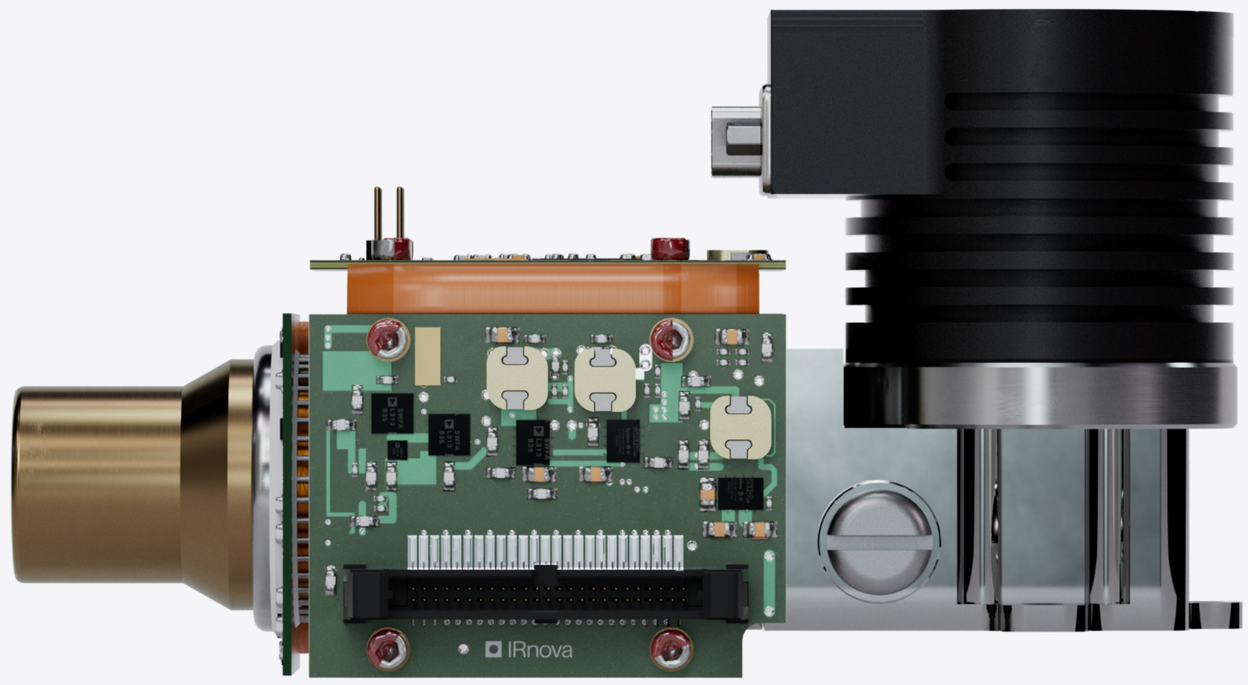
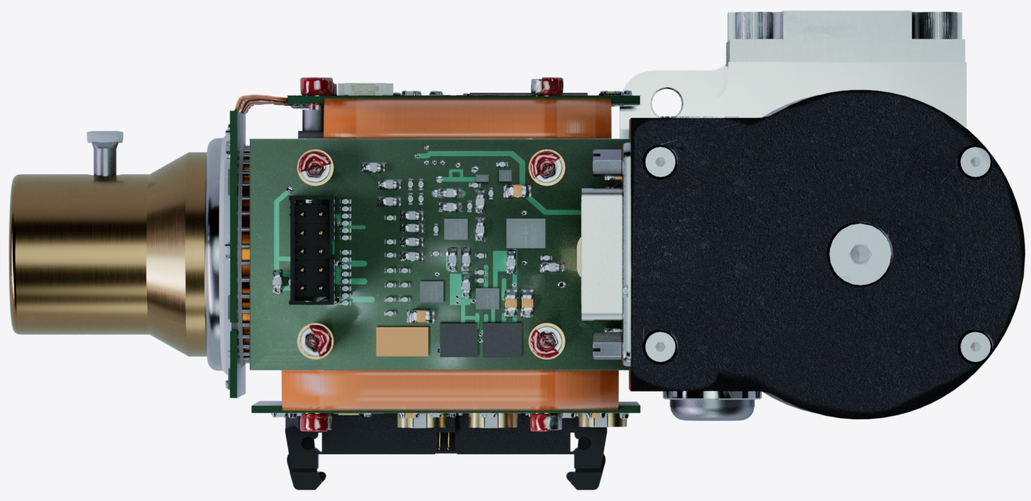
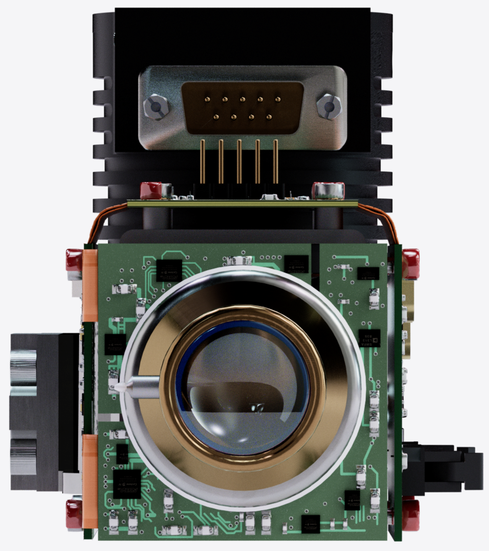
IRnova

QWIP
Tor LW

The Tor LW provides outstanding image quality for general purpose detection. Loaded with QWIP — our most proven technology — the Tor LW gives you stability and uniformity you can count on when you need it most in a host of different applications.







Description

The Tor LW is a 15 µm pitch QWIP detector serving high-end cooled LWIR applications. IRnova's mastered QWIP technology is the world's most proven material. The Tor LW's unique 15 µm pitch array combines inherent QWIP benefits (high uniformity, stability and operability) with state-of-the-art LWIR array size and performance.

Applications

- Border security and surveillance cameras
- Air defence target tracking (including UAVs)
- Tank sights, maritime applications and firefighting
- Industrial applications (thermography, NDT...)
- Airborne / space earth imagery

General information

Application: General purpose

Format: 640x512

Technology: QWIP

Pixel pitch: 15 µm

Typical detector performance

Spectral range: 7.7 - 9.1 µm

F number options: F/2, F/2.24

NETD: 25 mK

Pixel operability: 99.9%

Frame rate: 60 Hz
(Selectable frame rate up to 120 Hz supported by ROIC)

Proximity electronics

Supply voltage: 12 V

Maximum frame rate: 60 Hz
(Selectable frame rate supported)

Electrical interfaces: Camera Link
(Cooler control and proximity electronics included)

IDDCA Parameters

Cooler options: RM3
(K508 and K508N options available)

Power consumption: 6 W / 12 W
(Steady state / Cooldown)

Cool down time: 5 min

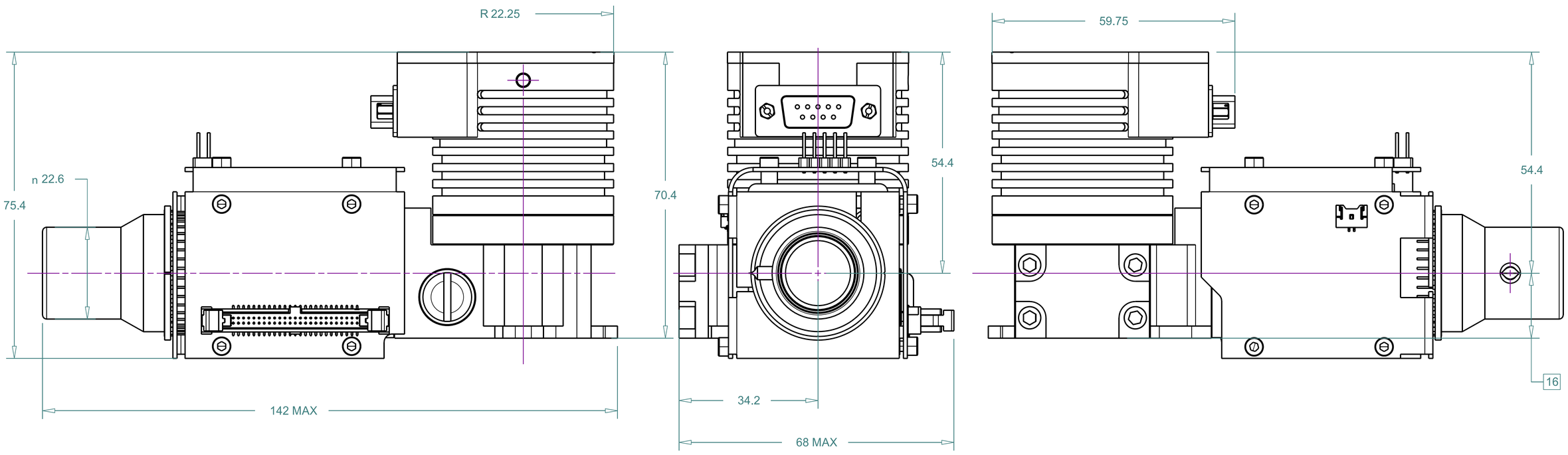
Cooler voltage: 12 V
(24 V cooler options available)

Weight: 550 g

Cooler MTTF: 10 000 h

Dimensions: 71x57x142 mm

Environmental conditions:
MIL-STD-810



Technical characteristics described above are not contractual and may change without prior notice. This is revision 1.0.