

# EagleEye™ Series TE-cooled Spectrometer

Raman • Thin-Film Measurement • LED Measurement



## EagleEye Series All Models

- Cooled back-thinned TEC sensor.
- High sensitivity and high SNR (500).
- Extremely low thermal noise.
- Default: 0°C at ambient of 25°C.
- Proprietary stray light calibration algorithm ( 0.01%).
- Optional 2/4/8/16 pixel-binning mode increases sensitivity.

## EagleEye (EE2113)

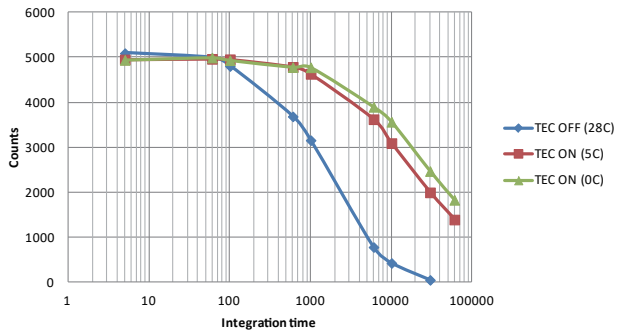
- NIR Enhanced back-thinned TEC sensor.
- Wavelength range: 500-1100nm.
- Raman spectral range: up to 3500 cm<sup>-1</sup>.
- Raman spectral resolution: up to 5 cm<sup>-1</sup>.
- Ideal for 532/785 nm Raman measurement.

## EagleEye (EE2063/EE2093)

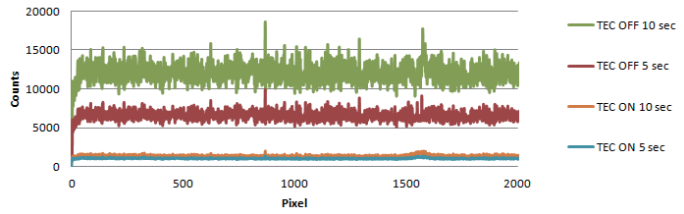
- UV Enhanced back-thinned TEC sensor.
- Wavelength range: 180-1100 nm.
- 5 ms high-speed exposure time.
- Ideal for ellipsometers, thin-film measurement & high-end LED testing.



**Dynamic Range**



**Dark Signals in 5, 10 sec**



## OtO-EE Series with Selection of Grating & Resolution

Groove Density (g/mm)	Best Efficiency Wavelength(nm)	Bandwidth	Selectable Band	Resolutions (nm) Under Different Slit Sizes					
				10 μm	25 μm	50 μm	100 μm	200 μm	300 μm
2400	240/VIS	100 nm UV 150 nm	180-520 nm	0.2	0.3	0.4	0.8	1.2	-
1800	180/250/500	150 nm UV 210 nm	180-700 nm	0.3	0.4	0.6	1.0	1.8	-
1600	200	160 nm UV 240 nm	180-780 nm	0.4	0.5	0.7	1.2	2.0	-
1200	200/300/500/600/750/850	220 nm	180-1010 nm	0.5	0.6	0.9	1.7	3.4	4.5
1000	250/900	300 nm UV 400 nm	180-1100 nm	0.6	0.7	1.1	1.9	3.0	-
900	500	360 nm UV 450 nm	180-1100 nm	0.6	0.8	1.3	2.3	4.6	-
830	800	410 nm	180-1100 nm	0.9	1.0	1.5	2.5	4.5	-
600	300/400/500/800/1000	670 nm	180-1100 nm	1.0	1.2	1.9	3.3	6.7	10.0
500	300/560/770	825 nm	180-1100 nm	1.1	1.4	2.4	3.5	7.5	11.5
300	230/300 /500/422	920 nm	180-1100 nm	1.7	2.3	3.2	6.0	12.8	20.0

## Specifications

Model	EE2113	EE2063	EE2093
CCD Cooling	0°C at Ambient of 25°C		
Selectable Wavelength Range	500-1100 nm	180-1100 nm	180-1100 nm
Resolution	0.4-10 nm	0.2-10 nm	0.2-10 nm
Shutter	Optional		
SNR	500		
DarkNoise	20	25	25
Dynamic Range	4700	4100	4100
Integration Time	5 ms - 65 s		1.5 ms - 65 s
On-Board Computation	V		
Continuous High-Speed Exposure Mode	V		
Size	130 x 96 x 58.3 mm <sup>3</sup>		