

Des Moines Public Schools
Q7106 Document Camera
Specifications

Lumens DC192 Ladibug

Zoom 16x (8x optical zoom; 2 sensor zoom)
Digital Zoom 12x
Mechanical Zoom 10x
Close-up 1.2" (3 cm)
Shooting Area Max. 16.5" x 12.4" (420 x 315 mm) > A3 size
Output Resolution XGA, SXGA(1280x960), WXGA, 1080p
High Color Reproduction ΔE^*_{ab} 14.87 (mean)
SNR 51 dB
Sharpness MTF 937 lines
Frame Rate 30 fps
Lamp LED gooseneck side lamp and head lamp
Power Supply Internal power supply, 100-240VAC
USB Image Transmission USB 2.0 (480 Mbps) high-speed transmission
Video/Audio Recording One-touch records image and sound synchronously
Built-in Microphone Yes
Image Capture Single or continuous capturing
Auto Tune Yes, one button for image optimization
Image Rotation 0°, 180°, flip, mirror
Anti-Theft Kensington anti-theft lock device
Free Lumens™ Software Support PC Windows 8, 7, XP, Vista and Mac OSX ; WIA & TWAIN interface
Included Accessories Power cable, VGA cable, USB cable, remote control, microscope adapter

Epson DC-20

Video

Pick-up Device 1/2.7" CMOS sensor
Effective Pixels 1920 x 1080, 2 megapixels
Frame Rate 30 fps maximum
Output VGA: SXGA (1280 x 1024), XGA (1024 x 768), WXGA (1280 x 800), HD (1360 x 768), 1080p
USB: QVGA, VGA, SVGA, XGA, SXGA
HDMI: 480p/720p/1080p
Composite Video: NTSC/PAL
White Balance Auto
Exposure Auto
Brightness Auto

Optical System

Lens F – number: 3.4-5
Capture Area 11.7" x 16.5" (XGA), 11.7" x 20.7" (1080p)
Zoom 12x optical zoom, 10x digital zoom
Focus Auto
Image Rotation ±90 degrees

Illumination System

Upper White LED x 2
Brightness 250 lx or above

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Functions

User Functions Zoom, Freeze, Auto focus, LED, Brightness, Contrast, Negative, Black and white, Split Screen, Slideshow, Video capture, Digital scroll(pan/tilt), Flicker reduction, Image rotation, Source (PC/DC), Auto detect aspect, Video recording, Video playing, PC-free annotation

Interface

Interface Port

Input: VGA, mic input, 5 USB-A (for PC-free annotation, USB flash drive)

Output: VGA, USB-B, HDMI, Composite video

Other

Operating Temperature 41 ° to 95 °F (5 ° to 35 °C)

Operating Humidity 20 to 80%

Power Supply Voltage 100 to 240 V AC/DC

Power Frequency 50/60 Hz

Output Voltage of AC Power Adapter DC 12 V

Power Consumption (operating) 17 W

Power Consumption (standby mode) 0.48 W

Analog Output Standard NTSC/PAL

Memory 1GB internal, SD card slot (SD/SDHC only)4, USB flash drive

Security Kensington® lock support, Metal security bar, Security mounting holes

Operating System Compatibility Windows® 8, Windows 7, Windows Vista®, Windows XP SP2, Mac OS® X 10.5.x, 10.6.x and 10.7.x

Connectivity Hi-Speed USB 2.0

Dimensions (W x D x H)

Open 10.6" x 12.5 x 19.6" (W x D x H)

Closed/Folded 14.9" x 4.8" x 4.7" (W x D x H)

Weight 6.6 lb

Application Software

Language 13 languages

Functions Annotations, Edit, Preview Video capture, Still image capture, Burst-capture, Time-lapse, Web upload1, File management

Saving Format

Still Image: JPG, BMP

Video (Windows): WMV, MPG, AVI

Video (Mac): MOV