

DuoChrome-SM

Two Band SWIR/MWIR Imaging System



Two-band SWIR/MWIR imaging system designed specifically for radiometric measurement in two selectable bands. Out of the box, the DuoChrome-SM can be used in demanding analysis, quality control and detection work either locally or over a network.



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Specifications

Comprising very high-speed, high sensitivity InSb array (512 x 512 pixel), optics, and imaging electronics, the DuoChrome-SM can acquire and process imagery at a rate of 150 frames (512 x 512 pixels)/second at 14-bit resolution. Smaller window sizes allow higher frame rates. The system's spectral response is in the short to medium wave-infrared spectral range from 1.5-5.0 microns, in two bands, tailored through 1" filters: 1.5-3.0 and 3.5-5.0 microns. The HS data cube size is 1 MB.

All image processing occurs at the full cube rate. The DuoChrome-SM imager is supported by custom DuoChrome software with a user-friendly GUI.

Spectral Coverage	1.5 – 5.0 μm
Spectral Bands	2
Spectral Resolution	2 bands, 1.5 – 3.0 μm 3.5 – 5.0 μm
Dynamic Range	14 bits
Super Frame Rate	100Hz (2 subframes, 512x384 window)
Frame Size	512 x 512
Focal Length	115mm (5.1°) or 180 mm (3.25°)
Computer Interface	USB Camera-Link



SWIR Imagery



MWIR Imagery