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WEOM THERMAL CAMERA MODULE

ITAR-free thermal imaging camera

WTC640-N-S-H25-9



- Outstanding thermal detail for confident decisions: High detector sensitivity (down to <30 mK on selected models) combined with advanced FPGA image processing helps reveal subtle temperature differences—supporting earlier detection, clearer targeting and more reliable interpretation.
- Integration-ready, with interfaces that match your system: Multiple output and control options (e.g., HDMI, USB, GigE/Ethernet; model-dependent) plus straightforward configuration tools accelerate prototyping and reduce engineering effort from first test to production.
- European, ITAR-free supply and rugged reliability: Designed and manufactured in Europe for dependable availability and long-term deployment—an ideal foundation for OEM products that must meet stringent operational and procurement requirements.

PRODUCT DESCRIPTION

Workswell's WEOM range is a family of ITAR-free, European-designed thermal camera modules built for fast, reliable OEM integration into demanding systems—whether you're developing autonomous platforms, industrial monitoring solutions, or next-generation security products. Designed around high-sensitivity LWIR microbolometer technology and advanced on-board image processing, WEOM delivers clear thermal imagery and dependable performance in real-world conditions.

The WEOM portfolio spans multiple integration configurations—from compact thermal cores to higher-resolution variants—offering flexible interface options such as HDMI, USB-C/USB, GigE/Ethernet and other industrial outputs (model-dependent). With a choice of fixed-focus lenses (and lens-less options for custom optics) and configurable frame rates, integrators can tailor performance, form factor and connectivity to the needs of each platform.

Anywhere you need compact thermal sensing with high image quality, stable operation and flexible system connectivity. Whether your application is thermal monitoring for security, maritime observation, industrial condition monitoring or machine vision, contact us to discuss your requirement: vision@oem.co.uk

TECHNICAL DATA

12101_Pixel size	17 µm
12580_Detector type	Uncooled LWIR detector, microbolometer
12581_Spectral Band	8-14
12582_Resolution (sensor)	640 x 480 px
12583_Thermal sensitivity (NETD)	30 mK
12584_Temperature range – High Gain	-50 °C to +160 °C
12585_Temperaturområde – Low Gain	-50 °C to 600 °C
12586_Focus (lens)	Fast fokus (ej motoriserad)

12587_Objective selectable	Välj en M25 lins under tillbehör (går även att köpa utan lins)
12588_Image rotation – Invert	Yes
12589_Image rotation – Mirror	Yes
12590_AGC	Yes
12590_Spatial image filter	Median full frame 60Hz
12592_MGC	Yes
12598_Dead Pixel Correction	Yes
12599_Dimensions (without lens)	40.1 (h) x 37.8 (w) x 42.6 (l) mm (1.57 x 1.48 x 1.67 in)
12600_Weight (without lens)	65 g
Current consumption	Typ: 2.0 W, Max: 2.2 W
Frame Rate	9 Hz
IP class	IP67
Material of body	Aluminium
Operating temperature	–30 °C till +70 °C
Rated voltage	5 VDC
Start-up time	< 5 sec
Storage temperature	-50°C to +90°C











