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## HAWKeye sCMOS Camera 1910

## Starlight to full daylight 24-hour operation ruggedised camera

The camera uses selected sub electron sCMOS sensors available as either monochrome or colour, with low dark current and low defective pixel count.

Thanks to efficient cooling and stable offset, the sCMOS camera allows reproducible acquisition for precise metrology measurements in the NIR spectrum.

Camera Link and HD-SDI interfaces enable easy integration into existing systems. sCMOS sensors with UV extension are also available on demand.

OEM versions with special form factors / cooling options are made to order for special programmes into specific payload and surveillance systems.

### Applications

#### Available with passive cooling

Auto control exposure for surveillance Region of interest allowing digital zooming Pixel binning for improved sensitivity Colour or multi spectral filters

#### **Key Features**

- >90 dB intra-scene dynamic range
- Read out noise <1 electron RMS
- 30/60 fps with HD full resolution
- Excellent linearity response to varying intensities and / or exposures

PHOTONIC

- HD-SDI & Camera Link interface
- Software option: SDK kit, Labview VI's
- HD format 1920 x 1080

#### Available with active cooling

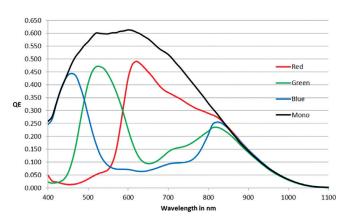
Astronomy Hyper spectral imaging Payload Spectroscopy

#### **Specialist Camera Solutions**



## HAWKeye sCMOS Camera 1910

Characteristics	HAWKeye HD 30/60
Spectral Range	380 - 1100 nm
Resolution (pixels)	1920 x 1080
Sensor Size	9.6 mm x 5.4 mm
Frame Rate	30 fps at 16-bit digitization 60 fps at 12-bit digitization
Pitch	5µm
Full Well Capacity	22,000 - 25,000 electrons
Read Out Noise	<1 electron
Reading Mode	Integrate While Read / Rolling Shutter
Dark Current	<25 electron/pixel/second at 20°C
Sensor Temperature (°C)	-40°C - 80°C with air cooling
Corrections	Non uniformity, bright pixel, gain, offset, flatfield
ADC	12-bit with 16-bit digital processing
Exposure	15 microseconds up to > 1 minute
QE 0.9µm	15%



Quantum efficiency response of Cooled HAWKeye camera 1910



Cooled HAWKeye 1910 dimensions

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