

KONICA MINOLTA DiMAGE Z20 DIGITAL CAMERA

Specifications

Number of effective pixels	Approximately 5.0 million
CCD	1/2.5-inch interline primary-color CCD Total pixels: Approximately 5.2 million
Camera sensitivity	Auto and 50,100, 200, and 320 ISO equivalents
Focal length	6 - 48mm (35mm equivalent: 36 – 290mm)
Lens construction	11 elements in 9 groups
Maximum aperture	f/3.2 – f/3.4
Minimum focus distance	Wide: 1.6ft (0.5m) from front of lens Telephoto: 4.9ft (1.5m) from front of lens
Minimum macro distance	Macro Mode: Wide: 0.4 in. (0.01m) Tele: 23.6 in. (0.6m)
Maximum magnification	0.24x Equivalent to 1.5x in 35mm format
Area covered at maximum magnification	Approximately 1.0 x 0.7 in. (25 x 18mm)
LCD monitor	1.5-inch low-temperature polysilicon TFT color Total number of pixels: 113,000 Automatic monitor amplification
Viewfinder type	Electronic Viewfinder
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.
Dioptr control	- 3 ~ +1m ⁻¹
Eye relief	18.8mm
Shutter	CCD electronic shutter and mechanical shutter
Shutter speed range	4 - 1/2000
Autofocus system	Rapid AF: a combination of a passive AF sensor with the video AF system
Autofocus areas	3-Point Wide Focus Area Spot focus areas with Focus Area Selection
Focus modes	Single-shot AF, Continuous AF with predictive focus control, 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	Automatic (Portrait, Sports action, Landscape, Sunset, Standard) Manual (Portrait, Sports action, Landscape, Sunset, Night portrait.)
Exposure compensation	±2 EV in 1/3 EV increments
AE lock	By pressing shutter-release button partway down

Flash metering	Pre-flash TTL																									
Flash range	Wide: Approximately 1.6 – 15.1 ft. (0.5 – 4.6 m) from front of lens Telephoto: Approximately 4.9 – 15.1ft. (1.5 – 4.6 m) from front of lens (Camera sensitivity: auto)																									
Flash modes	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.																									
Flash recycling time	Approximately 5 seconds																									
Flash compensation	± 2 EV in 1/3 EV increments																									
Flash-sync speeds	All shutter speeds																									
Continuous advance	1.0 Frame per second (Approximately) <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 continuous-advance drive modes: <table><tr><th colspan="5">continuous advance</th></tr><tr><th></th><th>2560x1920</th><th>2048x1536</th><th>1600x1200</th><th>640x480</th></tr><tr><td>Fine</td><td>3 frames</td><td>3 frames</td><td>5 frames</td><td>28 frames</td></tr><tr><td>Standard</td><td>4 frames</td><td>7 frames</td><td>11 frames</td><td>45 frames</td></tr><tr><td>Economy</td><td>9 frames</td><td>13 frames</td><td>20 frames</td><td>64 frames</td></tr></table> <i>* Actual number of images may vary depending upon the subject and camera settings.</i>	continuous advance						2560x1920	2048x1536	1600x1200	640x480	Fine	3 frames	3 frames	5 frames	28 frames	Standard	4 frames	7 frames	11 frames	45 frames	Economy	9 frames	13 frames	20 frames	64 frames
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Progressive Capture	Stores images from the latest frame captured with the continuous advance. Maximum number of images that can be recorded with the Progressive Capture mode: Maximum 6 frames (Approximately 1 frame per second)																									
Exposure bracketing	Three frame bracket in 0.5, 0.3 EV increments																									
Self-timer	Approximately 10 seconds, 2 seconds																									
Movie	Recording time dependent on memory card capacity, image size, and frame rate. Frame rate: 15 frames per second (640x480, 320x240) 30 frames per second (320x240) 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																									
Digital zoom	Maximum 4x in 0.1x increments																									
Languages	Japanese, English, Germany, French, Spanish, Chinese (Simplified character), Italian, Swedish																									
Copy function	To copy single or multiple images 1).Card to card																									

	2).Card to internal storage 3).Internal storage to card																																																																																														
E-mail Copy function	Creates a compressed 640x480 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)	2560x1920, 2048x1536, 1600x1200, 640x480																																																																																														
Number of recorded pixels (Movie clips)	640x480, 320x240,																																																																																														
Storage capacity	<div>Approximate storage capacity of a 14.5MB internal storage:</div> <table><tr><th colspan="5">Still images</th></tr><tr><td></td><td>2560x1920</td><td>2048x1536</td><td>1600x1200</td><td>640x480</td></tr><tr><td>Fine</td><td>6 frames</td><td>9 frames</td><td>14 frames</td><td>71 frames</td></tr><tr><td>Standard</td><td>11 frames</td><td>17 frames</td><td>28 frames</td><td>103 frames</td></tr><tr><td>Economy</td><td>22 frames</td><td>33 frames</td><td>48 frames</td><td>155 frames</td></tr><tr><th colspan="5">Movie clips</th></tr><tr><td></td><td colspan="2">640 x 480</td><td colspan="2">320 x 240</td></tr><tr><td>30 fps</td><td colspan="2">-</td><td colspan="2">21 seconds</td></tr><tr><td>15 fps</td><td colspan="2">27 seconds</td><td colspan="2">43 seconds</td></tr></table> <div>Approximate storage capacity of a 64MB SD (Secure Digital) Memory Card:</div> <table><tr><th colspan="5">Still images</th></tr><tr><td></td><td>2560x1920</td><td>2048x1536</td><td>1600x1200</td><td>640x480</td></tr><tr><td>Fine</td><td>25 frames</td><td>38 frames</td><td>61 frames</td><td>297 frames</td></tr><tr><td>Standard</td><td>49 frames</td><td>74 frames</td><td>117 frames</td><td>430 frames</td></tr><tr><td>Economy</td><td>94 frames</td><td>138 frames</td><td>203 frames</td><td>645 frames</td></tr><tr><th colspan="5">Movie clips</th></tr><tr><td></td><td colspan="2">640 x 480</td><td colspan="2">320 x 240</td></tr><tr><td>30 fps</td><td colspan="2">-</td><td colspan="2">1minute 31 seconds</td></tr><tr><td>15 fps</td><td colspan="2">1 minute 56 seconds</td><td colspan="2">3 minutes 3 seconds</td></tr></table> <div>* Actual number of images may vary depending upon the subject and memory card used.</div>					Still images						2560x1920	2048x1536	1600x1200	640x480	Fine	6 frames	9 frames	14 frames	71 frames	Standard	11 frames	17 frames	28 frames	103 frames	Economy	22 frames	33 frames	48 frames	155 frames	Movie clips						640 x 480		320 x 240		30 fps	-		21 seconds		15 fps	27 seconds		43 seconds		Still images						2560x1920	2048x1536	1600x1200	640x480	Fine	25 frames	38 frames	61 frames	297 frames	Standard	49 frames	74 frames	117 frames	430 frames	Economy	94 frames	138 frames	203 frames	645 frames	Movie clips						640 x 480		320 x 240		30 fps	-		1minute 31 seconds		15 fps	1 minute 56 seconds		3 minutes 3 seconds	
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File formats	JPEG, Motion JPEG (MOV), DCF 2.0-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 III, PictBridge																																																																																														
Recording media	SD (Secure Digital) Memory Cards, MultiMediaCards, Internal storage (approximately 14.5MB)																																																																																														

Computer interface	Full-speed 12Mbps data transfer with USB 2.0 compatible computer
AV output	NTSC, PAL (selected on the camera)
Batteries	Four AA batteries: Alkaline, Ni-MH
Battery performance (Playback)	Approximate continuous playback time: 700 minutes with Alkaline batteries.
Battery performance (Recording)	Approximate number of recorded images: Approximately 450 Conforming to CIPA (included AA alkaline batteries and SD memory card)
External power source	6V DC with specified AC adapter (sold separately)
Dimensions (WxHxD)	4.3 x 3.2 x 3.7 in. (109 x 82 x 94 mm)
Weight	Approximately 10.6oz. (300g) without batteries or recording media
Operating temperature	32-104°F (0-40°C)
Standard accessories	Neck Strap NS-DG800, Lens Cap LF-243B, Video Cable VC-400, USB Cable USB-3, DiMAGE Viewer CD-ROM, Four AA, Alkaline batteries
Optional accessories	AC Adapter AC-11, Camera Case CS-DG1000, Leather Neck Strap NS-DG1000, Wide-angle Converter ZCW-200

System Requirements

The following operating systems are compatible with the camera: 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, v10.3-10.3.6 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 Z20 package.*

Specifications and system requirements are subject to change without notice.

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