



PicSight.com

G43B-Smartx02-AR

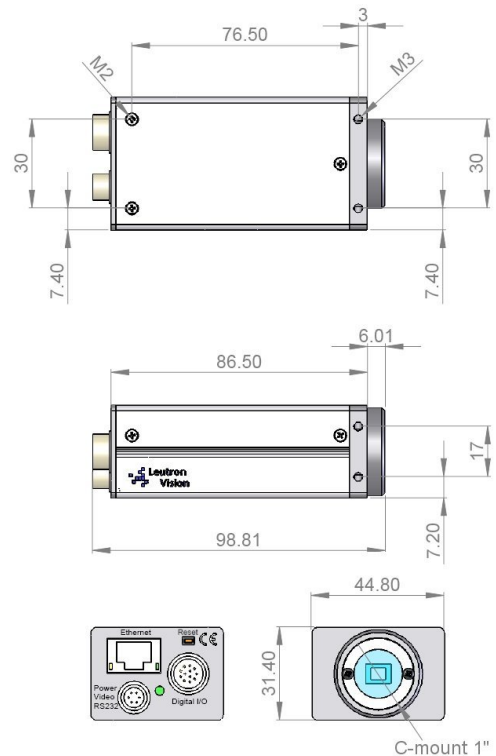
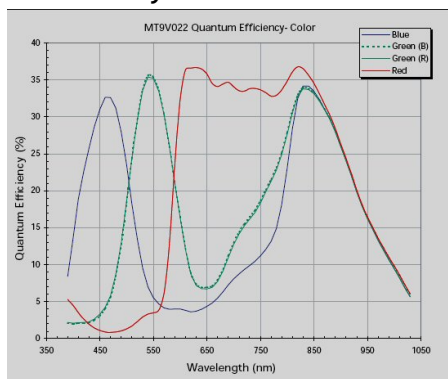
Smart GigE color camera

- 1/3 inch progressive scan CMOS
- 752 × 480 square pixels
- 64 fps, 10-bit image data
- high quality bayer decoder
- async reset, full frame shutter
- trigger in, strobe out, video out (CVBS)
- 32-bit RISC processor
- real-time operating system





1/3" CMOS Sensor	Micron MT9V022
Readout	parallel readout
Sensor size (H×V)	4.51 × 2.88 mm
Output image resolution (H×V)	752 × 480 pixels
Pixel size	6 × 6 μm
Color	bayer pattern
Scan	progressive
Frame rate	64 frames/sec
Shutter	global
Max. shutter time	20 ms
Min. shutter time	29 μs
Lens mount	C-mount
Optional lens mount	90-degree C-mount
Spectral sensitivity	



Interface	
Ethernet	10/100/1000 Mbit/sec
Processor — G43B-Smart502-AR	PNX0192/300MHz 64MB RAM, 32MB Flash
Processor — G43B-Smart702-AR	PNX1702/500MHz, Hardware FPU 256MB RAM, 64MB Flash
Digital input	2× Optocoupler, 1× TTL
Digital output	3× Optocoupler, 1× TTL
Power req. 12 V/6W	G43B-Smart (old version)
Power req. 10-26V/5W	G43B-Smartx02-AR
Weight	145 g
Operating temperature	0–50 °C
Realtime function	
FPGA XC3S500E	Bayer decoder, Look up table
Embedded software	
Compiler/OS	C, C++/Real-time OS
Host (PC) software	
GigE Vision	Any GigE Vision API
API LV-SDS	C, C++, OCX, .Net
Configuration	Web interface
Application upload	FTP

Hirose 12-pin connector, male, HR10A-10R-12PB-71		Hirose 6-pin connector, male, HR10A-7R-6PB-73	
Pin	Signal	Pin	Signal
1	Opto Output Tap	1	TXD Output
2	Opto Output Common Emitter	2	RXD Input
3	Opto Output Collector 0	3	Ground
4	Opto Output Collector 1	4	Video Out (CVBS)
5	Opto Output Collector 2	5	Ground
6	G43B-Smart-Ax: TTL output, G43B-Smart: Opto Output Collector 3	6	Power Input
7	Power Input		
8	Opto Input 1		
9	Opto Input 0		
10	Opto Input Common		
11	Trigger Input TTL		
12	Ground		

Ordering numbers		
Number	Product name	Option
411650	PicSight G43B-Smart702-AR	
411651	PicSight G43B-Smart702-AR-H	90° lens mount
100600	PicSight G43B-Smart502-AR	
100601	PicSight G43B-Smart502-AR-H	90° lens mount
999010	Mounting plate	For GigE/Smart cameras
999020	Mounting plate	For GigE-H/Smart-H cameras
16028	LV-SDS	Software API

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