

## Scientific Fluorescence Cooled CCD Camera



**Model No:OECC-1.4S**

### Advanced Cooling technology

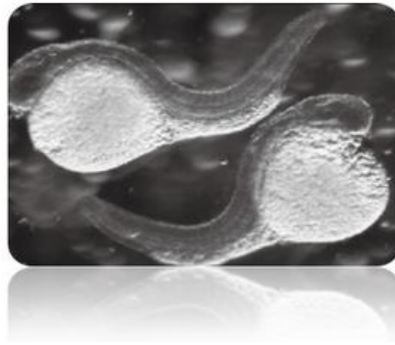


OECC-1.4S and OECC-1.4C integrate with Tucsen's latest cooling technology. Even you are doing the photography for up to dozens of minutes exposure, the camera cooling system keeps the sensor temperature down to  $-10^{\circ}\text{C}$ . It offers a comprehensive guarantee for low light imaging with negligible dark current noise.

### Excellent Photoelectric conversion efficiency

Up to 65% quantum efficiency guarantees high-sensitivity performance. Even the ultra-weak optical signal can be caught - making OECC-1.4S and OECC-1.4C cameras ideal for low light imaging applications such as fluorescence and chemiluminescence etc.

## Pixels size up to 6.5μm\*6.5μm



OECC-1.4S and OECC-1.4C cooled camera utilize Sony professional CCD image sensor ICX285AL and ICX285AQ respectively. The image sensor diagonal length is 2/3 inch with 6.5μm x 6.5μm pixel size. Thanks to such large pixel size, each pixel carries larger electrical charges for outstanding light transmission properties.

## Specification

Sensor	Sony ICX285AL
Color/monochrome	Monochrome
Sensor size	2/3"
Pixel size(μm)	6.45x6.45
Effective pixels	1.4MP
Max.resolution (HxV)	1360x1024
Scan mode	Progressive
Shutter	Electronic shutter
Frame rate	13fps(1360 × 1024 Full Frame) 15fps (680 × 520, 2 × 2Bin)
Color depth	—
A/D	12 bit
Exposure Control	Manual/Auto
Integration Time (S)	0.0001-3600
White Balance	Manual/Auto
Dynamic range	79dB
Operating temperature	0-60°C
Cooling	Semiconductor refrieration
Operating humidity	45%-85%
Storage temperature	-20-70°C
Cooling temperature	-10°C
Operating system	Windows / Linux / Mac
Optical port	C-Mount
Data interface	USB2.0/480Mb/s