

## Sub-Miniature Low Light

### SCMOS Camera



#### Applications

Life science instrumentation.

Hand Held, battery powered instruments.

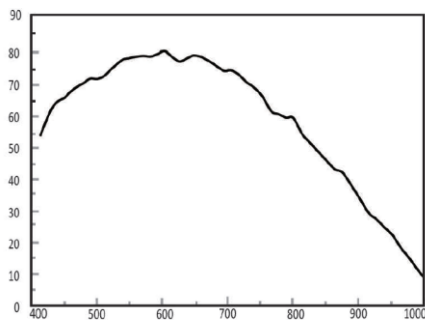
Portable laboratory equipment.

Security monitoring

#### Product Advantages

1. Low readout noise (1.8e<sup>-</sup>)
2. 48,000e<sup>-</sup> full well capacity
3. 85 dB dynamic range
4. 4MP, 35fps high frame rate preview
5. Low Power Consumption (<2W)
6. Compact (38x38x44mm)
7. Light weight (<250g)

#### Data Graphics



### Technical Specification

<b>Product Model</b>	<b>S-200-M-R-F/U/H</b>
<b>Image Sensor</b>	
Sensor Type	SCMOS
Sensor Size	1 inch
Color/Monochrome	Monochrome
Effective Pixels	2MP
Image Resolution	2048x1152
Pixel Size	6.5µm x 6.5µm
<b>Camera Parameters</b>	
Quantum Efficiency	80 % @ 625nm
Readout Noise	1.8e <sup>-</sup>
Sensitivity Threshold	3p <sub>e</sub>
Full-well Capacity	48000e <sup>-</sup>
Linearity	0.998
Dynamic Range	85dB
Shutter Type	Rolling shutter
<b>Exposure Control</b>	
Exposure Mode	Manual/auto/ trigger
Exposure Time	0.02ms~1min
<b>Image Processing</b>	
Image Processor	Built-in ISP
Settings	Gamma, contrast, external trigger
Image Algorithm	Defogging, Enhance, Denoise
Scan Mode	Progressive
A/D	16 bit
<b>Preview &amp; Transmission</b>	
Frame Rate	64fps @ USB3.0
	60fps @ HDMI
	30fps @ BT656
Data Cable	USB3.0, HDMI, BT656
<b>Interface</b>	
Optical Interface	C mount
Power Interface	12V/1A
Power Consumer	1.2W ( Low-power ), 2.5W ( Full function )
Dimension ( mm )	Camera: 38x38x44
	PCB: 32x32x24
Weight ( g )	Camera: 125g
	PCB: 30g

## Dimensions

