SIERRA-OLYMPIA
TECHNOLOGIES INC.

VINDEN CORE
CONTINUOUS ZOOM LWIR CAMERA SERIES

The Vinden Core series combines a 640 x 480 resolution uncooled long-wave detector with a selection of highly parfocal continuous zoom optics, resulting in a cost-effective and versatile solution for custom integration applications.

+ Uncooled LWIR, VOx microbolometer
+ 640 x 480 resolution / 17 µm detector
+ Wide range of zoom optics available
+ Low-SWaP integration
+ Non-ITAR controlled

DETAILS

The Vinden Core series continuous zoom thermal imaging cameras are cost-effective, highly operable CZ thermal imaging packages designed for OEM integrators. They combine the best 17 µm uncooled thermal camera core on the market with a versatile selection of elegant and effective continuous zoom optics.

The Vinden thermal imaging core offers industry-leading performance with digital and analog/digital interfacing options. The continuous zoom LWIR optics provide superior parfocal performance, zoom boresight, athermalization, and repeatability. The Vinden line offers off-board image processors to provide encoded IP video streams, advanced image processing functions and additional interfacing options.
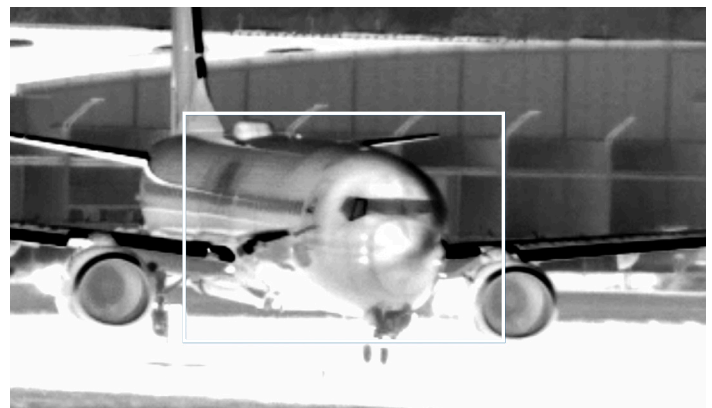

VINDEN 75 at ~1 km

APPLICATIONS

+ Low-SWaP aerial integration
+ PTZ systems integration
+ Manned/unmanned systems
+ Around-the-clock asset monitoring
+ Security and surveillance
+ Custom OEM applications
+ Port, airport, border security

VINDEN CORE
CONTINUOUS ZOOM LWIR CAMERA SERIES

EXPORT CLASSIFICATION: DUAL USE

FEATURE SPECS

DETECTOR

Detector Type	Uncooled VOx Microbolometer
Array Format	640 x 480
Pixel Pitch	17 Micron
Spectral Response	LWIR
Frame Rate	30 Hz | 9 Hz

ENVIRONMENTAL

Operating Temperature	-20° to +70°C
Mounting	¼-20 Tripod Mount

LENS OPTIONS

	EFL	F#	FOV
60 mm	15 to 60 mm	1.4	44.2° to 10.4°
75 mm	15 to 75 mm	1.2	43.4° to 8.2°
100 mm	15 to 100 mm	1.4	42.2° to 6.2°
225 mm	25 to 225 mm	1.5	25.2° to 2.77°
300 mm	40 to 300 mm	1.5	16.6° to 2.1°
4X	26 to 105 mm	1.6	25.3° to 5.9°
6X	25 to 150 mm	1.4	25.3° to 4.1°

SYSTEM

Analog Video Output	NTSC/PAL
Digital Video Output	CameraLink® or LVCMOS, ⅛/¼-bit
Camera Control/Command Interfaces/System Control	Serial (RS232) / USB