Xenics
Photonis Group

XTM+ 640 Series

Long-wave infrared (LWIR) uncooled module with 640 x 480 resolution
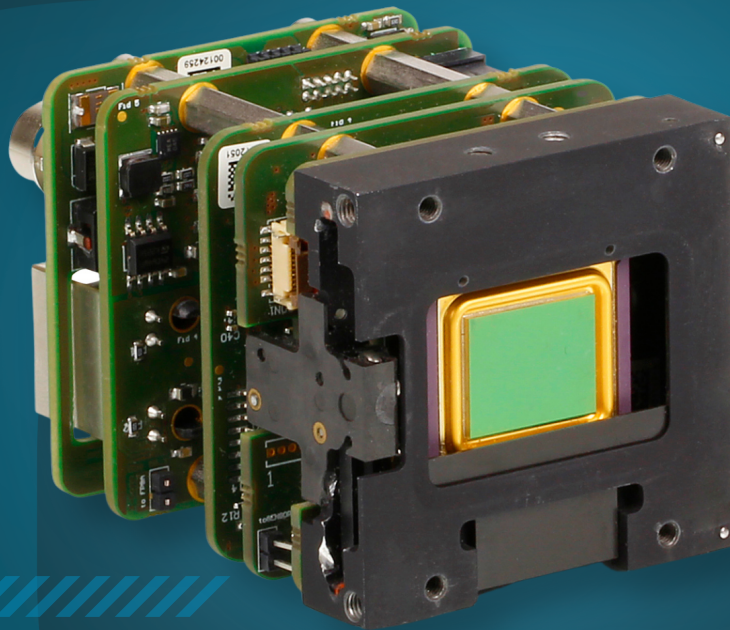
SMALL, HIGH PERFORMANCE UNCOOLED THERMAL MODULE

KEY FEATURES

◆ Compact size

◆ Easy connectivity via multiple interfaces

◆ Frame rates up to 60 Hz

◆ Lower detector NETD options (< 30 mK available upon request)

◆ Suitable for thermal security, vision enhancement and border security applications.
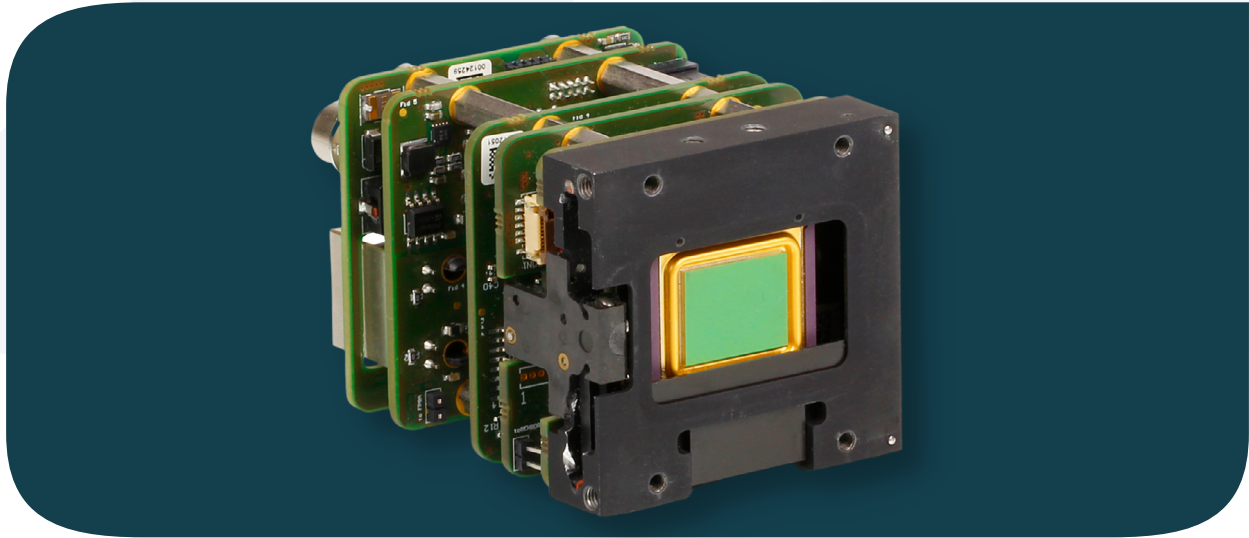
The XTM+ 640 Series is based on an uncooled microbolometer detector with a 640 x 480 pixel resolution.

The XTM+ 640 offers frame rates up to 60 Hz and lower detector NETD options (< 30 mK available upon request).

The modules come with either a CameraLink, GigE Vision or QTE Samtec interface and feature low weight and power.

XTM+ 640 Series

EU based supplier

KEY PERFORMANCES

Image format/Pixel pitch	640 x 480 pixels / 17 µm
Integration type	Rolling Shutter
Spectral range	8 -14 µm
Max frame rate (full frame)	60 Hz or 9 Hz (CL; GigE; 16 bit DV)
Power consumption	2.9 W (CL); 4.6 W (GigE); 2.7 W (16 bit DV)
Power supply voltage	DC 12 V (CL);DC 12 V or PoE (Power over Ethernet)(GigE): DC 3.3 V (16 bit DV)

FUNCTIONS & INTERFACES

Digital output format	CL; GigE; 16bit DV
Ambient operating temperature range	From -40 °C to +60 °C
Storage temperature	From -45 °C to +85 °C
Detector NETD	<50 mK (at 30Hz, 300K, F/1); <30 mK (available upon request)
Shock / Vibration	40 g, 11 ms, MIL-STD810G, MIL-STD883J / 5 g (20 to 2000 Hz), MIL-STD810G, MIL-STD883J

PRODUCT SELECTOR GUIDE

XEN-000637 (XTM+ 640 GigE)	XEN-000642 (XTM+ 640 GigE [9 Hz])
XEN-000638 (XTM+ 640 CL)	XEN-000643 (XTM+ 640 CL [9 Hz])
XEN-000635 (XTM+ 640 16bit DV)	XEN-000640 (XTM+ 640 16bit DV [9 Hz])

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