

# KONICA MINOLTA DiMAGE Z10 DIGITAL CAMERA

## *Specifications*

<b>Number of effective pixels</b>	3.2 million
<b>CCD</b>	1/2.5-type interline primary-color CCD Total pixels: 3.3 million
<b>Camera sensitivity</b>	Auto and 64,100, 200, and 400 ISO equivalents
<b>Focal length</b>	6 - 48mm (35mm equivalent: 36 – 290mm)
<b>Lens construction</b>	11 elements in 9 groups
<b>Maximum aperture</b>	f/3.2 – f/3.4
<b>Minimum focus distance</b>	Wide: 1.6 ft (0.5m) from front of lens Telephoto: 4.9 ft (1.5m) from front of lens Wide: 1.9 ft (0.57m) from CCD Telephoto: 5.1 ft (1.57m) from CCD
<b>Minimum macro distance</b>	Macro Mode: Wide: 0.4 in. (0.01m) Tele: 23.6 in. (0.6m)
<b>Maximum magnification</b>	0.24x Equivalent to 1.5x in 35mm format
<b>Area covered at maximum magnification</b>	Approximately 1.0 x 0.7 in. (25 x 18mm)
<b>LCD monitor</b>	1.5 inch (3.8cm) low-temperature polysilicon TFT color Total number of pixels: 113,000 Automatic monitor amplification
<b>Field of view</b>	Viewfinder: Approximately 98% LCD monitor: Approximately 100%
<b>Display-mode switch</b>	Viewfinder display, LCD-monitor display Switch Finder system allows the monitor to be viewed directly or through the viewfinder.
<b>Diopter control</b>	- 3 ~ +1m <sup>-1</sup>
<b>Eye relief</b>	18.8mm
<b>Shutter</b>	CCD electronic shutter and mechanical shutter
<b>Shutter speed range</b>	4 - 1/2000 second in programmed AE and aperture -priority modes. 15 - 1/2000 second in shutter-priority and manual exposure modes, time exposure (maximum 30 seconds) 2 - 1/2000 second in Auto-recording and Digital Subject Programs
<b>Autofocus system</b>	Rapid AF: a combination of a passive AF sensor with the video AF system
<b>Autofocus areas</b>	3-Point Wide Focus Area Spot focus areas with Focus Area Selection
<b>Focus modes</b>	Single-shot AF, Continuous AF with predictive focus control, Full-time AF, Manual focus.
<b>Focus lock</b>	By pressing shutter-release button partway down.
<b>Metering</b>	Multi-segment, Center-weighted, Spot

<b>Multi-segment metering</b>	256 segments				
<b>Exposure modes</b>	Programmed AE, Aperture priority, Shutter priority, Manual				
<b>Digital Subject Programs</b>	Automatic (Portrait, Sports action, Landscape, Sunset, Standard) Manual (Portrait, Sports action, Landscape, Sunset, Standard, Night portrait.)				
<b>Exposure compensation</b>	±2 EV in 1/3 stop increments				
<b>AE lock</b>	By pressing shutter-release button partway down				
<b>Flash metering</b>	Pre-flash TTL				
<b>Flash range</b>	Wide: Approximately 1.6 – 17.1 ft. (0.5 – 5.2 m) from front of lens Telephoto: Approximately 14.9 – 17.1 ft. (.5 – 5.2 m) from front of lens (Camera sensitivity: auto)				
<b>Flash modes</b>	Autoflash, Autoflash with red-eye reduction, Fill flash, Flash cancel, Slow-shutter sync. Autoflash not available with aperture priority, shutter priority, and manual exposure modes.				
<b>Flash recycling time</b>	Approximately 4 seconds				
<b>Flash compensation</b>	± 2 EV in 1/3 increments				
<b>Flash-sync speeds</b>	All shutter speeds				
<b>Continuous advance</b>	Approximately 1.5 frames per second <i>*Actual speed may vary depending upon the subject and camera settings.</i>				
	Approximate number of frames that can be captured at one time with the continuous-advance drive modes:				
	<b>Continuous advance</b>				
		<b>2048x1536</b>	<b>1600x1200</b>	<b>1280x960</b>	<b>640x480</b>
	<b>Fine</b>	5 frames	8 frames	13 frames	42 frames
	<b>Standard</b>	10 frames	16 frames	24 frames	67 frames
	<b>Economy</b>	19 frames	30 frames	42 frames	94 frames
	<i>* Actual number of images may vary depending upon the subject and camera settings.</i>				
<b>Progressive Capture</b>	Stores images from the built-in memory to the memory card from the latest frame captured with the continuous advance. Maximum number of images that can be recorded with the Progressive Capture mode: 6 frames (1.5 frames per second)				
<b>Exposure bracketing</b>	Three frame bracket in 1.0, 0.5, 0.3 EV increments				
<b>Self-timer</b>	Approximately 10 seconds , 2 seconds				
<b>Movie</b>	Recording time dependent on memory card capacity, image size, and frame rate. Frame rate: 15 frames per second (640 x 320, 320 x 240), 30 frames per second (320 x 240) Movie frame capture Night movie (automatic selection or disabled)				
<b>White balance control</b>	Automatic, Preset (Daylight, Cloudy, Tungsten, Fluorescent, Flash), Custom				
<b>Digital Effects control</b>	Contrast compensation, Sharpness				

<b>Contrast compensation</b>	Three levels (Low, Normal, High)			
<b>Sharpness settings</b>	Three levels (Soft, Normal, Hard)			
<b>Color modes</b>	Natural Color, Vivid Color, Black and white, Sepia			
<b>Noise reduction</b>	User selectable dark noise reduction			
<b>Digital zoom</b>	Maximum 4x in 0.1x increments			
<b>Copy function</b>	To copy single or multiple images to the same or another memory card.			
<b>E-mail Copy function</b>	Creates a compressed 640 x 480 JPEG image for transmission.			
<b>Date imprinting</b>	Year/month/day (Format can be changed.) Imprinting can be disabled			
<b>Key customization</b>	The function activated by the flash-mode button can be changed.			
<b>Image-quality modes</b>	Fine, Standard, Economy			
<b>Number of recorded pixels (Still images)</b>	2048 x 1536, 1600 x 1200, 1280 x 960, 640 x 480			
<b>Number of recorded pixels (Movie clips)</b>	640 x 480, 320 x 240			
<b>Storage capacity</b>	Approximate storage capacity of a 16MB SD (Secure Digital) Memory Card:			
	<b>Still images</b>			
		<b>2048x1536</b>	<b>1600x1200</b>	<b>1280x960</b>
		<b>640x480</b>		
<b>Fine</b>	9 frames	14 frames	22 frames	69 frames
<b>Standard</b>	17 frames	27 frames	39 frames	100 frames
<b>Economy</b>	32 frames	47 frames	69 frames	150 frames
	<b>Movie clips</b>			
		<b>640 x 480</b>	<b>320 x 240</b>	
<b>30 frames per second</b>	-		21 seconds	
<b>15 frames per second</b>	26 seconds		42 seconds	
	<i>* Actual number of images may vary depending upon the subject and memory card used.</i>			
<b>File formats</b>	JPEG, Motion JPEG (MOV) DCF 2.0-compliant DPOF-compliant (Supported by printing functions in version 1.1) Exif 2.2			
<b>Folder name formats</b>	Standard, Date			
<b>Printing output control</b>	Exif Print, PRINT Image Matching II, PictBridge			
<b>Recording media</b>	SD (Secure Digital) Memory Cards, MultiMediaCards			
<b>Computer interface</b>	Full-speed 12Mbps data transfer with USB 2.0 compatible computer			
<b>AV output</b>	NTSC, PAL (selected on the camera)			
<b>Batteries</b>	Four AA batteries: Alkaline, Ni-MH			
<b>Battery performance (Playback)</b>	Approximate continuous playback time: 600 minutes with alkaline batteries.			
<b>Battery performance (Recording)</b>	Approximate number of recorded images: 500 Conforming to CIPA ( included AA alkaline batteries, included SD memory card )			
<b>External power source</b>	6V DC with specified AC adapter (sold separately)			

<b>Dimensions (WxHxD)</b>	4.3 x 3.2 x 3.7 in. (109 x 82 x 94mm)
<b>Weight</b>	Approximately 10.6 oz. (300g) without batteries or recording media
<b>Operating temperature</b>	32-104°F (0-40°C)
<b>Standard accessories</b>	Neck Strap NS-DG800, Lens Cap LF-243B, Video Cable VC-400, 16MB SD (Secure Digital) Memory Card, USB Cable USB-3, DiMAGE Viewer CD-ROM, Four AA Alkaline batteries
<b>Optional accessories</b>	AC Adapter AC-1L, Camera Case CS-DG1000, Neck Strap NS- DG7000, Wide-Angle Converter ZCW-200 kit

**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 – 10.2.8, v10.3-10.3.3 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 Z10 package.*

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

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