COMPACT, INDUSTRIAL
THERMAL CAMERA

Xenics
Photonis Group

Ceres V 640 Series

Uncooled microbolometer camera for high-resolution thermal imaging

UNCOOLED MICROBOLOMETER CAMERA FOR HIGH-RESOLUTION THERMAL IMAGING

KEY FEATURES

- Compact and high-resolution
- Superior on-board thermographic performance (optimized image quality)
- GenICam compliant
- Uncooled operation
- Flexible optical mount and lens options[1]

The Ceres V 640 series is based upon the Dione 640 OEM thermal imaging core with 640x480 pixels and 12 µm pixel pitch. Thanks to the state-of-the-art microbolometer detector and on-board image processing, the camera offers superior thermal imaging capabilities.

The Ceres V 640 camera outputs full frame images at 60 Hz via either a CameraLink or GigE Vision interface - all GenICam compliant. The compact size, excellent image quality and GenICam compliant interfacing allow for easy integration in demanding industrial, scientific and security thermal imaging applications.

Ceres V 640 Series

EU based supplier

KEY PERFORMANCES

Image format/Pixel pitch	640 x 480 pixels / 12 µm
Integration type	Rolling Shutter
Spectral range	8 -14 µm
Max frame rate (full frame)	60 Hz
Power consumption	4 W (GigE); 3.5 W (CL)
Power supply voltage	DC 12 V

FUNCTIONS & INTERFACES

Digital output format	GigE; CL
Operating temperature range (housing temperature)	From -40 °C to +70 °C
Storage temperature	From -40 °C to +85 °C
Detector NETD	<50 mK(at 30Hz, 300K, F/1); <40 mK (at 30 Hz, 300 K, F/1), available upon request
Shock / Vibration	40 g, 11 ms, MIL-STD810G/5 g (20 to 2000 Hz), MIL-STD810G

PRODUCT SELECTOR GUIDE

XEN-000786 [Ceres V 640 GigE 50 mK (60 Hz)]	XEN-000724 [Ceres V 640 GigE 50 mK (9 Hz)]
XEN-000788 [Ceres V 640 GigE 40 mK (60 Hz)]	XEN-000725 [Ceres V 640 GigE 40 mK (9 Hz)]
XEN-000784 [Ceres V 640 CL 50 mK (60 Hz)]	XEN-000727 [Ceres V 640 CL 50 mK (9 Hz)]
XEN-000787 [Ceres V 640 CL 40 mK (60 Hz)]	XEN-000728 [Ceres V 640 CL 40 mK (9 Hz)]

[1]Available with different lens interfaces. For more information, contact us at sales@xenics.com.

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