

Product
 number

MV-ITAE500C/M

Based on Intel N4120(1.1-2.6GHZ) quad-core processor, it supports 0.36 to 20 million pixels, and is fully compatible with the SDK of our GigE and USB cameras. The software developed by customers based on Windows platform can basically be used directly, shortening the development cycle . External USB 2.0 and USB 3.0, each with one input, which can be connected to keyboard, mouse, dongle, etc., and can be connected to our company's UB series cameras, supporting the use of multiple cameras; 2G memory and 32G disk are suitable for general use and more cost-effective, and 4G memory and 64G can be optional disk.



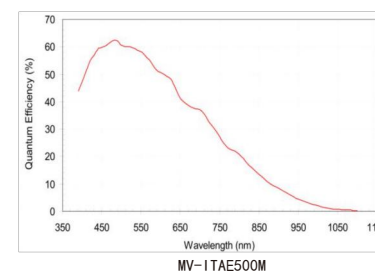
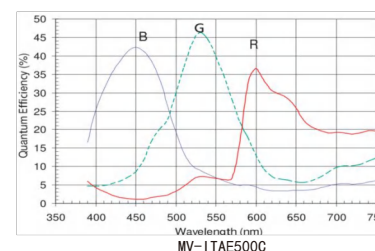
Application industry :

It is suitable for factory automation, aerospace, robot, medical biology, medical biology, logistics code scanning.

Feature of product :

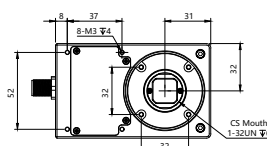
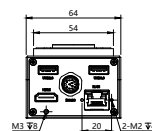
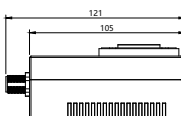
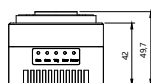
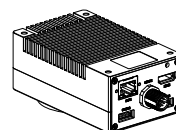
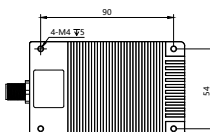
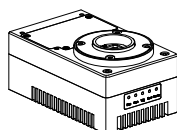
- CPU Intel N4120 (1.1-2.6GHZ).
- 4G/32G 4G/64G (memory/disk), support external USB 2.0 portx1 and USB 3.0 portx1.
- Display HDMIx1, support 1920X1080 resolution.
- Ethernet 1000Mx1, support GigE Vision camera.
- M12 12-core threaded aviation connector, support 24V/2A power input.
- 1-way input, 2-way output interface can set the output delay, no need to process in the program.
- Support trigger x1, Strobe x1, RS232 x1.
- Support Windows10 64bit, Ubuntu16.04 64bit system.
- Built-in one way USB2.0 interface,easy to disassemble, can be connected to dongle.
- Integrated light source controller, optional LED lighting components, support strobe synchronization function.

Spectral response curve :



Mechanical Specification:

unit:mm



MV-ITAE500C/M-T

TECHNICAL PARAMETER

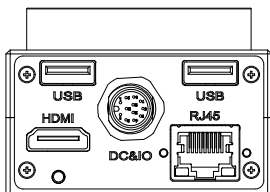
Model	MV-ITAE500C	MV-ITAE500M
Sensor	1/2.5" CMOS	
Sensor type	MT9P006	
Camera type	Color	Mono
Pixel size	2.2umx2.2um	
Effective pixels	5MP	
Resolution @ frame rate	2592X1944@15FPS	
Exposure mode	Line exposure, global start	
Sensitivity	1.76V/lux-s 550nm	
Signal to noise ratio	38.5dB	
GPIO	1 channel trigger, 1 channel flash, 1 channel optical isolation input, 2 channels optical isolation output	
Output pixel width	12bit	
AD width	12bit	
Dynamic range	>67.74dB	
Exposure time range	0.0582~905.1ms	
Maximum gain (multiple)	7.88	
CPU main frequency	N4120(1.1~2.6GHZ) quad-core	
Internal storage	4G	
Magnetic disk	32G/64G(optional)	
Operating system	Default pre-installed Win10 64-bit system, Ubuntu 64-bit system optional	
Video output format	Bayer 8/12bit	Mono 8/12bit
Lens interface	C/CS mount, provide with an adapter ring	
Data interface	External USB2.0 portx1 and USB3.0 portx1, 1000 network port x1, HDMI interface x1, built-in USB2.0 interface x1 Support RS232 interface x1 and RTC clock.	
Power supply	24V	
Power	≤18W	
Boundary dimension	42x105x64(mm)(Lens base and rear shell interface are not included)	
Weight	<500g	
Working temperature	0~50℃	
Working humidity	20~80% (No Condensation)	
Storage temperature	-30~60℃	
Storage humidity	20~95% (No Condensation)	
Drive program	Directshow components Halcon special components Labview dedicated drive OCX components TWAIN components	
Programming language	C/C++/C#/VB6/VB.NET/Delphi/BCB/Python/Java	
Other functions	Support any size ROI custom resolution, contrast and gamma adjustment, saturation adjustment, white balance correction, black level correction, custom dead point coordinate correction,ISP image processing acceleration, 3D noise reduction, custom LUT table, frame rate adjustment, custom camera name, etc.	

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 ⑨ East China Company: 9th Floor, Jizhi Business Plaza, Erquan East Road, Xishan District, Wuxi City, Jiangsu Province

Line order definition:



Type	Pin number	Line color	Signal name	Signal description
ITAE series	1	Black	PWRGND	Camera input negative terminal
	2	Red	PWR24V	Camera input positive terminal
	3	Grey	UART_TX	Serial port sending
	4	Pink	UART_RX	Serial port receiving
	5	Brown	TRIG-	Trigger input negative terminal
	6	White	TRIG+	Trigger input positive terminal
	7	Green	STRB+	Flash output positive terminal
	8	Yellow	STRB-	Flash output negative terminal
	9	Blue	GPIO_COM	GPIO public negative terminal
	10	Light green	GPO3+	GPO3 positive output
	11	Purple	GPO2+	GPO2 positive output
	12	Orange	GPI2	GPI2 positive input

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