## Ceres V 1280 Series

## UNCOOLED MICROBOLOMETER CAMERA

## KEY FEATURES



COMPACT AND HIGH-RESOLUTION

SUPERIOR ON-BOARD IMAGE PROCESSING PERFORMANCE

FLEXIBLE OPTICAL MOUNT \& LENS OPTIONS*
*Different lens interface options available

The Ceres $\vee 1280$ series is based upon the Dione 1280 OEM thermal imaging core with $1280 \times 1024$ pixels and $12 \mu \mathrm{~m}$ 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 | $1280 \times 1024$ pixels / $12 \mu \mathrm{~m}$ |
| :--- | :--- |
| Integration type | Rolling Shutter |
| Spectral range | $8-14 \mu \mathrm{~m}$ |
| Max frame rate (full frame) | $45 \mathrm{~Hz}(\mathrm{GigE}) ; 60 \mathrm{~Hz}(\mathrm{CL})$ |
| Power consumption | $4 \mathrm{~W}(\mathrm{GigE}) ; 3.5 \mathrm{~W}(\mathrm{CL})$ |
| Power supply voltage | DC 12 V |

## FUNCTIONS \& INTERFACES

| Digital output format | GigE; CL |
| :---: | :---: |
| Operating temperature range (housing temperature) | From $-40^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |
| Storage temperature range | From $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| Detector NETD | $\begin{aligned} & <50 \mathrm{mK}(\text { at } 30 \mathrm{~Hz}, 300 \mathrm{~K}, \mathrm{~F} / 1) \text {; } \\ & \text { <40 } \mathrm{mK}(\text { at } 30 \mathrm{~Hz}, 300 \mathrm{~K}, \mathrm{~F} / 1) \text {, available upon } \\ & \text { request } \end{aligned}$ |
| Shock / Vibration | $40 \mathrm{~g}, 11 \mathrm{~ms}$, MIL-STD810G/ <br> 5 g (20 to 2000 Hz ), MIL-STD810G |

## PRODUCT SELECTOR GUIDE

| XEN-000746 [Ceres V 1280 GigE $50 \mathrm{mK}(60 \mathrm{~Hz})$ ] | XEN-000741 [Ceres V 1280 GigE $50 \mathrm{mK}(9 \mathrm{~Hz})$ ] |
| :--- | :--- |
| XEN-000750 [Ceres V 1280 GigE $40 \mathrm{mK}(60 \mathrm{~Hz})$ ] | XEN-000751 [Ceres V $1280 \mathrm{GigE} 40 \mathrm{mK}(9 \mathrm{~Hz})]$ |
| XEN-000747 [Ceres V $1280 \mathrm{CL} 50 \mathrm{mK}(60 \mathrm{~Hz})]$ | XEN-000745 [Ceres V $1280 \mathrm{CL} 50 \mathrm{mK}(9 \mathrm{~Hz})]$ |
| XEN-000752 [Ceres V $1280 \mathrm{CL} 40 \mathrm{mK}(60 \mathrm{~Hz})]$ | XEN-000753 [Ceres V $1280 \mathrm{CL} 40 \mathrm{mK}(9 \mathrm{~Hz})]$ |

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