

**COMPACT, HIGH-PERFORMANCE  
THERMOGRAPHIC CAMERA**

**Xenics**  
EXOSENS GROUP

# Ceres T 640 Series



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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

## 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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