



With three connectivity options, Viento HD10 is an easy-to-integrate, LWIR camera core that delivers best-in-class sensitivity, detail and clarity in a Low-SWaP package.

DETAILS

The Viento HD10 is built around the 10µm pixel pitch camera core by Leonardo DRS. The small pixel pitch increases range and acuity with a best-in-class array resolution preserveing field-of-view. The Viento HD10 is an unparalleled choice for applications where situational awareness and DRI are critical. Custom interface boards make prototyping, demonstration, and integration fast and easy with options for USB 3.0, GigE Vision®, MIPI and SDI. Supporting documentation for each interface gives out-of-the-box connectivity so work can start immediately.

- + USB, GigE, MIPI or SDI
- + 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 HD10 GigE



- + 10µm uncooled VOx microbolometer
- + Onboard Image Processing
- + Sensitivity <30 mK NETD with 3-D noise filter
- + 30 Hz frame rate (9 Hz option available)
- + Family of lens and interface options



Railyard from cliffside



Close Up Dump Truck



VIENTO HD10

10MICRON LWIR WITH USB, GIGE, MIPI OR SDI CONNECTIVITY EXPORT CLASSIFICATION: DUAL USE

FEATURE SPECS

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~ ~ ~	USB	GigE	SDI	MIPI
Detector Type	Uncooled VOx Microbolometer	Uncooled VOx Microbolometer	Uncooled VOx Microbolometer	Uncooled VOx Microbolometer
Array Format	1280 x 1024 (SXGA)			
Pixel Pitch	10 Micron	10 Micron	10 Micron	10 Micron
Spectral Response	LWIR 8-14 Micron	LWIR 8-14 Micron	LWIR 8-14 Micron	LWIR 8-14 Micron
Frame Rate	30 Hz 9 Hz available			
Bit Depth	14-bit	14-bit	14-bit	14-bit
NETD	<30 mK (normalized, filtered) <60 mK (normalized)			

ENVIRONMENTAL

~ ~ ~	USB	GigE	SDI	MIPI
Operating Temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Power Dissipation	2.7W Typical, 4.6W max	5.0W Typical	3.7W Typical, 7.7W max	Typical 3W, 6.5W max estimated
Input Voltage	External Power 5V, Some USB3.0 can power these	PoE	5-14 volts	4.75 - 5.5 Volts

CVCTEM

SYSTEM				
* * *	USB	GigE	SDI	MIPI
Digital Video Output	USB3.0 UVC: Y16, Y800 and YUY2 1280 x 1024 Only	GigEVision Pixel Format: Mono14, Mono8, YCbCr709_422_8_ CbYCrY	HD-SDI 1080p30 format Centered in frame with black borders.	MIPI Video output
NUC	1-point with shutter or through lens	1-point with shutter or through lens	1-point with shutter or through lens	1-point with shutter or through lens
Image Enhancement	lmage Contrast Enhancement (ICE™)	lmage Contrast Enhancement (ICE™)	Image Contrast Enhancement (ICE™)	Image Contrast Enhancement (ICE™)
Color Palette Options	YUV422 Eleven predefined color palettes and one customizable	YUV422 Eleven predefined color palettes and one customizable	YUV422 Eleven predefined color palettes and one customizable	YUV422 Eleven predefined color palettes and one customizable
Digital Zoom/Pan	1X to 4X	1X to 4X	1X to 4X	1X to 4X
Camera Control/ Command Interfaces/ System Control	USB-C	Virtual Serial Pass- through	Serial Pass-through	Serial Pass-through

LENS MODELS

	No Lens	12.8mm	25mm	35mm	For more information please visit SierraOlympia.com
FOV	N/A	60° x 47°	30° x 23°	21° x 17°	Tof more information please visit sierraolympia.c
F#	N/A	1.4	1.2	1.4	