

Scientific CMOS Camera



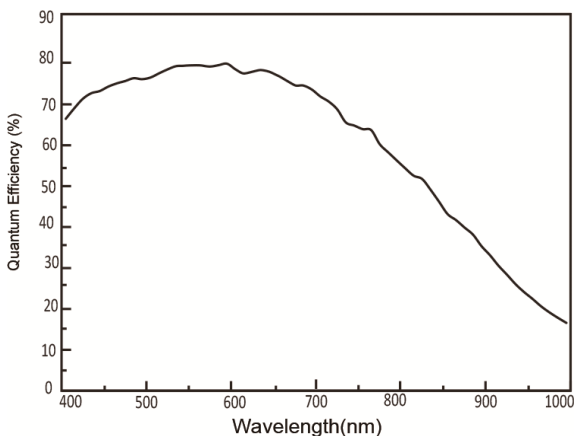
Applications

Primarily used for short exposure time low light imaging, fluorescence imaging etc.

Product Advantage

1. Low readout noise(1.8e-)
2. 48000e⁻ full well capacity
3. 85dB dynamic range
4. 80 % @625 nm high quantum efficiency
5. 2MP, 64fps high frame rate preview
6. USB 3.0 power supply
7. USB3.0 output with hardware trigger functions

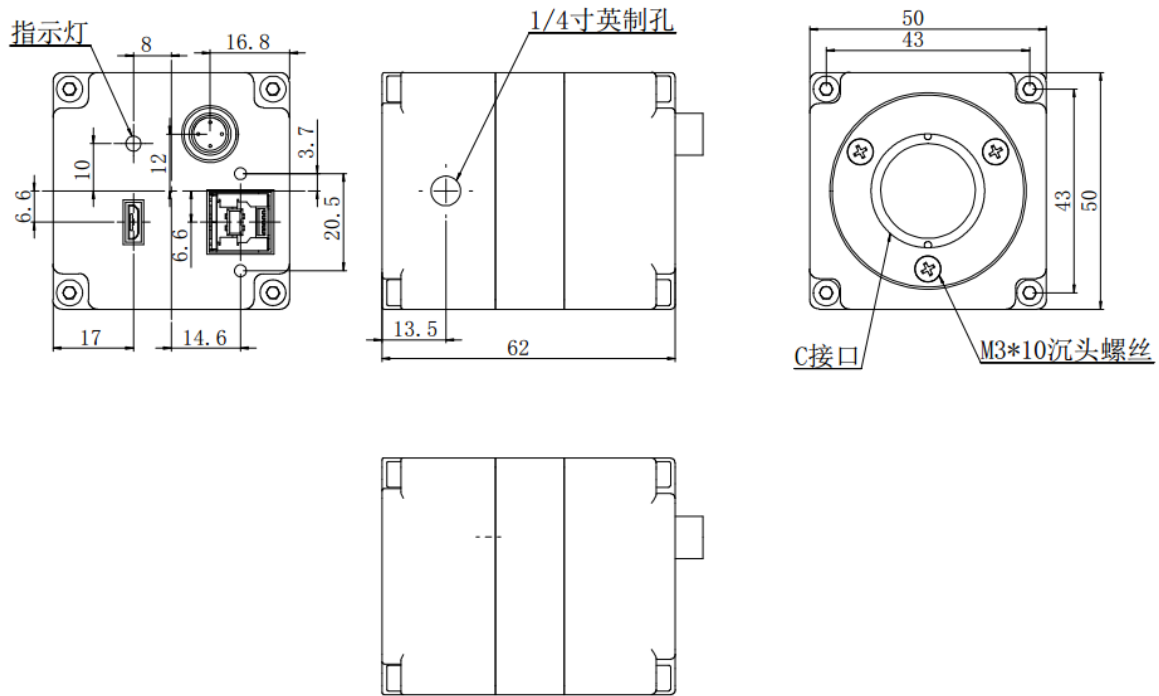
Date Graphics



Technical Specification

Product model	S-200-M-R-U	S-400-M-R-U
Image Sensor		
Type	sCMOS	sCMOS
Size	1 inch	1.2 inch
Model	G2011	G2020
Color/Monochrome	Monochrome	
Active Pixels	2MP	4MP
Image Resolution	2048x1152	2048x2048
Pixel Size	6.5µm x 6.5µm	
Performance Parameters		
QE	80% @625nm	
Readout Noise	1.8e-	
Sensitivity Threshold	3p-	
Full Well Capacity	48000e-	
PRNU	0.60%	
DSNU	0.01%	
Linearity	0.998	
Image Capture		
Dynamic Range	85dB	
Shutter Type	Rolling	
Exposure Control		
Exposure Mode	Manual	
Exposure Time	0.02ms-10min	
Image Processing		
Parameter Setting	ROI, Gamma, Contrast, External trigger	
Scan Mode	Progressive	
A/D	16bit	
Cooling	N/A	
Preview		
Frame Rate	64fps (2048x1152)	36fps (2048x2048)
Data Transmission	USB3.0	
Date Cabal	1.8meter USB3.0 cabal	
Interface		
Optical Interface	C mount	
Date Interface	USB3.0/5Gb/s	
Power Interface	USB 3.0 Micro USB 2.0(optional)	

Demisions



Applications Case



Uav monitoring at night