

MINI 640-2

THERMAL IMAGING MODULE

A compact core for thermal observation.

A 640 x 512 uncooled LWIR observation module with 12 μm pixels, a listed 60 Hz detector frame rate, CVBS and USB 2.0 video output.



Product rendering. Lens configuration is agreed separately.

640 x 512

RESOLUTION

12 μm

PIXEL PITCH

60 Hz

DETECTOR FRAME RATE

21 x 21 mm

CORE FOOTPRINT

Product evaluation

Discuss the configuration, technical documents and sample requirements that matter to your design.

As a trading company, TORSUN coordinates supplier questions, sample confirmation and order follow-up.

Compact integration

A 21 x 21 x 10.3 mm core envelope and 9 g core weight, excluding the lens. Confirm the complete assembly dimensions for your design.

Video and control

CVBS and USB 2.0 video output, with UART, I2C and USB 2.0 communication options. Request the interface details for your configuration.

MINI 640-2 / Specifications

Listed configuration - confirm final technical documents before design-in.

Detector & image	
Detector	VOx uncooled infrared FPA
Resolution	640 x 512 pixels
Pixel pitch	12 μm
Spectral band	8-14 μm
Detector frame rate	60 Hz
NETD	<= 40 mK at 25°C, F/1.0, 25 Hz
Interfaces & power	
Video output	CVBS + USB 2.0
Communication	UART / I2C / USB 2.0
Power supply	5 V ±5%
Typical power consumption	<= 650 mW, USB output at 25°C
Mechanical & environment	
Core dimensions	21 x 21 x 10.3 mm, excluding lens
Core weight	9 g, excluding lens
Operating case temperature	-30°C to +70°C

Specifications describe the listed configuration and stated conditions. Confirm the final datasheet, interface details and approved sample before design-in or ordering.

For a quotation, include the model, application, configuration, quantity, destination and target date.