

EagleEye™ Series-Thermoelectric Cooling Model Combination of Robust and Exquisite Design

For Raman System • Thin-Film Measurement •
LED Measurement



- High Sensitivity Cooled Back-thinned TEC Sensor
High SNR - 500 & Extremely Low Thermal Noise
- Default: 0°C at Ambient of 25°C
- Proprietary Stray Light Calibration Algorithms
(0.01% after calibration)

EagleEye Series

EagleEye- 051 (EE2051)

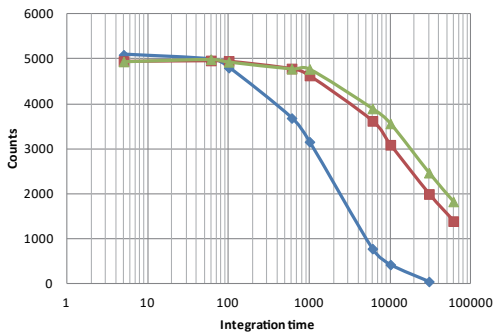
- NIR (800~1100nm) Enhanced Back-Thinned TEC Sensor
- Best Wavelength Range for Applications: 500~1100nm
- Raman Spectral Range Can be up to 3500 cm^{-1} and Spectral Resolution
Can Reach to 5 cm^{-1}
- Best Choice for 532/785nm Raman Measurement

EagleEye- 063 (EE2063)

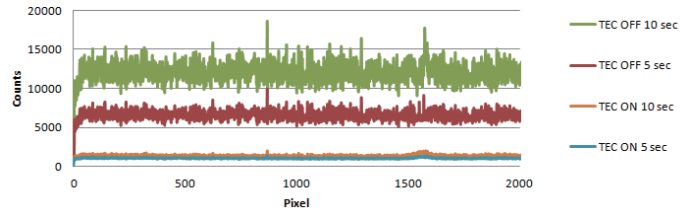
- UV (180~400nm) Enhanced Back-thinned TEC Sensor
- Best Wavelength Range for Applications: 180~1100nm
- 5ms High-speed Exposure Time
- Best Choice for Ellipsometer, Thin-film Measurement &
High-end LED Test

Thermal Electric Cooler Spectrometer -EagleEye Series-

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 | | | | | |
|-----------------------|--------------------------------|-------------------|-----------------|---|------|------|-------|-------|-------|
| | | | | 10um | 25um | 50um | 100um | 200um | 300um |
| 2400 | 240/VIS | 100nm UV 150nm | 180-520 nm | 0.2 | 0.3 | 0.4 | 0.8 | 1.2 | - |
| 1800 | 180/250/500 | 150nm UV 210nm | 180-700 nm | 0.3 | 0.4 | 0.6 | 1.0 | 1.8 | - |
| 1600 | 200 | 160nm UV 240nm | 180-780 nm | 0.4 | 0.5 | 0.7 | 1.2 | 2.0 | - |
| 1200 | 200/300/500/600/750/850 | 220nm UV 320nm | 180-1010 nm | 0.5 | 0.6 | 0.9 | 1.7 | 3.4 | 4.5 |
| 1000 | 250/900 | 300nm UV 400nm | 180~1100 nm | 0.6 | 0.7 | 1.1 | 1.9 | 3.0 | - |
| 900 | 500 | 360nm UV 450nm | 180~1100 nm | 0.6 | 0.8 | 1.3 | 2.3 | 4.6 | - |
| 830 | 800 | 410nm | 180~1100 nm | 0.9 | 1.0 | 1.5 | 2.5 | 4.5 | - |
| 600 | 300/400/500/800/1000 | 670nm | 180~1100 nm | 1.0 | 1.2 | 1.9 | 3.3 | 6.7 | 10.0 |
| 500 | 300/560/770 | 825nm | 180~1100 nm | 1.1 | 1.4 | 2.4 | 3.5 | 7.5 | 11.5 |
| 300 | 230/300 /500/422 | 920nm | 180~1100 nm | 1.7 | 2.3 | 3.2 | 6.0 | 12.8 | 20.0 |

Specifications

| Model | EE2051 | EE2063 |
|---------------------------------|------------------------|-------------|
| CCD Cooling | 0°C at Ambient of 25°C | |
| Selectable Wavelength Range | 500~1100nm | 180~1100nm |
| Resolution | 0.4nm~10nm | 0.2nm~10nm |
| Shutter | Optional | |
| SNR | 500 | |
| DarkNoise | 14 | 16 |
| Dynamic Range | 4700 | 4100 |
| Integration Time | 5 ms ~ 65s | |
| On-Board Computation | V | |
| Continuous High-Speed Exposures | V | |
| Size(mm ³) | 130*86*32 | 130*96*39.5 |