

MINOLTA DiMAGE Z1 3.2 MEGAPIXEL DIGITAL CAMERA

Specifications

Number of effective pixels	3.2 million																				
CCD	1/2.7-type interline primary-color CCD Total pixels: 3.3 million																				
Camera sensitivity	Auto and 50,100, 200, and 400 ISO equivalents																				
Focal length	5.8 - 58mm (35mm equivalent: 38 – 380mm)																				
Lens construction	10 elements in 7 groups (includes two elements with three aspheric surfaces)																				
Maximum aperture	f/2.8 – f/3.5																				
Minimum focus distance	Wide: 1.6ft. (0.5m) from front of lens Telephoto: 6.6ft. (2m) from front of lens Wide: 1.9ft. (0.57m) from CCD Telephoto: 6.8ft. (2.07m) from CCD																				
Minimum macro distance	<table><tr><td></td><td><u>Super Macro</u></td><td><u>Standard macro</u></td><td></td></tr><tr><td>Focal length:</td><td>9.7mm*</td><td><u>Wide</u></td><td><u>Telephoto</u></td></tr><tr><td>From front of lens:</td><td>1.6 in. (4 cm)</td><td>3.9 in. (10cm)</td><td>47.2 in. (120cm)</td></tr><tr><td>From CCD:</td><td>4.3 in. (11cm)</td><td>6.7in. (17cm)</td><td>50 in. (127cm)</td></tr><tr><td colspan="4">* at 9.7mm only</td></tr></table>		<u>Super Macro</u>	<u>Standard macro</u>		Focal length:	9.7mm*	<u>Wide</u>	<u>Telephoto</u>	From front of lens:	1.6 in. (4 cm)	3.9 in. (10cm)	47.2 in. (120cm)	From CCD:	4.3 in. (11cm)	6.7in. (17cm)	50 in. (127cm)	* at 9.7mm only			
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Maximum magnification	0.12x (1: 8.33) Equivalent to 0.79x (1: 1.27) in 35mm format																				
Area covered at maximum magnification	1.3 x 1.73 inches (33 x 44mm)																				
LCD monitor	1.5 inch (3.8cm) low-temperature polysilicon TFT color with anti-reflection coating Total number of pixels: 113,000 Automatic monitor amplification																				
Field of view	Viewfinder: Approximately 98% LCD monitor: Approximately 100 %																				
Display-mode switch	Viewfinder display, LCD-monitor display Switch Finder system allows the monitor to be viewed directly or through the viewfinder.																				
Diopter control	– 3 ~ +1m ⁻¹																				
Eye relief	18.8mm																				
Shutter	CCD electronic shutter and mechanical shutter																				
Shutter speed range	4 - 1/1000 second in programmed-AE and aperture-priority modes. 15 - 1/1000 second in shutter-priority and manual exposure modes. 2 - 1/1000 second in auto-recording and Digital Subject Programs Bulb (maximum 30 seconds)																				
Autofocus system	Rapid AF: a combination of a passive AF sensor with the video AF system																				
Autofocus areas	Wide focus area Spot focus areas with Focus Area Selection																				
Focus modes	Single-shot AF, Full-time AF, Manual focus.																				
Focus lock	By pressing shutter-release button partway down.																				
Metering	Multi-segment, Center-weighted, Spot																				
Multi-segment metering	256 segments																				
Exposure modes	Programmed AE, Aperture priority, Shutter priority, Manual																				
Digital Subject Programs	Portrait, Sports action, Landscape, Sunset, Night portrait. Automatic and manual selection.																				
Exposure compensation	±2 EV in 1/3 increments																				

AE lock	By pressing shutter-release button partway down
Flash metering	Pre-flash TTL
Flash range	Wide: Approximately 0.8 – 20 ft. (0.23 – 6.1 m) from CCD Telephoto: Approximately 3.9 – 15.7 ft. (1.2 – 4.8 m) from CCD (Camera sensitivity: auto)
Flash modes	Autoflash, Autoflash with red-eye reduction, Fill flash, Slow-shutter sync. Autoflash not available with aperture priority, shutter priority, and manual exposure modes. Flash cancel by pushing the built-in flash down.
Flash recycling time	Approximately 7 seconds
Flash compensation	± 2 EV in 1/3 increments
Flash-sync speeds	All shutter speeds
External flashes	Auto-flash metering with Program/Maxxum Flash 2500 (D), Program/Maxxum 3600HS (D), Program/Maxxum Flash 5600HS (D)
Continuous advance	<div>- UHS (Ultra High Speed) continuous advance: Approximately ten 1280x960 frames in one second</div> <div>- Standard continuous advance: Approximately 1.5 frames per second</div> <div><i>* Actual speed may vary depending upon the subject and camera settings.</i></div> <div>Approximate number of frames that can be captured at one time with the continuous-advance drive modes:</div> <div><div><div><div><div></div><div><u>UHS continuous advance (1280x960)</u></div></div><div><div>Fine:</div><div>10 frames</div></div><div><div>Standard:</div><div>10 frames</div></div><div><div>Economy:</div><div>10 frames</div></div></div><div><div><div></div><div><u>Standard continuous advance</u></div></div><div><div><div><div><div><u>2048x1536</u></div><div><u>1600x1200</u></div><div><u>1280x960</u></div><div><u>640x480</u></div></div><div><div>Fine</div><div>5 frames</div><div>8 frames</div><div>13 frames</div><div>42 frames</div></div><div><div>Standard</div><div>10 frames</div><div>16 frames</div><div>24 frames</div><div>67 frames</div></div><div><div>Economy</div><div>19 frames</div><div>30 frames</div><div>42 frames</div><div>94 frames</div></div></div><div><i>* Actual number of images may vary depending upon the subject and camera settings.</i></div></div></div></div></div></div>
Progressive Capture	Maximum number of images that can be recorded with the Progressive Capture mode: UHS: 10 frames Standard: 6 frames
Exposure bracketing	Three frame bracket in 1.0, 0.5, 0.3 EV increments
Self-timer	Approximately 10 seconds
Movie	Recording time dependent on memory card capacity, image size, and frame rate. Frame rate: 15 frames per second, 30 frames per second Fast forward and rewind control. With and without monaural audio with playback volume control. Jogging Movie frame capture Night movie (automatic selection or disabled)
White balance control	Automatic, Preset (Daylight, Cloudy, Tungsten, Fluorescent, Flash), Custom
Digital Effects Control	Contrast compensation, Sharpness
Contrast compensation	Three levels (Low, Normal, High)
Sharpness settings	Three levels (Soft, Normal, Hard)
Color modes	Natural Color, Vivid Color, Black and White, Sepia

Noise reduction	User selectable dark noise reduction																																
Digital zoom	Maximum 4x in 0.1x increments																																
Copy function	To copy single or multiple images to the same or another memory card.																																
E-mail Copy function	Creates a compressed 640x480 or 160x120 JPEG image for transmission.																																
Date imprinting	Year/month/day (Format can be changed.) Imprinting can be disabled																																
Key customization	The function activated by the flash-mode button can be changed.																																
Image-quality modes	Fine, Standard, Economy																																
Number of recorded pixels (Still images)	2048 x 1536, 1600 x 1200, 1280 x 960, 640 x 480 1280 x 960 in UHS continuous-advance mode																																
Number of recorded pixels (Movie clips)	640x480, 320x240, 160x120																																
Storage capacity	Approximate storage capacity of a 16MB SD (Secure Digital) Memory Card: <div>Still images</div> <table><thead><tr><th></th><th>2048x1536</th><th>1600x1200</th><th>1280x960</th><th>640x480</th></tr></thead><tbody><tr><td>Fine</td><td>9 frames</td><td>14 frames</td><td>22 frames</td><td>69 frames</td></tr><tr><td>Standard</td><td>17 frames</td><td>27 frames</td><td>39 frames</td><td>100 frames</td></tr><tr><td>Economy</td><td>32 frames</td><td>47 frames</td><td>69 frames</td><td>150 frames</td></tr></tbody></table> <div>Movie clips</div> <table><thead><tr><th></th><th>640x480</th><th>320x240</th><th>160x120</th></tr></thead><tbody><tr><td>30 fps</td><td>13 seconds</td><td>21 seconds</td><td>1 minutes 22 seconds</td></tr><tr><td>15 fps</td><td>26 seconds</td><td>41 seconds</td><td>2 minutes 30 seconds</td></tr></tbody></table> <p>* Movie clips recorded with audio. * Actual number of images may vary depending upon the subject and memory card used.</p>		2048x1536	1600x1200	1280x960	640x480	Fine	9 frames	14 frames	22 frames	69 frames	Standard	17 frames	27 frames	39 frames	100 frames	Economy	32 frames	47 frames	69 frames	150 frames		640x480	320x240	160x120	30 fps	13 seconds	21 seconds	1 minutes 22 seconds	15 fps	26 seconds	41 seconds	2 minutes 30 seconds
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File formats	JPEG, Motion JPEG (MOV) DCF 1.0-compliant DPOF-compliant (Supported by printing functions in version 1.1) Exif 2.2																																
Folder name formats	Standard, Date																																
Printing output control	Exif Print, PRINT Image Matching II																																
Recording media	SD (Secure Digital) Memory Cards, MultiMediaCards																																
Computer interface	Full-speed 12Mbps USB																																
Direct print	USB DIRECT-PRINT																																
AV output	NTSC, PAL (selected on the camera)																																
Batteries	Four AA batteries: Alkaline, Ni-MH																																
Battery performance (Playback)	Approximate continuous playback time: 300 min. with alkaline batteries.																																
Battery performance (Recording)	Approximate number of recorded images: 250 frames with alkaline batteries, LCD monitor on, Full-size images (2048x1536), Standard image quality, No instant playback, No full-time AF, Flash used with 50% of the frames.																																
External power source	6V DC with specified AC adapter (sold separately)																																
Dimensions (WxHxD)	4.31 x 3.05 x 3.15 inches (109.5 x 77.5 x 80mm)																																
Weight	Approximately 10.8oz. (305g) without batteries or recording media																																
Operating temperature	32-104°F (0-40°C)																																
Standard accessories	Neck Strap NS-DG5000, Lens Cap LF-242, Accessory Shoe Cap SC-1000, AV Cable AVC-200, 16MB SD (Secure Digital) Memory Card, USB Cable USB-500, DiMAGE Viewer, ArcSoft VideoImpression CD-ROM, Four AA Alkaline batteries																																

Optional accessories	AC Adapter AC-1L, Leather Neck Strap NS-DG1000, External High Power Battery Pack Kit EBP-100, Wide Converter Kit ZCW-100
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System Requirements

IBM PC/AT compatible computers with Windows XP Home, Windows XP Professional, Windows Me, Windows 2000 Professional, Windows 98*, or Windows 98 Second Edition* and with a USB port as standard interface.

Apple Macintosh computers with pre-installed Mac OS 9.0 – 9.2.2, Mac OS X v10.1.3 – 10.1.5, and v10.2.1 – 10.2.6 and with a USB port as standard interface.

- The computer and operating system must be guaranteed by their manufacturers to support USB interface.
- Problems may be encountered depending on what other USB devices are being used in parallel with this product.
- Only a built-in USB port is supported. Problems may be encountered when the camera is connected to a USB hub.
- Normal operation may not be possible even when all the system requirements are met.

* *Users with Windows 98 and Windows 98 Second Edition must install dedicated driver software included in the DiMAGE Z1 package.*

Specifications, accessories and system requirements are subject to change without notice.

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