

## CHARACTERISTIC

- CPU Intel Atom Z8300 (1.44-1.83GHZ)
- 2G/32G 4G/64G (memory/disk)
- Supports external USB2.0x2 port
- Display HDMIx1, support 1920X1080 resolution
- Ethernet 1000Mx1 with support for GigE Vision cameras
- M12 12-pin connector for 12V/1A power input
- 1 input, 2 output interfaces can set output delay, no need to process in the program
- Support trigger x1, flash x1
- Support serial communication RS232x1
- Supports Windows 10 64bit, Ubuntu16.04 64bit system
- Built-in USB2.0 interface all the way to facilitate disassembly, can be used to connect the dog

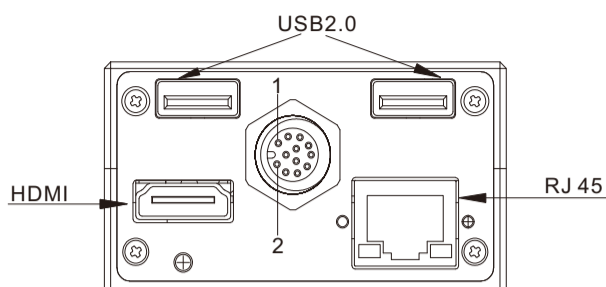


## PARAMETERS

Specifications	Model	MV-ITA1600C-T	MV-ITA1600M-T
Sensor		1/2.3" CMOS	
Mono/Color		Color	Mono
Resolution		16.0MP	
Pixel Size		1.34x1.34μm	
Shutter		Rolling shutter	
Sensitivity		1096mV 1/30S	
Pixel Bit Depth		12	
Frame Rate		4608x3456@12FPS 2304x1296 BIN2@53FPS 2304x1728@40FPS	
Maximum Gain		8	
Exposure time(ms)		0.093-7741	
CPU frequency		1.44-1.83GHZ quad-core	
RAM		2G/4G	
Disk		32G/64G	
System		Windows10 64bit	
Video Output Format		Bayer8、Bayer12、Mono8、Mono12、Mono16、RGB24、RGB32、RGB48	
Interface		External USB2.0x2 port, 1000 network port x1, HDMI interface x1, Built-in USB2.0 interface x1	
I / O port		1 optical isolation trigger input, 1 optical isolation flash output, 1 optical isolation input, 1 optical isolation output, support Rs232x1	
Power Requirements		12V	
Power		Maximum power 12W	
Lens Mount		CS-mount, to provide CS-mount to C-mount adapter ring	
Dimensions		64x105x35mm	
weight		<700g	
Working temperature		0~50℃	
Working humidity		20~80% (No Condensation)	
Storage temperature		-30~60℃	
Storage humidity		20~95% (No Condensation)	
Support system		DirectShow components Halcon special components Labview dedicated drive OCX components TWAIN components	
Programming language		C/C++/C#/VB6/VB.NET/Delphi/BCB/Python	
Programmable control		Image size (ROI), camera, exposure time, GAMMA, contrast, brightness, custom LUT, mirror flip, RGB color gain, saturation, sharpness, color to mono, color temperature correction, anti-color, Color, trigger mode, frame rate control	

## LINE SEQUENCE DEFINITION

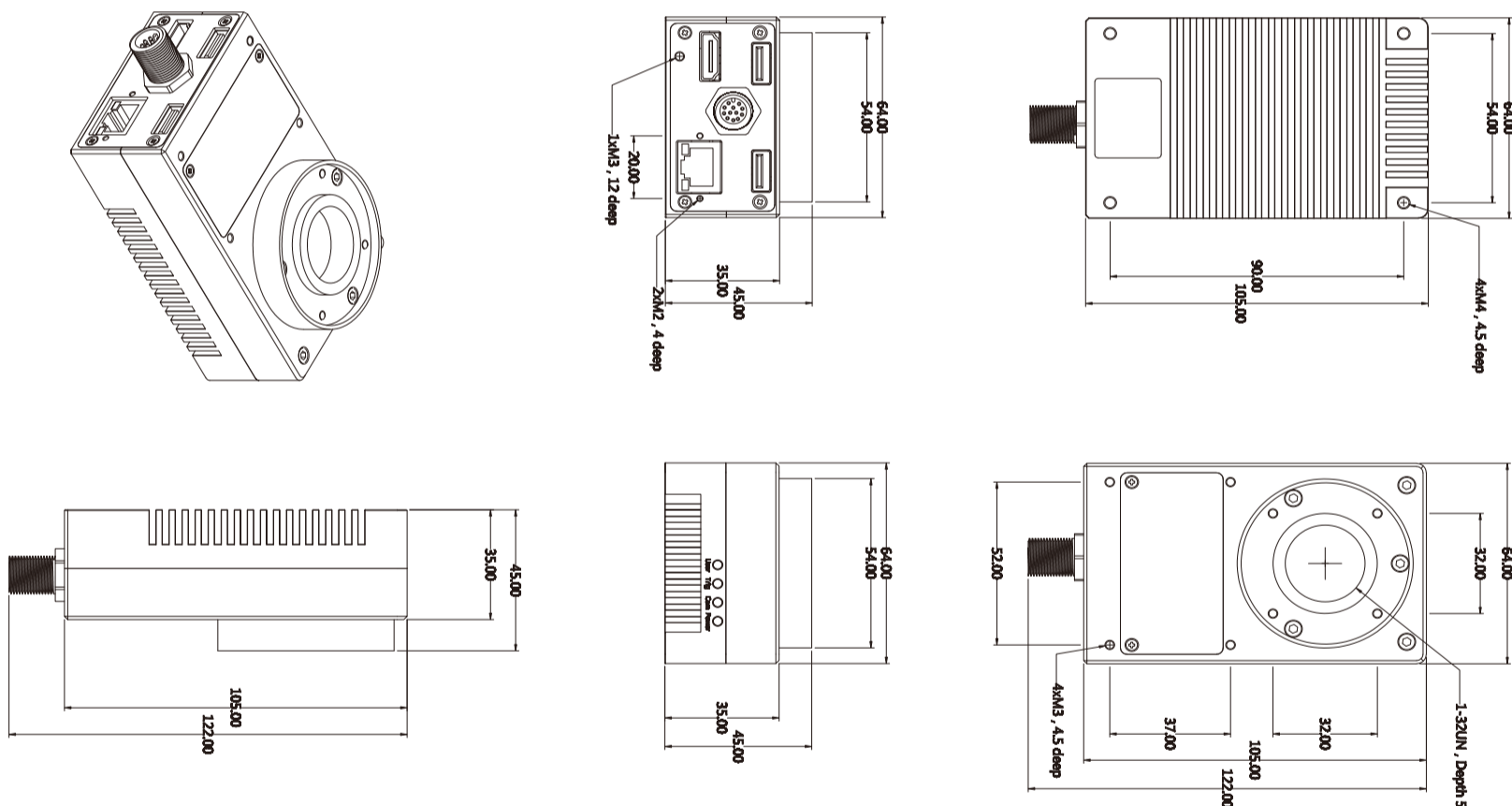
ITA Series



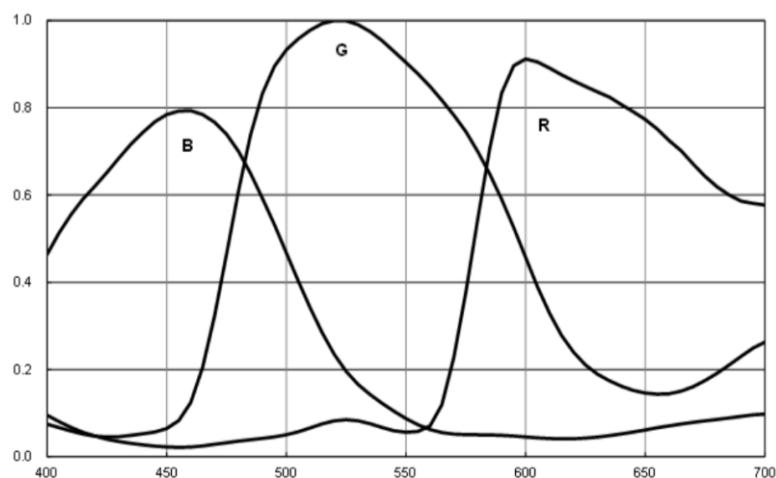
Type	Pin No	Line color	Signal	Description
ITA	1	Black	PWRGND	Camera power input negative
	2	Red	PWR12V	Camera power input positive
	3	Grey	UART_TX	Serial port sending
	4	Pink	UART_RX	Serial port reception
	5	Brown	TRIG-	Trigger input negative
	6	White	TRIG+	Trigger input positive
	7	Green	STRB+	Flash output positive
	8	Yellow	STRB-	Flash output negative
	9	Blue	GPIO_COM	GPIO common negative
	10	lilac	GP02+	GP02 positive output
	11	Purple	GP03+	GP03 positive output
	12	Orange	GP02	GP02 positive input

## MECHANICAL SPECIFICATION

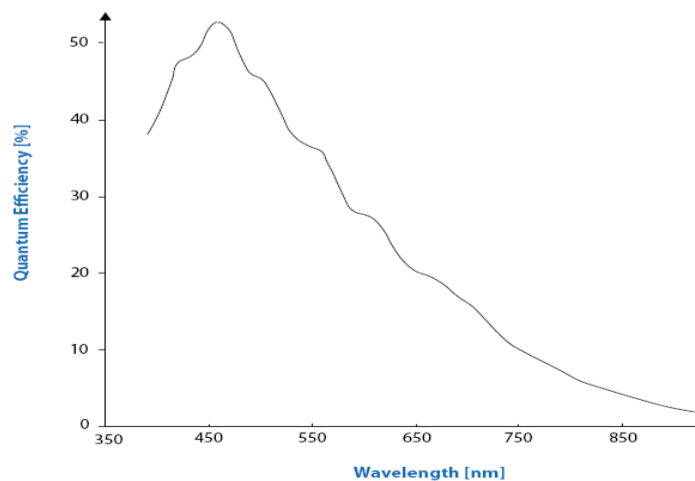
Unit:mm



## SPECTRUM



MV-ITA1600C-T



MV-ITA1600M-T