

COMPACT, HIGH-PERFORMANCE  
THERMOGRAPHIC CAMERA

**Xenics**  
EXOSENS GROUP

# Ceres T 640 Series



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  $\mu\text{m}$  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](mailto:advancedimaging@exosens.com).

# Ceres T 640 Series



## KEY PERFORMANCES

Image format/Pixel pitch	640 x 480 pixels / 12 $\mu$ m
Integration type	Rolling Shutter
Spectral range	8 -14 $\mu$ m
Max frame rate (full frame)	Up to 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
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

[advancedimaging@exosens.com](mailto:advancedimaging@exosens.com)



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REVEAL THE INVISIBLE

COMPACT, HIGH-PERFORMANCE  
THERMOGRAPHIC CAMERA

**Xenics**  
EXOSENS GROUP

# 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**

The Ceres T 1280 series is based upon the Dione 1280 OEM thermal imaging core with 1280x1024 pixels and 12  $\mu$ m 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.

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](mailto:advancedimaging@exosens.com)

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# Ceres T 1280 Series



## KEY PERFORMANCES

Image format/Pixel pitch	1280 x 1024 pixels/12 $\mu$ m
Integration type	Rolling Shutter
Spectral range	8 -14 $\mu$ m
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 or PoE (Power over Ethernet)

## 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)]

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