Technical Specifications

Number of effective pixels: 3.2 million

CCD: 1/2.7-type interline primary-colour 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: 0.5 from front of lens
                                    Telephoto: 2m from front of lens
                                    Wide: 0.57m from CCD
                                    Telephoto: 2.07m from CCD

Minimum macro distance:

		Super Macro	Standard macro
Focal length	9.7mm*	Wide	Telephoto
From front of lens	4 cm	10cm	120cm
From CCD	11 cm	17cm	127cm

* at 9.7mm only

Maximum magnification: 0.12x (1: 8.33)
                                    Equivalent to 0.79x (1: 1.27) in 35mm format

Area covered at maximum magnification: 33 x 44mm

LCD monitor: 3.8cm (1.5 inch) low temperature polysilicon TFT
                                    colour with anti-reflection coating
                                    Total number of pixels: 113,000
                                    Automatic monitor amplification

Field of view:	Viewfinder: 98% (approx.) LCD monitor: 100 % (approx.)
Display mode switch:	Viewfinder display, LCD monitor display Switch Finder system allows the monitor to be viewed directly or through the viewfinder.
Dioptre control:	$- 3 \sim +1m^{-1}$
Eye relief:	18.8mm
Shutter:	CCD electronic shutter and mechanical shutter
Shutter speed range:	4 - 1/1000 s in programmed-AE and aperture priority modes. 15 - 1/1000 s in shutter priority and manual exposure modes. 2 - 1/1000 s in auto recording and Digital Subject Programs Bulb (max. 30 s)
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, Centre-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: 0.23 – 6.1 m (approx.) from CCD Telephoto: 1.2 – 4.8 m (approx.) 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:	7 s (approx.)
Flash compensation:	± 2 Ev in 1/3 increments
Flash-sync speeds:	All shutter speeds
External flashes:	Auto-flash metering with Program Flash 2500 (D), Program 3600HS (D), Program Flash 5600HS (D)
Continuous advance:	UHS (Ultra High Speed) continuous advance: Ten 1280x960 frames in one second (approx. Standard continuous advance: 1.5 fps (approx.) *Actual speed may vary depending upon the subject and camera settings. Approximate number of frames that can be captured at one time with the continuous advance drive modes:

	UHS continuous advance			
	1280x960			
Fine	10 frames			
Standard				
Economy				
	Standard continuous advance			
	2048x1536	1600x1200	1280x960	640x480
Fine	5 frames	8 frames	13 frames	42 frames
Standard	10 frames	16 frames	24 frames	67 frames
Economy	19 frames	30 frames	42 frames	94 frames

*   Actual number of images may vary depending upon the subject and camera settings.

Progressive Capture: 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:
UHS: 10 frames
Standard: 6 frames

Exposure bracketing: Three frame bracket in 1.0, 0.5, 0.3 Ev increments

Self timer: 10 s (approx.)

Movie: Recording time dependent on memory card capacity, image size, and frame rate.
Frame rate: 15fps, 30 fps
Fast forward and rewind control.
With and without mono 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)

Colour modes: Natural Colour, Vivid Colour, Black and white, Sepia

Noise reduction: User selectable dark noise reduction

Digital zoom: 4x (max.) 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 customisation: 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

MINOLTA

Storage capacity: Approximate storage capacity of a 16MB SD (Secure
                               Digital) Memory Card:

Still images

	2048x1536	1600x1200	1280x960	640x480
Fine	13 frames	18 frames	25 frames	88 frames
Standard	19 frames	31 frames	45 frames	113 frames
Economy	33 frames	50 frames	69 frames	150 frames

Movie clips

	640x480	320x240	160x120
30 fps	13 s	21 s	1 min. 22 s
15 fps	26 s	41 s	2 min. 30 s

*   Movie clips recorded with audio.
*   Actual number of images may vary depending upon the subject and memory card
        used.

File formats: JPEG, Motion JPEG (MOV) DCF 1.0-compliant
                               DPOF-compliant (Supported by printing functions in
                               ver. 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:	109.5 (W) x 77.5(H) x 80(D) mm
Weight:	305g without batteries or recording media
Operating temperature:	0-40ºC
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 or AC-11 Camera Case CS-DG600 Leather Neck Strap NS-DG1000 External High Power Battery Pack Kit EBP-100 Wide Converter Kit ZCW-100

Specifications and accessories are based on the information available at the time of printing and are subject to change without notice.

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 preinstalled 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.

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