

2010 LUMIX® ZR3 DIGITAL CAMERA



ULTRA COMPACT 25MM LENS AND 10X INTELLIGENT ZOOM

Easily bring your images closer without losing picture quality in an ultra compact camera.



HD MOVIE RECORDING IN AVCHD LITE FORMAT

Record HD quality movies.

POWER O.I.S.

Enhanced technology to further prevent blurring caused by vibration.

- 14.1 Megapixel
- LEICA DC VARIO-ELMAR Lens
- Super Compact Camera
- 8x Optical Zoom
- 10x Intelligent Zoom
- Optical Zoom in Movie Recording

Panasonic LUMIX®

2010 LUMIX® ZR3 Digital Camera Specifications

		DMC-ZR3/ZR3		
METRICS	Dimensions (W x H x D)	97.8 x 54.8 x 26.0 mm (3.85 x 2.15 x 1.02 in)		
	Weight	Approx. 159g with Battery and SD Memory Card (0.35 lb); Approx. 137g without Battery and SD Memory Card (0.30 lb)		
OPTICS	Pixels	Camera Effective Pixels 14.1 Megapixels		
	CCD	Sensor Size/Total Pixels/Filter 1/2.33-type / 14.5 Total Megapixels / Primary Color Filter		
	Lens	Aperture	F3.3-5.9/2-Step (F3.3-10 [W]/F5.9-18 [T])	
		Optical Zoom	8x	
	Focal Length	f=4.5-36mm (25-200mm in 35mm equiv.)		
	Extra Optical Zoom (EZ)	9.5x (4.3 / 10M), 11.3x (4.3 / 7M), 13.5x (4.3 / 5M), 16.9x (under 3M)		
	Intelligent Zoom	10x		
	Lens	LEICA DC VARIO-ELMAR, 9 elements in 7 groups; (4 Aspherical Lenses / 6 Aspherical Surfaces)		
	2-Speed Zoom	-		
	Optical Image Stabilizer	Power O.I.S. (Off / Auto / Mode1 / Mode2)		
	Conversion Lens Compatibility	4x (Max. 32.0 x combined with Optical Zoom without Extra Optical Zoom) / (Max. 67.5x combined with Extra Optical Zoom)		
	Digital Zoom	-		
Focus	Focusing Area	Normal: Wide 50 cm - infinity / Tele 200 cm - infinity, Macro / Intelligent AUTO / Clipboard: Wide 3 cm - infinity / Tele 100cm - infinity		
	Focus Range Display	Yes		
	AF Assist Lamp	Yes		
Shutter	Focus	Normal / Macro, Zoom Macro, Quick AF On/Off (On in Intelligent Auto), Continuous AF On/Off, AF Tracking		
	AF Metering	Face / AF Tracking / 11pt / 1pt HS / 1pt / Spot		
Finder	Shutter Speed	Still: 8 - 1/2000 sec; Starry Sky Mode: 15, 30, 60sec.		
	Shutter Interval	approx. 1.0 sec		
VIEWFINDER	Viewfinder	-		
	Face Recognition	Photo		
RECORDING	Optical Image Stabilizer	Photo & Movie		
	Intelligent ISO Control	Photo		
	Face Detection	Photo & Movie		
	Intelligent Scene Selector	Photo (Portrait, Scenery, Night Portrait, Night Scenery, Sunset, Macro) & Movie (Portrait, Scenery, Low Light, Macro)		
	Intelligent Exposure	Photo & Movie		
	AF Tracking	Photo		
	Digital Red-Eye Correction (Red-Eye Removal)	Photo		
	IA Direct Button	-		
	Intelligent Resolution Technology	Photo & Movie		
	File	File Format	Still Image: JPEG/DCF/Exif(2.21); Image with Audio: JPEG (DCF / Exif2.21) + QuickTime; Motion picture: AVCHD Lite / QuickTime Motion JPEG	
	AVCHD Lite REC	NTSC		
	Interface	Mode Switch	[Recording] / [Playback]	
Recording Modes	One-Touch Movie Button	Yes		
	Mode Dial/Mode Button	Intelligent Auto, Normal Picture, SCN, My SCN 1, My SCN 2, Clipboard		
Movie Scene Mode	Still Image Scene Mode	Portrait, Soft Skin, Transform, Self-Portrait, Scenery, Panorama Assist, 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		
	Movie Scene Mode	Portrait, Soft Skin, Transform, Self-Portrait, Scenery, Low Light, Food, Party, Candle Light, Sunset, Beach, Snow, Aerial, Pinhole, Film Grain, Underwater, High Sensitivity, High Dynamic(Standard, Art, B&W), (Activated by selecting Still Picture Scene Mod)		
Continuous Shooting Mode	Unlimited Consecutive Shooting	Full-Resolution Image, 1.8 frames/sec; Max 5 images (Standard mode); Max 3 images (Fine Mode); High-speed Burst Mode: approx. 6.0 frames/sec (image priority); approx. 10 frames/sec (speed priority); recorded in 3M for 4:3, 2.5M for 3:2, 2M for 16:9		
	Flash Burst Continuous Shooting Mode	Max 5 images (Standard mode)		
Motion Picture Recording 4:3	16:9	VGA: 640 x 480 pixels, 30fps (Motion JPEG); OVGA: 320 x 240 pixels, 30 fps (Motion JPEG)		
	HD Movie	WVGA: 848 x 480 pixels, 30 fps (Motion JPEG)		
Continuous Recordable Time (Motion Pictures)	AVCHD Lite with Picture Quality Set to [SH]	1280x720 pixels; 60p(CCD output is 30p); (AVCHD Lite, SH: 17Mbps / H:13Mbps / L:9Mbps) / 30fps (Motion JPEG)		
	MOTION JPEG with Picture Quality Set to [HD]	Approx. 110 min		
Actual Recordable Time (Motion Pictures)	AVCHD Lite with Picture Quality Set to [SH]	Approx. 110 min		
	MOTION JPEG with Picture Quality Set to [HD]	Approx. 55 min		
Exposure Parameters	Exposure	Program AE		
	Exposure Compensation	1/3 EV step, +/-2 EV		
Multi-Aspect	Backlight Compensation	Yes (only in Intelligent AUTO mode)		
	Auto (AE) Bracketting	+/- 1/3 EV -1EV step, 3 frames		
Light Metering	Light Metering	Intelligent Multiple		
	ISO Sensitivity	Auto / 80 / 100 / 200 / 400 / 800 / 1600; High Sensitivity (ISO 1600-6400)		
Image Parameters	Max. Auto ISO Setting	-		
	Aspect Ratio	4:3 / 3:2 / 16:9		
Still Picture Recording	4:3	4320x2240(1.4M) / 3648x2736(1.0M) / 3072x2240(7M) / 2560x1920(5M) / 2048x1536(3M) / 640x480(0.3M)		
	3:2	4320x2880 (12.5M) / 3648x2432 (9M) / 3072x2048 (8M) / 2560x1712 (4.5M) / 2048x1360 (2.5M) / 640x424 (0.3M)		
Image Quality	16:9	4320x2432 (10.5M) / 3648x2056 (7.5M) / 3072x1728 (5.5M) / 2560x1440 (3.5M) / 1920x1080 (2M) / 640x360 (0.2M)		
	White Balance	Auto / Daylight / Cloudy / Shade / Halogen / White Set; (Selectable at Portrait, Soft Skin, Transform, Self-Portrait, Panorama Assist, Sports, Baby, Pet, High Sensitivity, Highspeed Burst, Pinhole, Photo Frame, High Dynamic)		
Quick Menu	Color Mode/Color Effect	Standard, Vivid, Natural, Black & White, Sepia, Cool, Warm, Happy (only in IA Mode)		
	Picture Adjustment	-		
Others	Still Image with Audio Recording	5 sec		
	GPS	-		
PLAYBACK	Flip Animation	-		
	Real-Time Histogram	Yes		
	Composition Guideline	Yes (2 pattern)		
	Auto Review	1sec, 2sec, Hold		
	Easy Zoom/Zoom Resume	No / No		
	Optical Zoom in Motion Picture	Yes		
	Macro Zoom	Yes		
	Orientation Detector	Yes		
	Scene Mode Help Screen	Yes		
	Self Timer	2sec / 10sec		
	Focus Icon Select	Yes (in Face Recognition only)		
	Display	Playback Mode	Normal Playback, Slideshow, Category Playback, Travel Playback, Mode Playback, Favorites Playback	
Thumbnails/Zoomed Playback		12.30-thumbnails / Max 16x		
Delete	Calendar Display/Dual-Image Playback	Yes / No		
	Set Favorites/Rotate Image	Yes / No		
Edit	Playback Still Images with Audio	Yes		
	Playback Motion Picture	Yes (AVCHD Lite / Motion JPEG)		
Slide Show Mode	Show Histogram	All / Still Images Only / Motion Picture Only / Travel / Category / Favorites BGM Effect (Natural / Slow / Swing / Urban / OFF)		
	Show Highlights	Yes		
Delete Image	Delete Image	Single / Multi / All / All except Favorites		
	DPOF Print Setting/Set Protection	Yes / Yes		
Copy/Title Edit/Text Stamp	Resize/Trim/Aspect Conv./Leveling	Yes / Yes / No / Yes		
	Copy/Title Edit/Text Stamp	Yes / Yes / Yes		
Setup	Out Animation	Yes		
	Video Divide	Yes		
DSD Language	Picture/Edge Support	Single / Multi / All / Favorites / DPOF		
	Movie REC Guide	English/Spanish		
Monitor	Wind-Out in Motion Picture	Yes		
	Travel Date/World Time	Yes / Yes		
TOUGH	LCD Monitor	6.7cm (2.7") TFT Screen LCD Display (230K dots); Field of View : approx. 100% Wide Viewing Angle; AUTO Power LCD mode, Power LCD mode		
	Touch Panel	-		
Flash	Waterproof	-		
	Dustproof	-		
Media	Fireproof	-		
	Shockproof	-		
Audio	Built-in Flash	Auto, Auto/Red-eye Reduction, Forced On, Slow Sync/Red-eye Reduction, Forced Off; 0.6 - 5.3m (Wide/ISO Auto), 1.0 - 2.9m (Tele/ISO Auto)		
	External Flash	-		
Interface	Recording Media	Built-in Memory, SD Memory Card, SDHC Memory Card, SDXC Memory Card		
	Built-in Memory	Approx. 40MB		
Network	Microphone/Speaker	Mono / Yes		
	Interface	AV Output (NTSC), mini HDMI, USB2.0 High speed		
Power	Wi-Fi Link™	Yes		
	HDMI Output	Video: Auto / 1080i / 720p / 480p; Audio: Dolby® Digital Creator		
Standard Package	Battery Life (approx.)	ID-Security Li-ion Battery Pack (3.6V, Minimum: 895mAh) (Included); AC Adaptor (Input: 110-240V AC) (Optional)		
	Included Software	330 pictures (CIPA Standard)		
Standard Accessories	PHOTOonSTUDIO 5.0 HD Edition; QuickTime; Adobe Reader	-		
	Standard Accessories	Battery Charger, Battery Pack, Battery Case, AV cable, USB Cable, Hand Strap, CD-ROM		