

# 2010 LUMIX® F3 DIGITAL CAMERA



#### 28MM WIDE LENS WITH 4X OPTICAL ZOOM

Enjoy the benefits of a wide angle lens without giving up the performance of a zoom.



#### AUTO SCENE MODE

Recognizes specific scene elements to capture the best photos.

#### DIGITAL IMAGE STABILIZER

Enhanced technology prevents blurring caused by vibration.

- 12.1 Megapixel
- Intelligent Scene Selector
- HD Movie Recording
- Simple, Easy Operation

**Panasonic** LUMIX®

# 2010 LUMIX® F3 Digital Camera Specifications

| ITEMS                         |  | DIMENSIONS (W x H x D)   |  |
|-------------------------------|--|--|--|
| Weight                        |  | 98.4 x 55.2 x 24.0 mm (incl. protrusions: 21.3 mm, 3.87 x 2.17 x 0.94 in (incl. protrusions: 0.84 in))<br>Approx. 147g with Battery and SD Memory Card (0.52 lb) Approx. 125g without Battery and SD Memory Card (0.27 lb)   |  |
| OPTICS                        | Camera Effective Pixels  | 14.1 Megapixels  |  |
|                               | Sensor Size / Total Pixels / Filter  | 1/2.33-inch/14.5 Total Megapixels/Primary Color Filter   |  |
|                               | Aperture   | F2.8-8.9/2-Step (W/F6.9-20 (T))  |  |
|                               | Optical Zoom   | 4x   |  |
|                               | Focal Length   | 1-5.25mm (28-140mm in 35mm eqval)  |  |
|                               | Extra Optical Zoom (EZ)  | 5.9x (4.3/10M), 6.4x (4.3/5M), 10.5x (under 3M)  |  |
|                               | Intelligent Zoom   | ---  |  |
|                               | Lens   | LUMIX DC VARIO 6 elements in 5 groups (3 Aspherical Lenses/5 Aspherical Surfaces)  |  |
|                               | 2-Speed Zoom   | ---  |  |
|                               | Optical Image Stabilizer   | MEGA O.I.S. (Off/Auto/Mode1/Mode2)   |  |
| Conversion Lens Compatibility | ---  |  |  |
| Digital Zoom                  | 4x (Max. 20.0 x combined with Optical Zoom without Extra Optical Zoom) (Max. 42.0 x combined with Extra Optical Zoom)  |  |  |
| Focusing Area                 | Normal: Wide 50 cm - infinity/Tele 100 cm - infinity, Macro/Intelligent AUTO: Wide 5 cm - infinity/Tele 100cm - infinity                                     |  |  |
| Focus Range Display           | Yes  |  |  |
| AF Assist Lamp                | Yes  |  |  |
| Focus                         | Normal/Macro, Zoom/Macro, Quick AF (Always On)   |  |  |
| AF Metering                   | Face/9 pt/1pt  |  |  |
| Shutter Speed                 | Still: approx. 8 - 1/1600 sec; Slamy Sky Mode: 15, 30, 60 sec  |  |  |
| Shutter Interval              | approx. 1.2 sec  |  |  |
| Finder                        | Viewfinder   |  |  |
| IA                            | Face Recognition   | ---  |  |
|                               | Optical Image Stabilizer   | Photo & Movie  |  |
|                               | Intelligent ISO Control  | Photo  |  |
|                               | Face Detection   | Photo  |  |
|                               | Intelligent Scene Selector   | Photo (Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro)  |  |
|                               | Intelligent Exposure   | ---  |  |
|                               | AF Tracking  | ---  |  |
|                               | Digital Red Eye Correction (Red-Eye Removal)   | Photo  |  |
|                               | IA Direct Button   | Yes  |  |
|                               | Intelligent Resolution Technology  | ---  |  |
| File                          | File Format  | Still Image: JPEG (DCF/Exif 2.21); Motion picture: QuickTime Motion JPEG   |  |
|                               | AVCHD Lite REC   | ---  |  |
|                               | Mode Switch  | [Recording]/[Playback]   |  |
|                               | One-Touch Movie Button   | ---  |  |
|                               | Mode Dial/Mode Button  | Intelligent AUTO, Normal Picture, SCN, My SCN, Motion Picture  |  |
|                               | Still Image Scene Mode   | Portrait, Self Portrait, Scenery, Sports, Night Portrait, Night Scenery, Food, Party, Candle Light, Baby1, Baby2, Pet, Sunset, High sensitivity, Hi-Speed Burst, Flash Burst, Starry Sky, Fireworks, Beach, Snow, Aerial photo, Film Grain, Photo Frame  |  |
|                               | Movie Scene Mode   | ---  |  |
|                               | Continuous Shooting Mode   | High-speed Burst Mode: approx. 4.6 frames/sec (image priority) recorded in 3M for 4.3, 2.5M for 3.2, 2M for 16.9   |  |
|                               | Unlimited Consecutive Shooting   | 1.5 frames/sec   |  |
|                               | Flash Burst Continuous Shooting Mode   | Max. 5 images (Standard mode)  |  |
| Recording Modes               | Motion Picture Recording   | 4:3<br>VGA 640 x 480 pixels, 30fps (Motion JPEG) DVGA 320 x 240 pixels, 30 fps (Motion JPEG)<br>WVGA 848 x 480 pixels, 30 fps (Motion JPEG)<br>1280x720 pixels, 30fps (Motion JPEG)  |  |
|                               | HD Movie   | ---  |  |
|                               | AVCHD Lite with Picture Quality set to [SH]  | ---  |  |
|                               | MOTION JPEG with Picture Quality set to [HD]   | ---  |  |
|                               | Actual Recordable Time (Motion Pictures)   | ---  |  |
|                               | AVCHD Lite with Picture Quality set to [SH]  | ---  |  |
|                               | MOTION JPEG with Picture Quality set to [HD]   | ---  |  |
|                               | Exposure Parameters  | Program AE<br>Exposure Compensation: 1/3 EV step, +/- 2 EV<br>Backlight Compensation: Yes (only in Intelligent AUTO mode)<br>Auto (AE) Bracketing: ---<br>Multi-Aspect: ---<br>Light Metering: Intelligent Multiple<br>ISO Sensitivity: ISO/80/100/200/400/800/1600/High Sensitivity (ISO 1600-6400)                   |  |
|                               | Max Auto ISO Setting   | 4:3/3.2/16.9   |  |
|                               | Aspect Ratio   | 4:3/3.2/16.9   |  |
| Image Parameters              | Still Picture Recording  | 4:3<br>4320x3240(14M)/3848x2736(10M) EZ/2560x1200(5M) EZ/2048x1536(3M) EZ/640x480(0.3M) EZ<br>3:2<br>4320 x 2880 (12.5M)<br>16.9<br>4320 x 2432 (10.5M)  |  |
|                               | Image Quality  | ---  |  |
|                               | White Balance  | Auto/Daylight/Cloudy/Shade/Fluorescent/White Set (Selectable at Portrait, Self-Portrait, Transform, Self-Portrait, Sports, Baby, Pet, High Sensitivity, Highspeed Burst, Photo Frame)  |  |
|                               | Quick Menu   | Yes  |  |
|                               | Color Mode/Color Effect  | Standard, Vivid, Natural, Black & White, Sepia, Cool, Warm   |  |
|                               | Picture Adjustment   | ---  |  |
|                               | Still Image with Audio Recording   | ---  |  |
|                               | GPS  | ---  |  |
|                               | Flip Animation   | ---  |  |
|                               | Real-time Histogram  | ---  |  |
| PLAYBACK                      | Display  | Normal Playback, Slideshow, Category Playback, Favorites Playback<br>12.30-thumbnails/Max 16x<br>Yes/No<br>Yes/No<br>Yes (Motion JPEG)<br>All/Category/Favorites/BSM Effect (Natural/Slow/Swing/Urban/Off)<br>---  |  |
|                               | Delete   | Delete Image: Single/Multi/All except Favorites<br>DPOF Print Setting/Set Protection: Yes/Yes<br>Resize/Trim/Aspect Conv./Leveling: Yes/Yes/No/No<br>Copy/Title Edit/Text Stamp: Yes/No/Yes (only Baby, Pet, Travel)<br>Cut Animation: ---<br>Video Divide: ---<br>Pic/Bridge Support: Single/Multi/All/Favorites/DPOF |  |
|                               | Edit   | OSD Language: English/Spanish<br>Movie REC Guide: ---<br>Wind-Cut in Motion Picture: ---<br>Travel Date/World Time: Yes/Yes  |  |
|                               | Monitor  | LCD Monitor: 2.7" TFT Screen LCD Display (230K dots); Field of View: approx. 100%; AUTO Power LCD mode, Power LCD mode, High Angle mode  |  |
|                               | Tough  | Touch Panel: ---<br>Water Proof: ---<br>Dust Proof: ---<br>Freeze Proof: ---<br>Shock Proof: ---   |  |
|                               | Flash  | Built-in Flash: Auto, Auto/Red-eye Reduction, Forced On, Slow Sync, Red-eye Reduction, Forced Off; 0.6 - 6.8m (Wide ISO Auto), 1.0 - 2.7m (Tele ISO Auto)<br>External Flash: ---   |  |
|                               | Media  | Recording Media: Built-in Memory, SD Memory Card, SDHC Memory Card, SDXC Memory Card<br>Built-in Memory: Approx. 40MB<br>Microphone/Speaker: Mono/Yes  |  |
|                               | Audio  | Interface: AV Output (NTSC), USB2.0 Full-speed, DC Input (requires optional DC Coupler)  |  |
|                               | Network  | Viera Link: ---<br>HDMI output: ---  |  |
|                               | Power  | Power: ID-Security Li-ion Battery Pack (3.6V, Minimum: 740mAh) (included); AC Adaptor (Input: 110-240V AC) (Optional)<br>Battery life (approx.): 310 pictures (CIPA Standard)*   |  |
| Standard Package              | Included Software: PHOTO-STUDIO 5.0 Edition, QuickTime, Adobe Reader<br>Battery Charger, Battery Pack, Battery Case, AV Cable, USB Cable, Hand Strap, CD-ROM |  |  |

NOTE:  
 Recording conditions by CIPA standard  
 \* CIPA is an abbreviation of (Camera & Imaging Products Association)  
 • Temperature: 23°C (73.4°F)/Humidity: 50% when LCD Monitor is on.  
 • Using a Panasonic SD Memory Card (32 MB).  
 • Using the supplied battery.  
 • Starting recording 30 seconds after the camera is turned on. (When the optical image stabilizer function is set to [AUTO].)  
 • Recording once every 30 seconds with full flash every second recording.  
 • Starting recording 30 seconds after the camera is turned on. (When the optical image stabilizer function is set to [AUTO].)  
 • Rotating the zoom lever from Tele to Wide or vice versa in every recording.

• Turning the camera off every 10 recordings and leaving it until the temperature of the battery decreases.  
 • The number of recordable pictures decreases in Auto Power LCD mode and Power LCD Mode.  
 • These are standard times taken at a temperature of 23°C (73.4°F) and a humidity of 50%.  
 • The time available for recording 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.  
 • Motion picture recorded continuously in [MOTION JPEG] is up to 2 GB. Only the maximum recordable time for 2 GB is displayed on the screen.\*