

Vision MINI Smart Camera General Specifications

Physical Characteristics

P/N / Model	Lens Type	Dimensions	Weight	Connector
GMV-6300-2110G	Fixed Lens	1" (25.4 mm) x 1.80" (45.7 mm) x 2.10" (53.3 mm)	2 oz. (57 g)	3 ft. cable terminated with high density 15-pin D-sub socket connector and USB Type B socket connector
GMV-6300-2112G				
GMV-6300-2210G				
GMV-6300-2212G				
GMV-6300-2172G				
GMV-6300-2272G				
GMV-6300-2100G				
GMV-6300-2102G				
GMV-6300-2200G				
GMV-6300-2202G				
GMV-6300-2104G				
GMV-6300-2106G				
GMV-6300-2114G				
GMV-6300-2116G				
GMV-6300-2204G				
GMV-6300-2206G				
GMV-6300-2214G				
GMV-6300-2216G				

Optics

P/N / Model	Sensor	Shutter	Pixel Size	Focal Range	Image Acquisition
GMV-6300-2110G	1/2", SXGA (1280 x 1024) CMOS, up to 15 FPS, Mono	Software-adjustable, 10 μs to 16.7 ms; Rolling Shutter	5.2 um x 5.2 um	2 to 6" (50.8 mm to 152.4 mm – autofocus)	Progressive scan, square pixel
GMV-6300-2112G					
GMV-6300-2210G			3.2 um x 3.2 um		
GMV-6300-2212G					
GMV-6300-2172G	1/2", QXGA (2048 x 1536) CMOS, up to 5 FPS, Color				
GMV-6300-2272G					
GMV-6300-2100G	1/3", WVGA (752 x 480) CMOS, up to 60 FPS, Mono	Software-adjustable, 10 μs to 16.7 ms; Global Shutter	6.0 um x 6.0 um		
GMV-6300-2102G					
GMV-6300-2200G		Software-adjustable, 10 μs to 16.7 ms; Global Shutter			
GMV-6300-2202G					
GMV-6300-2104G					
GMV-6300-2106G					
GMV-6300-2114G	1/2", SXGA (1280 x 1024) CMOS, up to 15 FPS, Mono	Software-adjustable, 10 μs to 16.7 ms; Rolling Shutter	5.2 um x 5.2 um		
GMV-6300-2116G					
GMV-6300-2204G	1/3", WVGA (752 x 480) CMOS, up to 60 FPS, Mono	Software-adjustable, 10 μs to 16.7 ms; Global Shutter	6.0 um x 6.0 um		
GMV-6300-2206G					
GMV-6300-2214G	1/2", SXGA (1280 x 1024) CMOS, up to 15 FPS, Mono	Software-adjustable, 10 μs to 16.7 ms; Rolling Shutter	5.2 um x 5.2 um		
GMV-6300-2216G					

Communications, I/O, Illumination, Laser Output

P/N / Model	Comm.	Discrete I/O	Indicators	Illumination
GMV-6300-2110G	RS-232, USB 1.1 (Ethernet emulation mode driver available)	Trigger Input: 5 to 28VDC rated (.16 mA); Input 1: 5 to 28VDC rated (.16 mA); Outputs (1, 2, 3): 5V TTL compatible, can sink 10 mA and source 10 mA; Optional I/O: Optoisolated (with IC-332 accessory)	LEDs: Trigger, Pass, Fail, Mode, Power, Link/Act; Green Flash: Pass; Blue V: Target	Red @ 617nm
GMV-6300-2112G				
GMV-6300-2210G				
GMV-6300-2212G				
GMV-6300-2172G				White
GMV-6300-2272G				
GMV-6300-2100G				
GMV-6300-2102G				
GMV-6300-2200G				
GMV-6300-2202G				
GMV-6300-2104G				
GMV-6300-2106G				
GMV-6300-2114G				
GMV-6300-2116G				
GMV-6300-2204G				
GMV-6300-2206G				
GMV-6300-2214G				
GMV-6300-2216G				Red @ 617nm

Power

P/N / Model	Power
GMV-6300-2110G	5VDC +/- 5%, 200 mV p-p max. ripple, 465 mA @ 5VDC (typ.), 4.5 watts (max.)
GMV-6300-2112G	
GMV-6300-2210G	
GMV-6300-2212G	
GMV-6300-2172G	5VDC +/- 5%, 200 mV p-p max. ripple, 400 mA @ 5VDC (typ.), 4.2 watts (max.)
GMV-6300-2272G	
GMV-6300-2100G	5VDC +/- 5%, 200 mV p-p max. ripple, 400 mA @ 5VDC (typ.), 4.0 watts (max.)
GMV-6300-2102G	
GMV-6300-2200G	
GMV-6300-2202G	
GMV-6300-2104G	5VDC +/- 5%, 200 mV p-p max. ripple, 400 mA @ 5VDC (typ.), 4.0 watts (max.)
GMV-6300-2106G	
GMV-6300-2114G	5VDC +/- 5%, 200 mV p-p max. ripple, 465 mA @ 5VDC (typ.), 4.5 watts (max.)
GMV-6300-2116G	
GMV-6300-2204G	5VDC +/- 5%, 200 mV p-p max. ripple, 400 mA @ 5VDC (typ.), 4.0 watts (max.)
GMV-6300-2206G	
GMV-6300-2214G	5VDC +/- 5%, 200 mV p-p max. ripple, 465 mA @ 5VDC (typ.), 4.5 watts (max.)
GMV-6300-2216G	

Operating Environment; Agency Compliance

P/N / Model	Operating Temperature	Storage Temperature	Humidity	Enclosure	Agency Compliance
GMV-6300-2110G	0° to 40° C (32° to 104° F)	–50° to 75° C (–58° to 167° F)	Up to 90% (non-condensing)	IP54 (category 2)	FCC, UL/cUL, CE (General Immunity for Light Industry: EN 55024 ITE Immunity Standard; Radiated and Conducted Emissions of ITE Equipment: EN 55022 ITE Disturbances), CB, RoHS/WEEE
GMV-6300-2112G					
GMV-6300-2210G					
GMV-6300-2212G					
GMV-6300-2172G					
GMV-6300-2272G					
GMV-6300-2100G					
GMV-6300-2102G					
GMV-6300-2200G					
GMV-6300-2202G					
GMV-6300-2104G					
GMV-6300-2106G					
GMV-6300-2114G					
GMV-6300-2116G					
GMV-6300-2204G					
GMV-6300-2206G					
GMV-6300-2214G					
GMV-6300-2216G					