

MINOLTA DiIMAGE X20 DIGITAL CAMERA

Specifications

Number of effective pixels	2.0 million
CCD	1/3.2-type interline primary-color CCD Total pixels: 2.1 million
Camera sensitivity	Auto (between ISO 64 –200 equivalent), ISO 64,100, 200, 400 equivalents
Focal length	4.8 – 14.4mm (35mm equivalent: 37 – 111mm)
Lens construction	10 elements in 9 groups (includes two double-sided aspheric elements)
Maximum aperture	f/2.8 – f/3.7
Minimum focus distance	3.9 inches (0.10m) from front of camera
Maximum magnification	0.111x (1:9.01) Equivalent to 0.857x (1: 1.17) in 35mm format
Area covered at maximum magnification	1.57 x 1.18 inches (40 x 30mm)
Monitor LCD	1.6 inch (4.0cm) digital-interface TFT color monitor with anti-reflection coating Total pixels: 84,960 Automatic monitor amplification
Shutter	CCD electronic shutter and mechanical shutter
Shutter speed range	4 - 1/1000 second
Autofocus system	Video AF
Autofocus areas	Wide focus area (five-point AF)
Metering	Multi-segment
Multi-segment metering	256 segments
Exposure control	Programmed AE
Exposure compensation	±2 EV in 1/3 increments
Flash range	Wide: 0.3 – 11.8 ft. (0.1 – 3.6 m) (approximately) Telephoto: 0.3– 8.9 ft. (0.1 – 2.7 m) (approximately) (Camera sensitivity: auto)
Flash modes	Autoflash, Autoflash with red-eye reduction, Fill-flash, Flash cancel, Night portrait
Continuous advance	Available
Self-timer	Approximately 10 seconds
Self-portrait	Subject program used with the mirror on the front of the camera.
Multi frame	To capture 9 sequential images at 3 frames per second displayed in a 3x3 grid in a single frame
Image pasting	Embeds an image within another image
Movie recording	Recording time dependent on memory card capacity and image size. Frame rate: 15 frames per second Monaural audio only.
Audio	Voice memo: Maximum 15 seconds Audio caption: Maximum 15 seconds Monaural audio only
White balance control	Automatic, Preset (Daylight, Cloudy, Tungsten, Fluorescent)
Toning	Neutral black and white, Sepia, Red tone, Blue tone, Green tone
Portrait mode	Optimizes camera settings to enhance skin tones.

Noise reduction	Auto																
Digital zoom	Maximum 4x in 0.1x increments Digital zoom can be disabled																
E-mail Copy function	Creates a compressed 640x480 or 160x120 JPEG image for transmission.																
Favorites	To collect compressed 640x480 JPEG images on the memory card.																
Slide show	With automatic dissolve effects.																
Rotate	To manually orient vertical images for viewing.																
Date imprinting	Year/month/day (Format can be changed.) Month/day/hour:minute Imprinting can be disabled.																
Key customization	The function activated by the left and right keys of the controller can be changed.																
Image-quality modes	Fine, Standard, Economy																
Number of recorded pixels (Still images)	1600 x 1200, 1280 x 960, 640 x 480																
Number of recorded pixels (Movie clips)	320 x 240, 160 x 120																
Storage capacity	Approximate storage capacity of an 8 MB SD (Secure Digital) Memory Card: <table><tr><td></td><td><u>1600x1200</u></td><td><u>1280x960</u></td><td><u>640x480</u></td></tr><tr><td>Fine</td><td>6 frames</td><td>10 frames</td><td>31 frames</td></tr><tr><td>Standard</td><td>12 frames</td><td>18 frames</td><td>48 frames</td></tr><tr><td>Economy</td><td>22 frames</td><td>31 frames</td><td>68 frames</td></tr></table> Movie: 19 seconds with 320x240 images; 1 minute 14 seconds with 160x120 images <i>* Still images recorded without voice memo or audio caption</i> <i>** Actual number of images may vary depending upon the subject and memory card.</i>		<u>1600x1200</u>	<u>1280x960</u>	<u>640x480</u>	Fine	6 frames	10 frames	31 frames	Standard	12 frames	18 frames	48 frames	Economy	22 frames	31 frames	68 frames
	<u>1600x1200</u>	<u>1280x960</u>	<u>640x480</u>														
Fine	6 frames	10 frames	31 frames														
Standard	12 frames	18 frames	48 frames														
Economy	22 frames	31 frames	68 frames														
File formats	JPEG, Motion JPEG (MOV), WAVE 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	Epson USB DIRECT-PRINT																
Remote camera	Live video feed without audio for web transmission																
AV output	NTSC, PAL (selected on the camera)																
Batteries	Two AA batteries: Alkaline, Ni-MH																
Battery performance (Playback)	Approximate continuous playback time: 260 min. with alkaline batteries.																
Battery performance (Recording)	Approximate number of recorded images: 110 frames. Based on the following test conditions: alkaline batteries, Full-size images (1600 x 1200), Standard image quality, No instant playback, No voice memo, Flash used with 50% of the frames.																
External power source	3V DC with specified AC adapter (sold separately)																
Dimensions (WxHxD)	3.39 x 2.64 x 0.93 inches (86 x 67 x 23.5mm)																
Weight	Approximately 4.1 oz. (115 g) without battery or recording media																
Operating temperature	32-104°F (0-40°C)																
Standard accessories	Neck Strap NS-DG500, AV Cable AVC-200, USB Cable USB-																

	500, 8MB SD (Secure Digital) Memory Card, Two AA Alkaline batteries, DiMAGE Viewer
Optional accessories	Metal Chain Neck Strap NS-DG100, AC Adapter

System Requirements

Compatible computers when the camera is used as mass storage device:

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.

* Users with Windows 98 and Windows 98 Second Edition operating systems must install dedicated driver software included in the DiMAGE X20 package.

Minimum system requirements for the remote camera function:

Computers	IBM PC/AT compatible computers with a USB port as standard interface
CPU	Pentium II 300MHz or later processor (*1)
Operating systems	Windows XP Home, Professional, Me, 2000 Professional, or 98 Second Edition
RAM	128 MB of RAM. 256 MB with Windows XP. (*1)
Hard-disk space	200 MB of free hard-disk space
Monitor	800 x 600 monitor capable of displaying 16-bit color quality.
Tested applications	Microsoft NetMeeting, Windows Messenger (*2)
Other	CD-ROM drive

*1 The CPU and RAM must satisfy the requirements of the operating system.

*2 The application software must be guaranteed by the manufacturer to work with the operating system.

- 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.

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

DiMAGE and Minolta are trademarks or registered trademarks of Minolta Co., Ltd.

Windows is either a registered trademark or a trademark of Microsoft Corporation in the United States and/or other countries. Macintosh is a trademark or registered trademark of Apple Computer Inc. Other corporate names and product names are trademarks or registered trademarks of their respective companies.

#