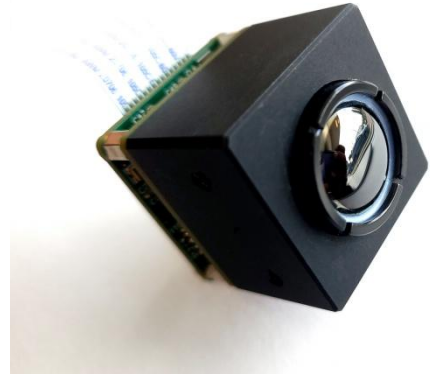
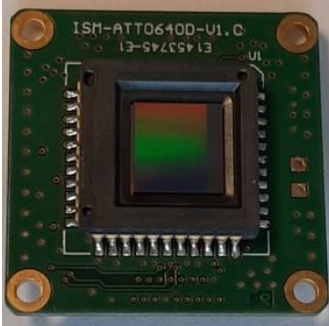


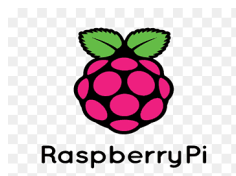
Infrared Sensor Module with MIPI CSI-2 Digital Output



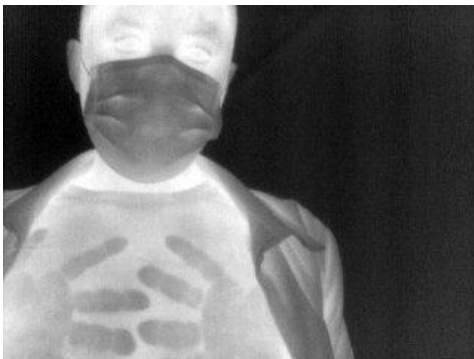
Key Benefits & Features

- ✓ 640 x 480 - 12µm pixel pitch, Lynred thermal imager
- ✓ GUI Software including NUC & BPR
- ✓ Shutterless continuous imaging
- ✓ Low power LWIR sensor (< 300 mW)

MIPI CSI-2 Frame Capture API and drivers for V4L2
Developers Platforms NVIDIA JETSON Xavier NX and Nano / Raspberry Pi 4



Interface Software
CSEye GUI



Specifications

Model Name ISM-ATTO640D

IR Image Sensor

Vendor / Name Lynred
ATTO640D-02
Technology Uncooled (Microbolometer), LWIR
Pixel pitch 12µm
Max. Resolution 640 x 480
Sensor performance NETD < 50 mK (for ATTO640D-02), or < 40mK (for ATTO640D-02+)
Optical lens 5.3 mm F/1.3 HFOV (89°) fixed focus or others (customized on request)
Bit depth 14 bits

Interface

Module Interface MIPI CSI-2, 2 lanes
Frame Rate 30Hz (standard) or 60Hz
Control Interface I2C (2 wires serial communication)
Interface Connector MOLEX FPC 15POS 1.0 MM : 52271-1579
Trigger Input Yes, 3.3V LVTTTL / LVCMOS
Trigger Output Yes, 3.3V LVTTTL / LVCMOS
GPIO 1 OUT, 1.8V LVCMOS

Mechanical

Dimensions (LxWxH) Stacking size
30mm x30mm x10mm

Electrical & Environmental

Input voltage 5V to 12V.
Power consumption < 0.60 W (including LWIR image sensor)
Operating temperature -40°C to +85°C
Storage temperature -40°C to +85°C
Ambient Humidity 95% RH

Software Support

Driver V4L2 Based Device Driver
Supported Platform(s) NVIDIA JETSON Xavier NX / JETSON Nano / Raspberry PI IV
Linux Version(s) Kernel 4.9.201
API Language C / C++

Accessories

Flex cable 150 mm WURTH : WR-FFC 686715152001

Interface GUI for NVIDIA JETSON Xavier NX JETSON Nano and Raspberry PI IV

CSEye GUI and SDK Camera Control, Image Capture and Viewer Software

