

# 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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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.

<b>Spectral Coverage</b>	1.5 – 5.0 $\mu\text{m}$
<b>Spectral Bands</b>	2
<b>Spectral Resolution</b>	2 bands, 1.5 – 3.0 mm 3.5 – 5.0 mm
<b>Dynamic Range</b>	14 bits
<b>Super Frame Rate</b>	100Hz (2 subframes, 512x384 window)
<b>Frame Size</b>	512 x 512
<b>Focal Length</b>	115mm (5.1°) or 180 mm (3.25°)
<b>Computer Interface</b>	USB Camera-Link



SWIR Imagery



MWIR Imagery