



VHX-6000
Digital Microscope: Controller



SPECIFICATIONS

Model	VHX-6000		
Camera	Image sensor	1/1.8-inch CMOS image sensor Virtual pixels: 1600 (H) × 1200 (V)	
	Scanning system	Progressive	
	Frame rate	50 F/s (max.)	
	High Dynamic Range	16-bit intensity range through RGB data from each pixel	
	Gain	Auto, Manual, Preset	
	Electronic shutter	Auto, Manual, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/9000, 1/19000	
	Supercharge shutter	0.02 to 4 s	
	White balance	Push set, Auto, Manual, Preset (2700K, 3200K, 5600K, 9000K)	
	Back-focus adjustment	Not required	
	LCD monitor	Size	Color LCD (IPS) 23" ^{*1}
Panel size		509.184 (H) × 286.416 (V) mm 20.05"(H) × 11.28"(V) ^{*1}	
Pixel pitch		0.2652 (H) × 0.2652 (V) mm 0.01"(H) × 0.01"(V) ^{*1}	
Number of pixels		1920 (H) × 1080 (V) (FHD) ^{*1}	
Display colors		Approx. 16770000 colors ^{*2}	
Brightness		300 cd/m ² (Center 1 Point, typical) ^{*1}	
Contrast ratio		1000:1 (typical) ^{*1}	
Field of view		±89° (typ., horizontal), ±89° (typ., vertical) ^{*1}	
CD-R/CD-RW/DVD drive unit	Unit	DVD-ROM super-multi drive unit	
	Applicable disk	CD-R/CD-RW/DVD±R/DVD±R DL/DVD±RW/DVD-RAM	
	Storage capacity	8.7 GB (when using DVD±R DL)	
Hard disk drive unit	500 GB (including 165 GB reserved area) Approx. 1680000 images (when a 2-million-pixel image is compressed) to approx. 55000 images (when a 2-million-pixel image is not compressed)		
Image format	JPEG (with compression), TIFF (without compression)		
Observable image size	20000 (H) × 20000 (V) pixels (when stitched)		
Light source	Lamp	High-brightness LED	
	Lamp life	40000 hours (reference)	
	Color temperature	5700K (typical)	
Video output	Output method	DVI-I (1920 × 1080 pixels)	
	Scanning frequency	Special LCD monitor	66 kHz (H), 60 Hz (V)
		External monitor	
Input	Mouse input	USB mouse supported	
	Keyboard input	USB keyboard supported	
	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	6 types	
	USB 3.0 Series A	2 types	
Power supply	Power voltage	100 to 240 VAC, 50/60 Hz	
	Power consumption	280 VA	
Environmental resistance	Ambient temperature	+5 to +40 °C 41 to 104 °F	
	Relative humidity	35 to 80 % RH (No condensation)	
Weight	Controller	Approx. 12.5 kg	
	Camera unit	Approx. 1.2 kg (VHX-6100/6020)	
	Console	Approx. 0.5 kg	
Dimensions (Excluding the projected areas)	550 (W) × 470 (H) × 200 (D) 21.65"(W) × 18.50"(H) × 7.87"(D) (when stored)		

^{*1} The LCD monitor provided with the VHX Series is based on advanced technology. Rarely, an unlit pixel (black spot) or lit pixel (bright spot) may exist on the monitor screen. However, this is not an indication of the LCD monitor being defective.

^{*2} Approx. 16.77 million colors can be reproduced with the FRC processing of the display controller.