

MINOLTA 5 MEGAPIXEL DiMAGE A1 DIGITAL CAMERA

Specifications

Number of effective pixels	5.0 million
CCD	2/3-type progressive primary-color CCD Total pixels: 5.3 million
A/D conversion	14 bit
Camera sensitivity	Auto, ISO 100, 200, 400, 800 equivalents
Focal length	7.2 – 50.8mm (35 mm equivalent: 28 - 200 mm)
Lens construction	16 elements in 13 groups (includes two AD glass elements and two aspheric elements)
Maximum aperture	f/2.8 – f/3.5
Minimum focus distance	1.6 ft. (0.5m) from CCD
Macro focus range	At 7.2mm: 11.8 – 23.6 in. (30 – 60 cm) from CCD 8.3 – 20 in. (21 – 51 cm) from front of lens At 42.7 – 50.8mm: 9.8 – 23.6 in. (25 – 60 cm) from CCD 5.1 – 19.7 in. (13 – 50 cm) from front of lens
Maximum magnification	0.177x (1: 5.65) Equivalent to 0.7x (1: 1.43) in 35mm format
Area covered at maximum magnification	1.97 x 1.46 in. (50 x 37 mm)
Optical zooming control	Manual zooming ring
Filter diameter	49mm
Viewfinder type	EVF (Electronic viewfinder) Variable-position: 0-90°
Viewfinder LCD	0.44 inch (11mm) TFT liquid-crystal microdisplay Total pixels: 235,000 pixels
LCD monitor	1.8 inch (46mm) low-temperature polysilicon TFT color Variable-position: -20- 90° Total pixels: 118,000
Automatic monitor amplification	Activates in low light.
Field of view	EVF: Approximately 100% External LCD monitor: Approximately 100%
Display-mode switch	Auto-display, Electronic-viewfinder display, External LCD-monitor display
Diopter control	- 5 ~ +2 m ⁻¹
Eye relief	22mm at -1 m ⁻¹
Shutter	CCD electronic shutter and mechanical shutter
Shutter speed range	30 - 1/16,000 second Bulb (maximum 30 seconds)
Autofocus system	Video AF
Autofocus areas	Wide focus area, Spot focus point Flex Focus Point control is available with the spot focus point.
Focus modes	Autofocus: Single-shot AF, Continuous AF, Full-time AF, Subject Tracking AF. Manual focus with 2x or 8x Flex Digital Magnifier (FDM)
Full-time AF	With the spot focus point or Flex Focus Point. Full-time AF can be disabled.
Subject Tracking AF	With continuous AF. Subject Tracking AF can be disabled.

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Focus lock	By pressing shutter-release button partway down.																														
Subject lock	With Subject Tracking AF by pressing shutter-release button partway down.																														
Metering	Multi-segment, Center-weighted, Spot (center or with Flex Focus Point)																														
Multi-segment metering	300 segments																														
Exposure control range	Programmed AE and aperture-priority modes: Wide: EV -1 - 20 Telephoto: EV -0.4 - 20.7 Shutter-priority and manual modes: Wide: EV - 2 - 21 Telephoto: EV - 1.4 - 21																														
Exposure modes	Programmed AE (with program shift), Aperture priority, Shutter priority, Manual																														
Digital Subject Programs	Portrait, Sports action, Sunset, Night portrait																														
Exposure compensation	± 2 EV in 1/3 increments																														
AE lock	With AE-lock button or by pressing the shutter-release button partway down																														
Flash control	ADI, Pre-flash TTL, Manual flash control																														
Flash range	Wide: Approximately 1.6 - 12.5 ft. (0.5 - 3.8m) Telephoto: Approximately 1.6 - 9.8 ft. (0.5 - 3m) (Camera sensitivity: auto)																														
Flash modes	Fill-flash, Red-eye reduction, Rear flash sync, Wireless/Remote flash																														
Flash recycling time	Approximately 5 seconds																														
Flash compensation	± 2 EV in 1/3 increments																														
Flash-sync speed	All shutter speeds																														
External flashes	Auto-flash metering with Program/Maxxum Flash 2500 (D), 3600HS (D), 5600HS (D), Macro Twin Flash 2400,* Macro Ring Flash 1200.* <i>*Macro Flash Controller is necessary.</i> Non-dedicated off-camera flash units can be used using the camera's flash-sync terminal.																														
Continuous advance	- High-speed continuous advance: Maximum 2.8 frames per second - Standard continuous advance: Maximum 2 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: <table><tr><td></td><td><u>2560x1920</u></td><td><u>2080x1560</u></td><td><u>1600x1200</u></td><td><u>640x480</u></td></tr><tr><td>RAW:</td><td>5 frames</td><td>-</td><td>-</td><td>-</td></tr><tr><td>TIFF:</td><td>3 frames</td><td>3 frames</td><td>3 frames</td><td>3 frames</td></tr><tr><td>Extra Fine:</td><td>3 frames</td><td>3 frames</td><td>3 frames</td><td>3 frames</td></tr><tr><td>Fine:</td><td>3 frames</td><td>3 frames</td><td>3 frames</td><td>3 frames</td></tr><tr><td>Standard:</td><td>3 frames</td><td>3 frames</td><td>3 frames</td><td>3 frames</td></tr></table> <i>*Actual number of images may vary depending upon the subject and camera settings.</i>		<u>2560x1920</u>	<u>2080x1560</u>	<u>1600x1200</u>	<u>640x480</u>	RAW:	5 frames	-	-	-	TIFF:	3 frames	3 frames	3 frames	3 frames	Extra Fine:	3 frames	3 frames	3 frames	3 frames	Fine:	3 frames	3 frames	3 frames	3 frames	Standard:	3 frames	3 frames	3 frames	3 frames
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Interval recording	2 - 240 frames Interval time: 30 seconds, 1 - 10 minutes, 15 minutes, 20 minutes, 30 minutes, 45 minutes, 60 minutes Start time: 0-24 hour in 0.5 hour increments.																														
Exposure bracketing	Three-frame bracket in 0.5 and 0.3 EV increments																														
Digital Enhanced Bracketing	Three-frame contrast, color saturation, or filter bracket in fixed increments.																														
Self-timer	Approximately 10 seconds, 2 seconds																														
Movie	- Standard movie mode: Maximum 15 minutes at 24 frames per																														

	second with monaural audio - Night movie mode: Maximum 15 minutes at 24 frames per second with monaural audio - Automatic selection function between standard and night movie modes available. - Time-lapse movie mode: no audio and played back at 4 frames per second																														
Audio	Voice memo: Maximum 15 seconds monaural audio with still image																														
Color modes	Natural Color (sRGB), Vivid Color (sRGB), Adobe RGB, Embedded Adobe RGB, Black and white (neutral and toned), Solarization																														
Camera color spaces	sRGB, Adobe RGB																														
White-balance control	Automatic Preset (Daylight, Tungsten, Shade, Cloudy, Flash, and Fluorescent settings) with fine adjustments in seven levels. Custom (three settings)																														
Sharpness settings	Three levels (Soft, Normal, Hard)																														
Digital Effects Control	Color saturation, Contrast compensation, Filter																														
Noise reduction	User selectable dark noise reduction																														
Digital zoom	2x with still images																														
Data imprinting	Year/month/day (Format can be changed.) Month/day/hour:minute Text Text and serial numbers Imprinting can be disabled.																														
Custom functions	Control dial customization. User-selectable function can be assigned to the function dial.																														
Image-quality modes	RAW, TIFF, Extra fine, Fine, Standard																														
Number of recorded (Still images):	2560 x 1920, 2080 x 1560, 1600 x 1200, 640 x 480																														
Number of recorded (Movie clips):	320 x 240 in standard and night movie modes 640 x 480 in time-lapse movie mode																														
Storage capacity	Approximate storage capacity of a 16 MB CompactFlash card: <table><tr><td></td><td><u>2560x1920</u></td><td><u>2080x1560</u></td><td><u>1600x1200</u></td><td><u>640x480</u></td></tr><tr><td>RAW:</td><td>2 frames</td><td>-</td><td>-</td><td>-</td></tr><tr><td>TIFF:</td><td>1 frames</td><td>1 frames</td><td>2 frames</td><td>15 frames</td></tr><tr><td>Extra Fine:</td><td>2 frames</td><td>4 frames</td><td>7 frames</td><td>35 frames</td></tr><tr><td>Fine:</td><td>5 frames</td><td>8 frames</td><td>14 frames</td><td>47 frames</td></tr><tr><td>Standard:</td><td>10 frames</td><td>14 frames</td><td>23 frames</td><td>63 frames</td></tr></table> Movie: 19 seconds with 320x240 images <i>*Still images recorded without voice memo.</i> <i>**Actual number of images may vary depending upon the subject and memo card used.</i>		<u>2560x1920</u>	<u>2080x1560</u>	<u>1600x1200</u>	<u>640x480</u>	RAW:	2 frames	-	-	-	TIFF:	1 frames	1 frames	2 frames	15 frames	Extra Fine:	2 frames	4 frames	7 frames	35 frames	Fine:	5 frames	8 frames	14 frames	47 frames	Standard:	10 frames	14 frames	23 frames	63 frames
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File formats	JPEG, TIFF, Motion JPEG (MOV), RAW, WAVE DCF 1.0-compliant DPOF-compliant (Supported by printing functions in version 1.1) Exif 2.2																														
Printing output control	Exif Print, PRINT Image Matching II																														
Recording media	Type I and Type II CompactFlash cards IBM Microdrive (170MB, 340MB, 512MB, 1GB)																														
Computer interface	Full-speed 12Mbps USB																														
AV output	NTSC, PAL (selected on the camera)																														
Batteries	One NP-400 lithium-ion battery																														

Battery performance (Playback)	Approximate continuous playback time: 300 minutes with NP-400 lithium-ion battery, External LCD monitor on, EVF off.
Battery performance (Recording)	Approximate number of recorded images: 330 frames with NP-400 lithium-ion battery, EVF on, External LCD monitor off, Full-size images (2560 x 1920), Fine image quality, No instant playback, No voice memo, Flash used with 50% of the frames.
External power source	6V DC with specified AC adapter (sold separately)
Dimensions (WxHxD)	4.61 x 3.35 x 4.47 inches (117 x 85 x 113.5mm)
Weight	Approximately 19.8 oz. (560 g) without batteries or recording media
Operating temperature	32-104 °F (0-40 °C)
Standard accessories	Neck Strap NS-DG4000, Lens Cap (49mm) LF-1249, Accessory Shoe Cap SC-10, AV Cable AVC-400, 16MB CompactFlash Card, USB Cable USB-500, DiMAGE Viewer, Lens Shade DLS-1, Lithium-ion Battery NP-400, Lithium-ion Battery Charger BC-400
Optional accessories	AC Adapter AC-1L, Leather Neck Strap NS-DG1000, Holding Strap HS-2, External High Power Battery Pack Kit EBP-100, Remote Cord RC-1000S, Remote Cord RC-1000L, Step Up Adapter 49mm – 62mm, CompactFlash Adapter for SD Memory Cards SD-CF1, Battery Pack BP-400, DiMAGE Capture

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 Mac OS 9.0 – 9.2.2, Mac OS X v10.1.3-10.1.5, or v10.2.1 – 10.2.5 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 A1 package.

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

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