



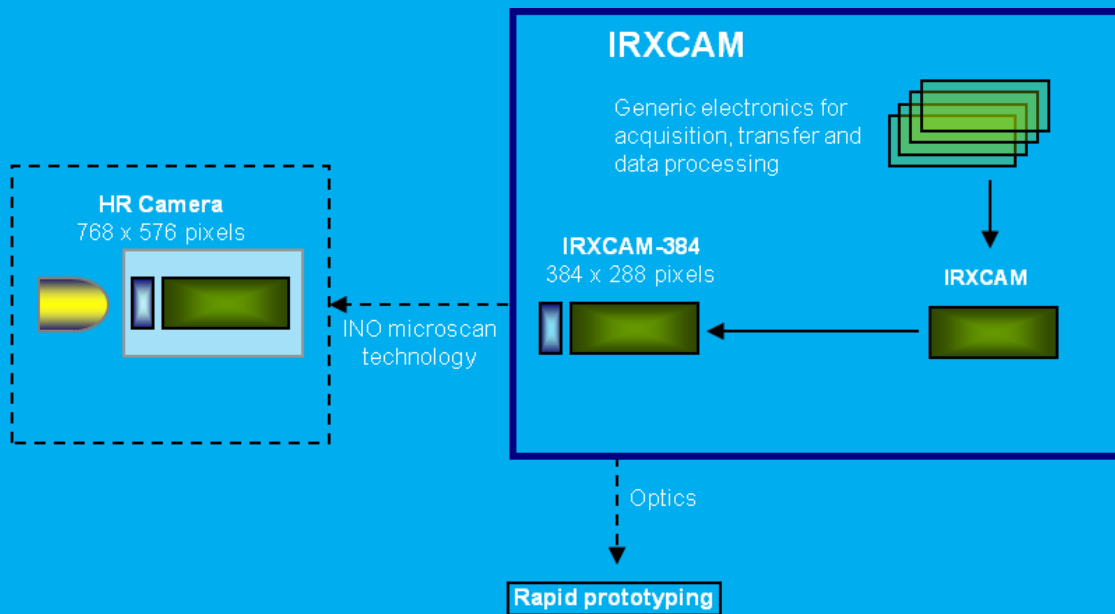
IRXCAM 384

The IRXCAM-384 camera core is a flexible module based on a 384 x 288 pixel uncooled microbolometer FPA which may be rapidly modified to accommodate other resolutions and sensor types. Providing 16-bit raw signal and 8-bit final image outputs at 50 Hz, the electronics gives total access to the detector configuration parameters. The camera core on-board processing capability is assured by a TI DM6437 DMP (which has 95% of its resources remaining) and a Xilinx 5VLX50T FPGA (with 20% of its resources available).

The output data is available in raw format over GigE. The camera core can be configured for outdoor operation from -10°C to 50°C at maximum sensitivity.

The module is composed of a set of electronic boards that handle raw data acquisition and data transfer over GigE. The FPA is mounted on proximity electronics that are adaptable to various FPAs.

GENERAL ARCHITECTURE



INO is a world-class center of expertise in industrial applications for optics and photonics, and a leading technology developer and provider of uncooled microbolometers and IR module technologies.

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SHORT-RUN PRODUCTION — TECHNOLOGY TRANSFERS

IRXCAM 384

PRELIMINARY TECHNICAL SPECIFICATIONS*

PARAMETERS	UNIT
Sensor	384 x 288 pixels Uncooled microbolometer LWIR (8-12 μm)
Video output	GigE RJ-45 16-bit raw data image
Framerate	50 Hz
NETD	<80 mK @ 300 K
Optics	F/#1 Available
Control	GigE Link System operation control Loading of parameters
Options	TEC driver Microshutter Thermistor interface (x2)
Power consumption	6 W
Power supply	9-12 V
Dimensions	65 mm(H) x 59 mm(W) x 105 mm(L)
Weight	230 g
Temperature	Operating: -10°C to 50°C
Mechanics	Integrated heatsink
Pixel pitch	35 μm

*Subject to change

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