Ultra-micro
GigE Area Scan Camera

MV-135GM120-GB

■ 15.8mm ultra narrow single motherboard design

■ The main board is connected with the SENSOR board using soft cable,flexible installation

■ Gigabit network interface, compliant with GigEVision and GenICam protocols

Key Features

- 15.8mm ultra narrow single motherboard design.
- The main board is connected with the SENSOR board using soft cable,flexible installation.
- Flexible cable connection, the longest support 300mm communication distance.
- Gigabit network interface, compliant with GigEVision and GenICam protocols.
- Hardware image processor that optimizes the image for the matching algorithm.
- Built-in large capacity frame buffer to ensure real-time and reliable transmission of multi-camera.
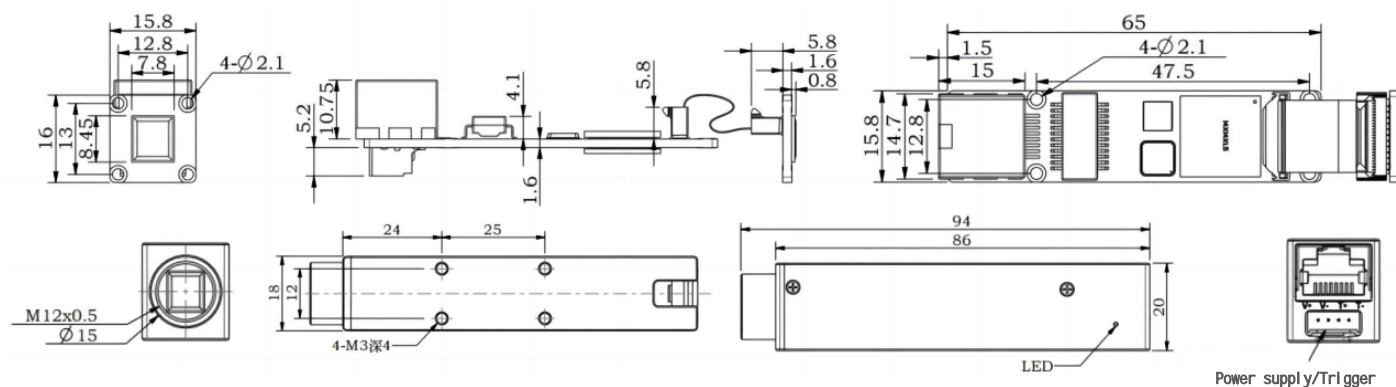
Applications

* Mobile Visual Alignment and recognition
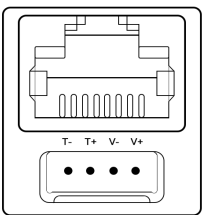
* Fly sweep code, motion detection

Specifications

Model:	MV-135GM120-GB
Pixel	1MP
Sensor Size	Diagonal line: 4mm; 1/4
Color/Mono	Mono
Pixel Size	2.7umx2.7um
Shutter	Global
Resolution	1000×1000
Max Frame Rate	120FPS
Exposure Time	7us-523ms876us
Gain	Gain: 1.0x-32.0x, step: 0.125x
Spectrum of response	300nm-1000nm
Bit depth	10bit
Image format	RAW8/RAW12(Original image)RAW8/RAW16/MONO8/MONO16
Trigger Mode	Hardware Trigger,Software Trigger
Exposure function	Manual exposure/auto exposure/area exposure
Camera ID	Camera factory write ID,at the same time support the user to write ID in the camera

2

Firmware update	Support
Multi-camera support	16 units
Programmable control	Exposure time, gain, destrobing, Gamma, Contrast, black level, sharpness, 2D noise reduction, 3D noise reduction
Photo formats	RAW　BMP　JPG　PNG
Software interfaces	GigEVision,GenlCam,HALCON,LabView,OpenCV
Support system	WindowsXP32Bit,Windows7/8/8.1/10(32/64Bit)
Data interface	GigE
Trigger interface	4 pin Wafer socket
Power supply	DC9-28V　Power dissipation<2W
Work environment	Temperature　-10℃-50℃　Humidity　10%-60%RH　No condensation
Storage environment	Temperature　-30℃-70℃　Humidity　10%-80%RH
Lens mount	M12
Dimensions	20mmx18mmx94mm　Including the shell
Weight	≈ 48g
Standard fittings	3 meters network cable

Dimension(unit:mm)

Interface Definition

PIN	Definition	Description
1	POWER_IN	Power input, DC9-28V
2	GND	Ground
3	TRIFFER+	Trigger positive electrode
4	TRIFFER-	Trigger negative electrode