (29-108mm in 35mm equiv. in video recording)                          |
|                |   | Extra Optical Zoom (EZ)   | 5.1x (4:3 / 10M), 7.2x (4:3 / 5M), 9.0x (under 3M)                    |
|                |   | Intelligent Zoom  | 8x  |
|                |   | Lens  | LUMIX DC VARIO  |
|                |   | Lens  | 11 elements in 10 groups  |
|                |   | Lens  | (5 Aspherical Lenses / 9 Aspherical surfaces / 1 ED Lens)             |
|                |   | 2- Speed Zoom   | -   |
|                | Optical Image Stabilizer/Five Axis Correction | MEGA O.I.S. (On with Active Mode (Only for Motion Picture) /Off) / No                   |   |
|                | Digital Zoom                                  | Max. 4x   |   |
|                | Conversion Lens Compatibility                 | -   |   |
|                | Focus   | Focusing Area   | Normal: Wide 50 cm - infinity / Tele 100 cm - infinity                |
| Focusing Area  |   | ]Macro / Intelligent AUTO/ motion picture: Wide 5 cm - infinity / Tele 100cm - infinity |   |
| AF Assist Lamp |   | Yes (On/Off), LED light in motion picture   |   |
| Focus          |   | Normal, AF Macro, Macro Zoom  |   |

|                     |  |                          |   |
|---------------------|--|--------------------------|---|
|                     |  | Focus                    | Quick AF (Always On), Continuous AF(only for motion picture)  |
|                     |  | Focus                    | AF Tracking   |
|                     |  | AF Metering              | Face / AF Tracking / 23-Area / 1-Area / Spot  |
|                     | Shutter                                      | Shutter Speed            | approx. 8 - 1/1300 sec  |
|                     |  | Shutter Speed            | 15sec / 30sec / 60sec in Sarry Sky mode   |
| Recording           | Finder                                       | Viewfinder               | -   |
|                     | File   | File Format              | Still Image: JPEG(DCF/Exif2.3), DPOF  |
|                     |  | File Format              | Motion picture: MP4   |
|                     | Recording Modes                              | Mode Dial / Mode Button  | Intelligent AUTO, Normal Picture, Creative Control, Sports, Snow, Beach&Surf, Advanced Underwater,  |
|                     |  | Mode Dial / Mode Button  | Panorama Shot, SCN  |
|                     |  | Creative Control mode    | Expressive, Retro, High Key, Low Key, Sepia, Dynamic Monochrome, Impressive Art, High Dynamic, Cross Process, Toy Effect, Miniature Effect, One Point Color |
|                     |  | Still Image Scene Mode   | Portrait, Soft Skin, Scenery, Night Portrait, Night Scenery, Food, Baby1, Baby2, Pet, Sunset, High Sensitivity, Starry Sky, Glass Through                   |
|                     |  | Continuous Shooting Mode | Full-Resolution Image, approx. 1.3 frames/sec   |
|                     |  | Continuous Shooting Mode | High-speed Burst Mode: approx. 8 frames/sec   |
|                     |  | Continuous Shooting Mode | (recorded in 3M for 4:3, 2.5M for 3:2, 2M for 16:9, 2.5M for 1:1)   |
|                     | Motion Picture Recording (*2)                | HD Video                 | 1280 x 720 pixels, 25fps (HD: 10Mbps / MP4)   |
|                     |  | STD Video                | 640 x 480 pixels, 25fps (VGA: 4Mbps / MP4)  |
|                     |  | High Speed Video         | -   |
|                     | Continuous recordable time (motion pictures) | AVCHD                    | -   |
|                     |  | MP4                      | approx. 100 min (HD)  |
|                     | Actual recordable time (motion pictures)     | AVCHD                    | -   |
|                     |  | MP4                      | approx. 50 min (HD)   |
| Exposure Parameters | Exposure                                     | Auto(Program AE)         |   |
|                     | Exposure Compensation                        | 1/3 EV step, +/-2 EV     |   |

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|-----------------|--|--|--|
|                 | Auto (AE) Bracketing                         | 1/3 -1EV step, Max +/-1EV, 3 frames  |  |
|                 | Light Metering                               | Intelligent Multiple   |  |
|                 | ISO Sensitivity                              | I.ISO / 100 / 200 / 400 / 800 / 1600   |  |
|                 | ISO Sensitivity                              | High Sensitivity mode (ISO 1600-6400)  |  |
| Picture Quality | Still Picture Recording                      | [4:3] 4608x3456 (16M) / 3648x2736 (10M EZ) / 2560x1920 (5M EZ) / 2048x1536 (3M EZ) / 1280x960 (1M EZ) /640x480 (0.3M EZ) |  |
|                 | Still Picture Recording                      | [3:2] 4608x3072 (14M)  |  |
|                 | Still Picture Recording                      | [16:9] 4608x2592 (12M)   |  |
|                 | Still Picture Recording                      | [1:1] 3456x3456 (12M)  |  |
|                 | Image Quality                                | -  |  |
|                 | White Balance                                | Auto / Daylight / Cloudy / Shade / Incandescent / White Set  |  |
|                 | Photo Style / Film Mode                      | -  |  |
|                 | Color Mode / Color Effect / My color         | Color Mode : Standard, Black&White, Sepia, Vivid( Normal only), Happy (only in iA Mode)                                  |  |
|                 | Picture Adjustment                           | -  |  |
|                 | 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   |  |
|                 | Self Shot Mode                               | -  |  |
| Playback        | Display                                      | Playback Mode  | All,, Slideshow, Filtering Play (Picture Only, Video Only, Category Selection, Select Date, Favorites), Calendar |
|                 |  | Thumbnails / Zoomed Playback   | 12,30-thumbnails / Yes   |
|                 |  | Calendar Display / Dual- Image   | Yes / No   |

|                  |                      |   |  |
|------------------|----------------------|---|--|
|                  |                      | Playback  |  |
|                  |                      | Set Favorites / Rotate Image  | Yes / No   |
|                  |                      | Show Histogram  | -  |
|                  |                      | Show Highlights   | -  |
|                  |                      | DPOF Print Setting / Set Protection   | Yes / Yes  |
|                  | Edit                 | Retouch   | Creative Retouch / Auto Retouch / Color Reproduction   |
|                  |                      | Resize / Cropping / Aspect Conv. / Leveling   | Yes / Yes / No / No  |
|                  |                      | Copy / Title Edit / Text Stamp  | Yes / No / Yes   |
|                  |                      | Cut Animation   | -  |
|                  |                      | Video Divide  | Yes  |
|                  |                      | PictBridge Support  | Single / Multi / All / Favorites / DPOF  |
| Setup            |                      | OSD language  | Japanese, English, German, French, Italian, Spanish, Chinese (Traditional), Chinese (Simplified) |
| Others           | Monitor              | LCD Monitor   | 2.7"(6.75cm) TFT Screen LCD Display (230K dots)  |
|                  |                      | LCD Monitor   | Field of View : approx. 100%   |
|                  |                      | LCD Monitor   | AUTO Power Monitor mode, Power Monitor mode, High Angle mode                                     |
|                  | Flash                | Built- in- Flash  | Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off,               |
|                  |                      | Built- in- Flash  | 0.3 - 4.4m (Wide / i.ISO), 1.0 - 3.0m (Tele/ i.ISO)  |
|                  | Media                | Recording Media   | Built-in Memory, SD Memory Card, SDHC Memory Card, SDXC Memory Card                              |
|                  |                      | Built- in- Memory   | Approx.220MB   |
|                  | Audio                | Microphone / Speaker  | Mono / Mono  |
|                  | Interface            | Interface   | AV Output (PAL/NTSC), USB(AV/USB Multi)  |
|                  | Power                | Power   | Li-ion Battery Pack (3.6V / 680mAh / 2.5Wh)  |
|                  |                      | Power   | AC Adaptor (Input: 110-240V AC)(Optional)  |
|                  |                      | Battery life (approx.)  | 250 pictures (CIPA Standard)*1   |
| Standard Package | Included Software    | PHOTOfunSTUDIO 9.0 SE   |  |
|                  | Standard Accessories | Battery Pack, Battery Charger, AC Cable, USB Cable, Hand Strap, Silicone Jacket, CD-ROM |  |

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| NOTE | *1  |
| NOTE | Recording conditions by CIPA standard   |
| NOTE | - CIPA is an abbreviation of [Camera & Imaging Products Association].   |
| NOTE | - Temperature: 23 oC (73.4 oF)/Humidity: 50%RH when LCD monitor is on.  |
| NOTE | - Using a Panasonic SD Memory Card (32 MB).   |
| NOTE | - Using the supplied battery.   |
| NOTE | - Starting recording 30 seconds after the camera is turned on. (When the optical image stabilizer function is set to [ON].)   |
| NOTE | - Recording once every 30 seconds with full flash every second recording.   |
| NOTE | - Rotating the zoom lever from Tele to Wide or vice versa in every recording.   |
| NOTE | - Turning the camera off every 10 recordings and leaving it until the temperature of the battery decreases.   |
| NOTE | *2  |
| NOTE | - These are standard times taken at a temperature of 23 oC (73.4 oF) and a humidity of 50%RH.   |
| NOTE | - The time available for recording varies depending on the environment, the interval between recordings, and the manner of use.   |
| NOTE | - 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. |
| NOTE | - Use a card with SD Speed Class with "Class 4" or higher when recording motion pictures.   |
| NOTE | SD speed class is the speed standard regarding continuous writing.  |
| NOTE | - Maximum time to record motion pictures continuously with [MP4] is 29 minutes 59 seconds or up to 4 GB.  |