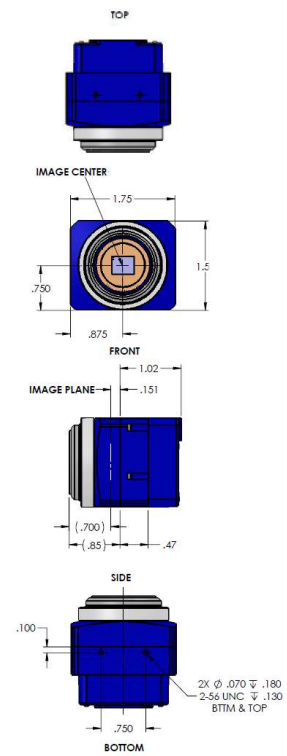




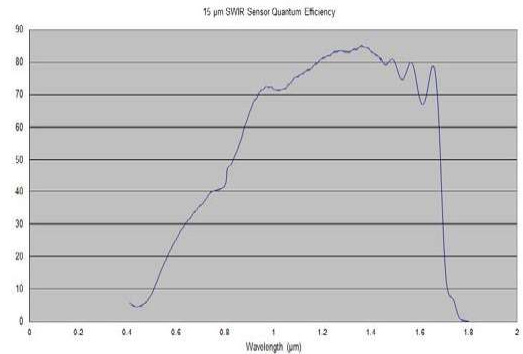
# SYSTEM FEATURES

- 640 x 512 resolution, 30fps as default setting (29.97 fps in NTSC mode)
- 15-bit digitization for video
- Low read noise of <55e- rms
- Imaging or ALPD mode
- Extended spectral response from 0.6 $\mu$ m to 1.7 $\mu$ m
- Snapshot image capture (to avoid rolling shutter artifact)
- Programmable operation (NUC, AGC, Trigger)
- Camera Link and NTSC
- Mil-spec environment
- Internal “free running” mode or external trigger configurable
- Custom housings and configurations available

M1		
PARAMETER	VALUE	COMMENTS
Sensor Type	InGaAs	
Sensor Readout	Full-frame	Snapshot Mode
Image Format	640 x 512	
Pixel Size	15 $\mu$ m x 15 $\mu$ m	
Active Area	100% fill factor	
Spectral Response	0.6 $\mu$ m to 1.7 $\mu$ m	See QE plot
Read Noise	<40e- rms	Typical
Total Noise	<60e- rms	20°C sensor temperature
Frame Rate	30Hz up to 60Hz	
Dynamic Range	70dB	Typical
Power Dissipation	5 Watts	Typical at 30° case
MECHANICAL		
Housing Material	Aluminum	
Lens Mount	C-mount/M42	Other mounts available
Weight	< 4oz	
Dimensions	1.75" x 1.5" x 1.8"	See drawing
POWER AND SIGNAL INTERFACE		
Power Input	+12VDC	Omnetics A22045-001
Data	Base Camera Link®	NTSC also available
Trigger/Sync		Samtec MCX and Camera Link® CC1
Mode Control	Serial port	Via Camera Link®
ENVIRONMENTAL		
Operating Temp	-30°C to +60°C	Full Performance
	-40°C to +70°C	Degraded performance (random noise)
Storage Temp	-50°C to +85°C	
Humidity	Up to 90%	Non-condensing



Typical Spectral



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contactus@scdusa.com • (321) 652 8056 • www.scdusa-ir.com • Colorado Springs, Colorado

