

TWV1912

12 μ m thermal camera core

The TWV1912 unlocks a new class of thermal systems as the first commercially available high definition (HD) uncooled thermal camera core. The system leverages the already proven 12 μ m technology from our TWV640, VGA thermal core.

Designed for demanding applications, the TWV1912 raises the bar for high-performance uncooled thermal imaging, and covers 9x the field-of-view of traditional VGA camera cores. The core's short time constant and ability to capture video up to 60Hz allows for phenomenal detail in dynamic scenes leaving motion blur behind. This allows users to clearly monitor complex environments and track fine movements.



Key features and benefits

HD 1920 x 1200 format delivers unprecedented crisp detail and wide field-of-view

Short time constant and 60Hz frame rate delivers exceptional clarity in dynamic scenes

Proven 12 μ m pixel technology enables compact system design

Applications

Security and surveillance

Thermography

Targeting systems

Process monitoring

Unparalleled detail when monitoring complex environments

Specifications

Detector

Detector type	Uncooled VOx microbolometer
Noise equivalent temperature difference (NEDT)	50mK at F/1
Spectral response region	7.5 μm – 13.5 μm
Array format	1920 x 1200
Pixel pitch	12 μm
Frame rate	Switchable: 60 Hz or 30 Hz

Video processing

Output modes	Black hot, white hot
Contrast enhancement	Histogram, equalization, sharpening filter

Video modes

Digital video	16-bit 12-bit contrast enhanced
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Interfaces

Connector	Samtec ST4 100-pin
Video format	Medium CameraLink
USB serial communications	Yes
Power	5.9 W at 30 Hz 6.4 W at 60 Hz
Input voltage	3.3 VDC
Optional shutter operation	Configurable, 0.5 sec nominal, auto/manual shutter
Optional interface card	CameraLink connector (2x), mini-USB, 12 VDC

Operational

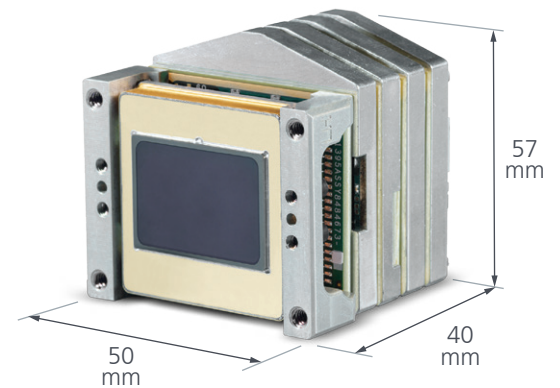
Operating temperature	-25°C to +65°C
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Physical

Size	40 mm x 50 mm x 57 mm
Weight	219 g



The **TWV1912** magnifies a light post with clear detail



For more information contact:

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