

## 512 x 512 Imaging Array

## 24 $\mu\text{m}$ Pixel Size

ProLine sets the standards in key performance areas that include: download speeds, cooling, low noise operation, anti-ghosting technology, image quality, and linearity. ProLine download speeds are fast while maintaining low noise frame quality. ProLine achieves outstanding cooling without water assist. simply set the ProLine cooling where you want it and the camera will do the rest -- quickly and without worries. ProLine frame quality is second to none thanks to careful design, implementation, and setup. All cameras are assembled in our clean room under exacting conditions and must pass a battery of tests before being shipped.



### Features

### Benefits

Features	Benefits
	Fast Image capture with full 16-bit resolution
512 x 512 Array with 24 $\mu\text{m}$ pixels	Resolves fine detail
Flexible binning and readout	Increases frame rate
	Excellent low-noise imaging
Excellent quantum efficiency	High sensitivity for fast image acquisition
	Wide variety of optical choices
Acquisition software included	Ease of integration with open source SDK
USB 2.0 interface	Industry standard connectivity; fast data transfer



## Engineering Excellence

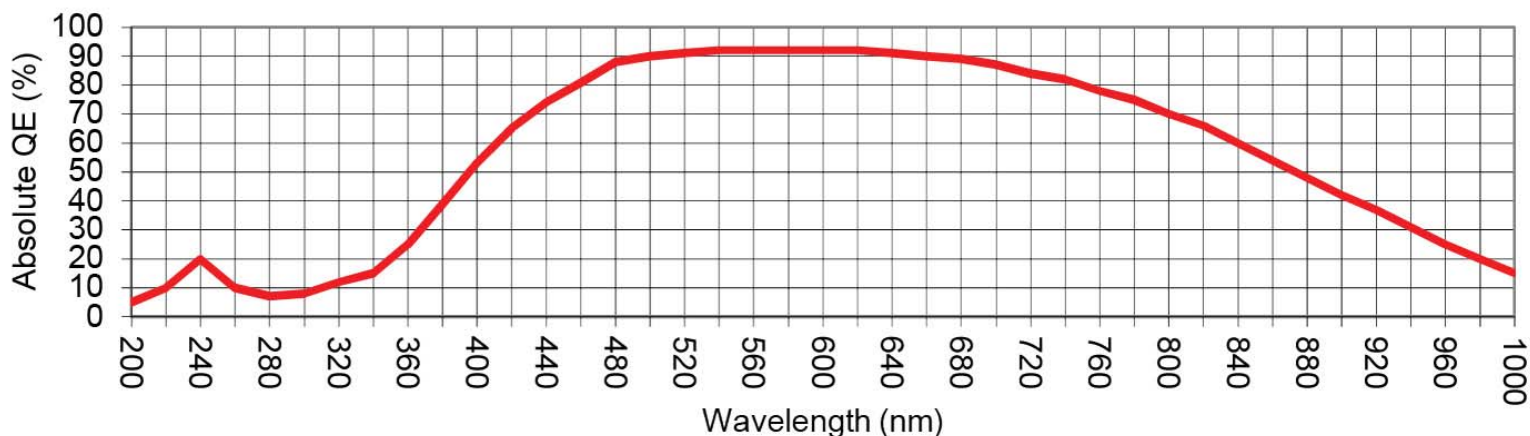
*Because Your Image Depends On It.*

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## Sensor Specifications (from manufacturer)

<b>Sensor</b>	e2v CCD77-00-1-358	<b>Sensor Size</b>	12.2 X 12.2 mm	<b>Megapixels</b>	0.25
<b>Pixels</b>	512 x 512	<b>Sensor Diagonal</b>	17.2 mm	<b>Video Size (inch)</b>	1.1
<b>Pixel Size</b>	24 $\mu$ m	<b>CCD Variants</b>	MB	<b>CCD Grades</b>	1
<b>Full Well Capacity</b>	350000 electrons	<b>CCD Variants</b>	MB	<b>Anti-Blooming</b>	NA
<b>Color Options</b>	Monochrome only	<b>CCD Grades</b>	1		
<b>CCD Type</b>	Full frame				

## Sensor Quantum Efficiency (Absolute)



## Camera Performance

### Typical Maximum Cooling

**Temperature Stability** 0.1°C

**Digitization Speed**

**Typical System Noise**

**Housing Dimensions** 6.2 X 6.2 X 3.8 inches (15.7 X 15.7 X 9.6 cm)

**Focal Plane to Face Plate** 21 mm

**Lens Mounts** Optional Nikon F-mount or Canon EOS mount

**Interface** USB 2.0

**Available Shutters** 65 mm

**External Triggering** Standard

**Environment** -30°C to 45°C | 10% - 90% Relative Humidity

**Power** 12V (100-240V AC to 12V DC power supply included). With TEC off: <1A.  
TEC at 100%: 4.6A. Shutter open: 4A pulse for 100msec. Shutter held open, add 0.22A.

### Dark Current (typical)

**Cooling Method** Air (Optional liquid)

**Non-Linearity** <1%

**Weight** 5.85 lbs (2.6 kg)

**Camera Channels**

**Shutter MTBF** 1000000



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