MINI 256-2

THERMAL IMAGING MODULE

The entry point to LWIR thermal imaging.

A 256 x 192 uncooled VOx LWIR module with 12 µm pixels, a listed 50 Hz frame rate, CVBS and USB output, a DC 5-20 V input and a listed 22.8 g weight.



MINI-series housing shown. Lens and appearance depend on the selected configuration.

256 x 192	12 µm	50 Hz	22.8 g
RESOLUTION	PIXEL PITCH	FRAME RATE	WEIGHT

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.

Shutter or shutterless correction

Non-uniformity correction is listed by shutter or by a shutterless algorithm. Confirm the method for your configuration.

Image controls on board

0-100 brightness and contrast steps, 1.0-8.0x continuous digital zoom in 0.1 steps, and up-down, left-right or diagonal image flip.

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MINI 256-2 / Specifications

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

Detector & image	
Detector	VOx uncooled infrared FPA
Resolution	256 x 192 pixels
Pixel pitch	12 µm
Spectral band	8-14 µm
Frame rate	50 Hz
NETD	<= 40 mK at 25°C, F/1.0, 25 Hz
Thermal time constant	< 12 ms
Image processing	
Non-uniformity correction	Shutter correction / shutterless algorithm
Brightness / contrast	0-100 steps
Polarity / palettes	White hot, black hot and pseudo-colour palettes; CVBS output supports white hot / black hot only
Digital zoom	1.0-8.0x continuous, 0.1 steps
Image flip	Up-down / left-right / diagonal
Lens options	F1.0, 4.3 mm / 6.8 mm / 9.1 mm

Interfaces & power	
Analog video	PAL / NTSC
Video interface	CVBS and USB
Power input	DC 5-20 V
Connector pinout	1 DC 12 V · 2 GND · 3 CVBS · 4 TX · 5 RX
Analog output power	≈ 0.65 W at DC 12 V, 25°C
Mechanical & environment	
Core footprint	21 x 21 mm
Weight	22.8 g
Operating temperature	-40°C to +80°C
Storage temperature	-50°C to +80°C
Humidity	5%-95%, non-condensing
Vibration	6.06 g random, all axes
Shock	80 g, 4 ms, saw-tooth, 3 axes, 6 directions

Specifications follow the listed MINI-series parameter sheet. Confirm the final datasheet, lens, interface details and approved sample before design-in or ordering.

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