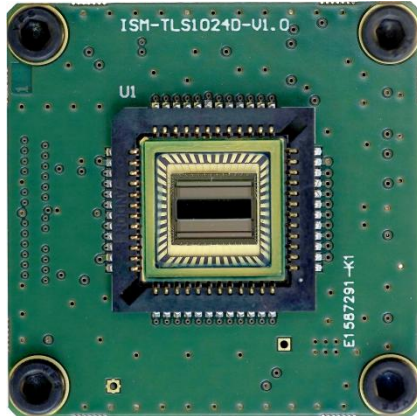


## SWIR Sensor Module



### Key Features: Digital InGaAs Linear Image Sensor

- ✓ 1024 x 1 - 6.25 $\mu$ m pixel pitch, Line-scan array
- ✓ Wide dynamic range with Low noise
- ✓ Low power < 300 mW
- ✓ Embedded Non Uniformity Correction (NUC) & Bad Pixels Replacement (BPR)

### CameraLink and USB3.0 Interface

Frame Capture API and SDK for WINDOWS Developers

### IRENE VISION Software & GUI



## Specifications

Model Name	ISM-TLS1024D
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## IR Image Sensor

Vendor / Name	Spectrum In Motion TLS1024D-625
Technology	InGaAs, SWIR
Pixel pitch	6.25µm
Max. Resolution	1024 x 1
Spectral Response	0.9 to 1.7 µm
Operability	99.6%
Bit depth	12 bits

## Interface

Module Interface	CameraLink or USB3.0
Frame Rate	60Hz (default settings), up to 30KHz Max.
Control Interface	RS232
Trigger Input	Yes, 3.3V LVTTTL / LVCMOS
Trigger Output	Yes, 3.3V LVTTTL / LVCMOS

## Mechanical

Dimensions (LxWxH)	Stacking size 40mmx40mm x10mm
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## Electrical & Environmental

Input voltage	5V to 7V Max.
Power consumption	< 1.5 W (including SWIR image sensor)
Operating temperature	-10°C to +70°C
Storage temperature	-10°C to +80°C
Ambient Humidity	95% RH

## Software Support

Library and SDK for Windows Developers	YES
API Language	C / C++