




VHX-1000E
Digital Microscope



*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

 This model has been discontinued.
Compliance with the certification standard is ensured as of the time of shipment from our company.

Contact Us: 1-888-539-3623

Recommended Replaceable Products: [Digital Microscope - VHX-X1](#)

Specifications

Model		VHX-1000E	
Camera	Image capture device		1/1.8-inch, 2.11 million-pixel CCD image sensor Total pixels : 1688 (H) x 1248 (V) Effective pixels : 1628 (H) x 1236 (V) Virtual pixels : 1600 (H) x 1200 (V)
	Scan method		Progressive
	Frame rate		15 F/s, 28 F/s switchable
	Resolution	2 million pixels	1600 (H) x 1200 (V) Approx 1000 TV lines
		6 million pixels	1600 (H) x 1200 (V) Approx 1200 TV lines 2 million pixels x 3 CCD mode (Excellent color reproducibility)*1
		8 million pixels	3200 (H) x 2400 (V) Approx 1600 TV lines*2
		18 million pixels	4800 (H) x 3600 (V) Approx 2000 TV lines or more*2
		54 million pixels	4800 (H) x 3600 (V) Approx 2000 TV lines 18 million pixels x 3 CCD mode (Excellent color reproducibility)*3
	High Dynamic Range		16-bit resolution through RGB data from each pixel
	Gain		AUTO, NORMAL, PRESET
	Electronic shutter		AUTO, MANU, OFF, 1/15, 1/30, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/9000, 1/19000
	Supercharge shutter		0.2 sec. to 17 sec. Can be set in increments of 0.1 sec.
	White balance		Auto, Manual, One-push set, Preset (2700K, 3200K, 5600K, 9000K)
	Back-focus adjustment		Not required
LCD monitor	Size		Color LCD (TFT) 17***4
	Panel size		365.76 (H)x228.60 (V)mm 14.40" (H) x 9.00" (V)*4
	Pixel pitch		0.1905 (H) x 0.1905 (V) mm 0.008" (H) x 0.008" (V)*4
	Number of pixels		1920 (H) x 1200 (V) (WUXGA)*4
	Display color		Approx 16,770,000 colors *5*4
	Brightness		270 cd/m ² (typ.)*4
	Contrast ratio		450 : 1 (typ)*4
	Viewing angle		±80° (typ., horizontal), ±70° (typ., vertical)*4
CD-R/CD-RW/DVD drive unit	Unit		DVD-ROM drive unit

CD-R/CD-RW/DVDdrive unit	Speed	CD-R/CD-RW : 24x Write, 24x Re-write, 24x Read, DVD : 8x Read
CD-R/CD-RW/DVD drive unit	Used disk	CD-R/CD-RW/DVD
	Storage capacity	700 MB, Approx 3500 images (When a 2 million-pixel image is compressed) to Approx 117 images (When a 2 million-pixel image is not compressed)
Hard disk drive unit		160 GB (including 45 GB reservation area), Approx 575,000 images (When a 2 million-pixel image is compressed) to Approx 19,000 images (When a 2 million-pixel image is not compressed)
Image format		JPEG/HD Photo (With compression), TIFF (No compression)
Observable image size		10000 (H) pixels x 10000 (V) pixels (when stitched)
Light source	Lamp	12 V, 100 W, Halogen lamp
	Lamp life	1000 hours (average)
	Color temperature	3100 K (at maximum light intensity)
Video output		DVI (1920 x 1200 pixels)
Video output	Scanning frequency	75 kHz (H), 60 Hz (V)
	Special LCD monitor External monitor	
Input	Mouse input	Supports USB mouse
	Keyboard input	Supports USB keyboards
	External remote input	Pause/Recording, Non-voltage input (Contact/Noncontact)
Interface	LAN	RJ-45 (10BASE-T/100BASE-TX/1000BASE-T)
	USB 2.0 Series A	8 types
Software	Video recording software	Functions for recording/reproducing moving images
	High quality Depth Composition Software	Functions for composing a single image from a plurality of images obtained by focusing on and capturing an image of each portion of the target that is of a different height
	Real time Depth Composition Software	Displays full-focused images in real-time at the turn of the focus adjustment dial.
	Image improvement software	Image processing functions for correcting images to make observation easier
	Comment input software	Function for inputting and displaying comments such as letters, marks, or the like in an observation image
	Area measurement software	Measures areas of 2D images.
	Screen splitting software	Function for splitting an image vertically, horizontally, or into four parts, and displaying the image
Dimensions		420 x 416 x 181 mm 16.54" x 16.38" x 7.13" (when stored)
Rating	Power voltage	100 to 240 VAC, 50/60 Hz
	Power consumption	340VA
Environmental resistance	Ambient temperature	+5 to +40 °C 41 to 104 °F
	Relative humidity	35 to 80 % RH (No condensation)
Weight	Controller	Approx 11.6 kg
	Camera unit	Approx 1.00 kg (VHX-1100), Approx 0.90 kg (VHX-1020)
	Console	Approx 0.30 kg

*1 2 million pixels x 3 CCD modeSupports only the multi-scan camera VHX-1100.

*2 Supports only the multi-scan camera VHX-1100.

*3 18 million pixels x 3 CCD modeSupports only the multi-scan camera VHX-1100.

*4 The LCD monitor provided in the VHX Series is based on extremely advanced technology. Rarely, an unlit part (black spot) or lit part (bright spot) may exist on the monitor screen. However, this is not an indication of the LCD monitor being defective.

*5 Approximately 16,770,000 pixels are realized with the dithering processing of the display controller.