

ALC-Tech (M) Sdn Bhd (610609-M)

TEL: (603) 62801650 TEL: (607) 559 1650 TEL: (604) 262 1650

Email: sales@alcaidc.com

MV-GD500-180GM/C/N V4

25-Megapixel 1.1" CMOS Gigabit Ethernet Industrial Area Scan Camera

The **MV-GD500-180GM/C/N V4** is a high-end area scan camera featuring the **Gpixel GMAX0505 CMOS sensor**, offering low noise, high resolution, and excellent image quality. It transmits uncompressed images in real time via a **Gigabit Ethernet interface**, with a **maximum frame rate of 4.5 fps**.

Key Features

- 25-megapixel resolution with 2.5 µm pixel size
 - Compact size compatible with **C-mount lenses**
 - Flexible installation with mounting holes on both top and bottom panels
 - Supports **Lens Shading Correction (LSC)**
 - Gigabit Ethernet interface with up to **100m transmission distance** (without repeater)
 - Compatible with **GigE Vision V2.0** protocol and **GenICam** standard, ensuring seamless integration with third-party software
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Ordering Model

- **MV-GD500-180GM V4** – Monochrome camera
 - **MV-GD500-180GC V4** – Color camera
 - **MV-GD500-180GN V4** – Near-infrared camera
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Applications

- SMT/PCB AOI inspection
 - FPD (Flat Panel Display) inspection
 - Railway-related inspection systems
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Technical Specifications

Parameter	MV-GD500-180GM V4	MV-GD500-180GC V4	MV-GD500-180GN V4
Sensor Type	CMOS, Global Shutter	CMOS, Global Shutter	CMOS, Global Shutter
Sensor Model	Gpixel GMAX0505	Gpixel GMAX0505	Gpixel GMAX0505
Pixel Size	2.5 μm x 2.5 μm	2.5 μm x 2.5 μm	2.5 μm x 2.5 μm
Resolution	5120 x 5120	5120 x 5120	5120 x 5120
Frame Rate	4.5 fps	4.5 fps	4.5 fps
Dynamic Range	63 dB	63 dB	63 dB
Signal-to-Noise Ratio	36 dB	36 dB	36 dB
Gain	0–24 dB	0–24 dB	0–24 dB
Exposure Time	12 μs – 10 s	12 μs – 10 s	12 μs – 10 s
Power	9–24 VDC / PoE supported	9–24 VDC / PoE supported	9–24 VDC / PoE supported
Power Consumption	3.1 W	3.2 W	3.1 W
Interface	Gigabit Ethernet (1000 Mbps)		

Parameter	MV-GD500-180GM V4	MV-GD500-180GC V4	MV-GD500-180GN V4
Lens Mount	C-Mount		
Dimensions	29 mm × 44 mm × 59 mm		
Weight	Approx. 100 g		
Protection	IP40 (with proper lens/cable installation)		
Operating Temperature	0–50°C		
Storage Temperature	-30–80°C		
Humidity	20–95% RH (non-condensing)		
Compliance	CE, RoHS, KC		
Supported Software	MVS, or third-party GigE Vision applications		
OS Compatibility	Windows 7/10/11 (32/64-bit), Linux (32/64-bit)		