VIENTO-10

TEN-MICRON LWIR WITH USB OR GIGE CONNECTIVITY

With industry-standard interface options, Viento-10 is an easy-to-integrate, VGA resolution LWIR camera core that delivers best-in-class sensitivity, detail and clarity.

+ 10μ 640 x 512 uncooled VOx microbolometer
+ Variety of lens options available
+ Sensitivity <20 mK NETD with 3-D noise filter
+ 60 Hz frame rate (9 Hz option available)
+ Smaller, lighter, more affordable optics

DETAILS

Viento-10 is built around an industry-leading 10-micron pixel pitch camera core by Leonardo DRS. With custom-developed interface boards providing fully integrated USB 3.0 or GigE Vision® connectivity, Viento-10 delivers universal, out-of-the-box functionality for end-users, OEMs and integrators.
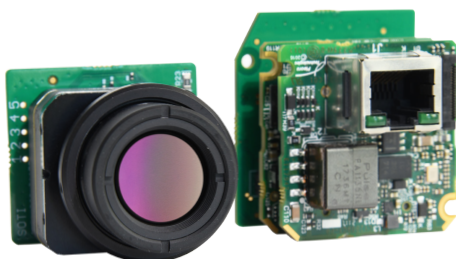
A 60 Hz frame rate, a growing suite of lens options and IP67 capability make this a versatile, high-performance camera core for a wide range of thermal imaging applications.

+ 25+ Years industry leadership
+ Responsive customer service
+ Quality assured
+ Direct engineering support
+ Items in stock, ready to ship
+ ISO 9001:2015 company

APPLICATIONS

+ Unmanned vehicles
+ Security & surveillance
+ Fire detection
+ Traffic monitoring
+ Law enforecement
+ Machine vision
+ Precision agriculture
+ OEM integration
+ Search and rescue
+ Medical imaging

Viento-10 GigE

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EXPORT CLASSIFICATION: DUAL USE

FEATURE SPECS

DETECTOR

Detector Type	Uncooled VOx Microbolometer
Array Format	640 x 512
Pixel Pitch	10 Micron
Spectral Response	LWIR
Frame Rate	60 Hz	9 Hz available
Bit Depth	14-bit
NETD	<20 mK (normalized, filtered) <50 mK (normalized)

ENVIRONMENTAL

Operating Temperature	0°C to +70°C (Optional -40°C to +70°C)
Power Dissipation	2.0 W (USB)	4.6 W (GigE)

LENS MODELS

	FOV	F#
No Lens	N/A	N/A
4.3 mm	90° x 72°	1.2
5.5 mm	70° x 56°	1.2
7.7 mm	49° x 40°	1.3
15 mm	25° x 20°	1.2
20 mm	18° x 15°	1.2
30 mm	12° x 10°	1.3
35 mm	10° x 8°	1.2
55 mm	6.4° x 5.1°	1.0
73 mm	5.0° x 4.0°	1.05

SYSTEM

Digital Video Output	USB3.0 UVC, GigE Version
NUC	1-point w/ shutter or through lens
Image Enhancement	Image Contrast Enhancement (ICE™) with gain and level bias controls
Color Palette Options	24-bit RGB and YUV (4,2,2) Superframe
Digital Zoom/Pan	1x to 4x
Symbology	User defined
Camera Control/Command Interfaces/System Control	USB3.0 UVC, GigE
Input Voltage	Powered via USB or PoE