COMPACT, INDUSTRIAL
THERMAL CAMERA

Xenics
EXOSENS GROUP

Ceres V 640 Series

UNCOOLED MICROBOLOMETER CAMERA FOR HIGH-RESOLUTION THERMAL IMAGING

KEY FEATURES

- **COMPACT AND HIGH-RESOLUTION**
- **SUPERIOR ON-BOARD IMAGE PROCESSING PERFORMANCE**
- **FLEXIBLE OPTICAL MOUNT & LENS OPTIONS***

*Different lens interface options are available.
Note: The Ceres GigE Vision cameras come with a standard Precision Time Protocol (PTP), ensuring synchronized operation in a multi-camera system. For more information, contact us at advancedimaging@exosens.com

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

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 or PoE (Power over Ethernet)

FUNCTIONS & INTERFACES

Digital output format	GigE; CL
Operating temperature range (housing temperature)	From -40°C to +70°C
Storage temperature range	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)]

advancedimaging@exosens.com

exosens.com

EXOSENS
REVEAL THE INVISIBLE

© Xenics. The information furnished is believed to be accurate and reliable, but is not guaranteed and is subject to change without notice. No liability is assumed by Xenics nor by any Exosens Group companies. Performance data represents typical characteristics as individual product performance may vary. Customers should verify that they have the most current Xenics product information before placing orders. Texts and pictures may not be considered as contractually binding. This document may not be reproduced, in whole or in part, without the prior written consent of Xenics.