Ceres T 1280 Series

HIGH-RESOLUTION LWIR THERMOGRAPHIC CAMERA

KEY FEATURES

COMPACT AND HIGH-RESOLUTION

SUPERIOR ON-BOARD IMAGE PROCESSING PERFORMANCE

FLEXIBLE OPTICAL MOUNT & LENS OPTIONS

Note: The camera offers one standard option of lens and thermal calibration pack. 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 T 1280 series is based upon the Dione 1280 OEM thermal imaging core with 1280x1024 pixels and 12 µm pixel pitch.

The camera offers superior on-board thermographic performance (accuracy, stability) in the temperature range up to 400 °C.

The Ceres T 1280 camera outputs full frame images at 60 Hz via either a CameraLink or at 45 Hz via GigE Vision interface. The compact size, excellent thermographic stability and accuracy, and GenICam compliant interfacing allow for easy integration in demanding industrial thermography applications.

Ceres T 1280 Series

KEY PERFORMANCES

Image format/Pixel pitch	1280 x 1024 pixels/12 µm
Integration type	Rolling Shutter
Spectral range	8 -14 µm
Max frame rate (full frame)	45 Hz (GigE); 60 Hz (CL)
Power consumption	5.5 W (GigE); 5 W (CL)
Power supply voltage	DC 12 V

FUNCTIONS & INTERFACES

Digital output format	GigE; CL
Ambient operating temperature range (*)	From -40°C to +70°C
Storage temperature range	From -40 °C to +85 °C
Detector NETD	<50 mK (at 30Hz, 300K, F/1)
Shock / Vibration	25g, 3ms, IEC 60068-2-27 / 2g, IEC 60068-2-6

(*) Defining the limitations and restrictions of the thermographic mode (from +10°C to +50°C)

PRODUCT SELECTOR GUIDE

XEN-000739 [Ceres T 1280 GigE 50 mK (60 Hz)]	XEN-000740 [Ceres T 1280 GigE 50 mK (9 Hz)]
XEN-000743 [Ceres T 1280 CL 50 mK (60 Hz)]	XEN-000744 [Ceres T 1280 CL 50 mK (9 Hz)]

For more information please contact:

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Ceres T 640 Series

Xenics
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*COMPACT, HIGH-PERFORMANCE
THERMOGRAPHIC CAMERA*

KEY FEATURES

COMPACT SIZE

LOW LATENCY SYNCHRONIZATION

**SUPERIOR ON-BOARD IMAGE
PROCESSING PERFORMANCE**

The Ceres T 640 series is based upon the Dione 640 OEM thermal imaging core with 640x480 pixels and 12 µm pixel pitch. The camera offers superior on-board thermographic performance (accuracy, stability) in the temperature range up to 400°C.

The Ceres T 640 camera outputs full frame images at 60 Hz via either a CameraLink or GigE Vision interface. The compact size and, excellent thermographic stability and accuracy, and GenICam compliant interfacing allow for easy integration in demanding industrial thermographic applications.

Note: The camera comes with one standard option of lens and thermal calibration pack. 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.

Ceres T 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)	Up to 60 Hz
Power consumption	4 W (GigE); 3.5 W (CL)
Power supply voltage	DC 12 V

FUNCTIONS & INTERFACES

Digital output format	GigE; CL
Ambient operating temperature range (*)	From -40 °C to +70 °C
Storage temperature range	From -40 °C to +85 °C
Detector NETD	<50 mK (at 30Hz, 300K, F/1)
Shock / Vibration	25g, 3ms, IEC 60068-2-27 / 2g, IEC 60068-2-6

PRODUCT SELECTOR GUIDE

XEN-000681 [Ceres T 640 GigE 50 mK (60 Hz)]	XEN-000723 [Ceres T 640 GigE 50 mK (9 Hz)]
XEN-000682 [Ceres T 640 CL 50 mK (60 Hz)]	XEN-000726 [Ceres T 640 CL 50 mK (9 Hz)]

(*) Ambient operating temperature range for thermography from +10°C to +50°C

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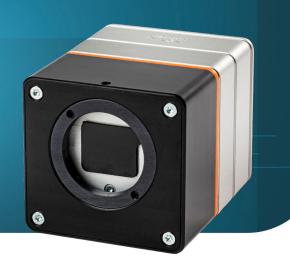
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Ceres V 1280 Series

*UNCOOLED MICROBOLOMETER CAMERA
FOR HIGH-RESOLUTION THERMAL IMAGING*

KEY FEATURES

COMPACT AND HIGH-RESOLUTION

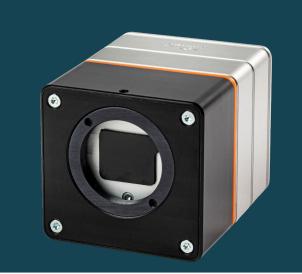**SUPERIOR ON-BOARD IMAGE PROCESSING PERFORMANCE**

FLEXIBLE OPTICAL MOUNT & LENS OPTIONS*

*Different lens interface options 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 1280 series is based upon the Dione 1280 OEM thermal imaging core with 1280x1024 pixels and 12 µm pixel pitch. The camera offers superior thermal imaging capabilities, thanks to the state-of-the-art microbolometer detector and onboard image processing.

The Ceres V 1280 camera outputs full frame images at 60 Hz via either a CameraLink or at 45 Hz via 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 1280 Series

KEY PERFORMANCES

Image format/Pixel pitch	1280 x 1024 pixels / 12 μm
Integration type	Rolling Shutter
Spectral range	8 -14 μm
Max frame rate (full frame)	45 Hz (GigE); 60 Hz (CL)
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 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-000746 [Ceres V 1280 GigE 50 mK (60 Hz)]	XEN-000741 [Ceres V 1280 GigE 50 mK (9 Hz)]
XEN-000750 [Ceres V 1280 GigE 40 mK (60 Hz)]	XEN-000751 [Ceres V 1280 GigE 40 mK (9 Hz)]
XEN-000747 [Ceres V 1280 CL 50 mK (60 Hz)]	XEN-000745 [Ceres V 1280 CL 50 mK (9 Hz)]
XEN-000752 [Ceres V 1280 CL 40 mK (60 Hz)]	XEN-000753 [Ceres V 1280 CL 40 mK (9 Hz)]

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Ceres V 640 Series

*UNCOOLED MICROBOLOMETER CAMERA
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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

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)]

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