



The Coherent Light Modulator is a device that detects the presence of spectrally very narrow light and imparts a slow amplitude modulation on its intensity. Through the use of polarizers and a birefringent crystal, light with very narrow spectral content is modulated while broader spectral light (including sunlight) is not modulated. Therefore, this device can detect the presence of narrow spectral light (including laser light) in the presence of higher intensity background light. Indirect or scattered light can be detected. This device is typically integrated onto a commercial camera lens and any pixels with narrow spectral light are modulated.

## FEATURES & BENEFITS

- ◆ Works over a broad spectral band, so no narrow bandpass filter is needed:
  - 700 nm to 1100 nm
  - 900 nm to 1700 nm
- ◆ Easily integrates onto commercial visible or SWIR lenses
- ◆ CLM-35C-NIR includes a 700 – 1100 nm modulator with a 35mm F/1.4 lens
- ◆ Indirect or scattered light can be detected
- ◆ CLM-35C-SWIR includes a 900 – 1700 nm modulator with a SWIR 35mm F/1.4 lens
- ◆ Standard models listed below. Other configurations available upon request
- ◆ Modulation frequency is adjustable from 1 Hz to 30 Hz
- ◆ Narrow spectral light anywhere on the camera image can be detected (individual camera pixels are modulated)
- ◆ Battery operated
- ◆ Automatic wavelength estimation optional
- ◆ Software for automatic detection can be developed.
- ◆ Can be incorporated into other viewing aides such as a monocular

Lens Model	Edmond 67716 CLM 35C NIR	Nikon 1429 CLM 35F NIR	Navitar CLM 35C SWIR
Lens Focal Length	35mm	35mm	35mm
Lens F/#	1.65	1.4	1.4
Camera Mount	C	F	C
Wavelength Band	700-1100nm	700-1100nm	1300-1600nm

