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

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)]

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