

ASTIR3 640

LWIR thermal imaging core

Shutterless uncooled
640 x 480 resolution, 12 μm , 50 Hz refresh rate



Specifications

Detector

Detector type	Amorphous silicon microbolometer
Resolution	640 x 480
Pixel pitch	12 μm
NETD	< 55 mK
Spectral range	8 – 14 μm
Refresh rate	50 Hz

Video processing

Digital zoom	x1, x2, x4, x8, Continuous
AGC	Advanced analysis of separate scene parts
Bad pixel detection/correction	Manual list based, automatic list based, real time
Graphics overlay	Pixel based with 256 color palette
Offset correction	Fully shutterless
Addition offset correction	Residual NUC recording and correction
Sharpness adjustment	Yes (variable)
Temporal noise filtering	Yes (variable)

Interfaces

Video output	Analog (PAL); Digital (BT.656, Custom-1, Custom-2, Custom-3, CameraLink)
Communication interface	UART, RS232, SPI, 2 x Quad SPI, USB

Physical

Size	30 mm x 30 mm x 18 mm
Weight	25 g
Power-up time	< 3.5 s
Power supply	3 – 15 V
Mounting holes	4 x M1.6 (front) and 4 x 2 x M2 (sides)

Operational

Operating temperature	-40° to +60°
Storage temperature	-55° to +105°

This product is export controlled.

The thermal imaging cores are dual use products and are subject under the regulation of export outside of the EEC.

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This document gives only a general description of the product. From time to time changes may be made in properties and values.