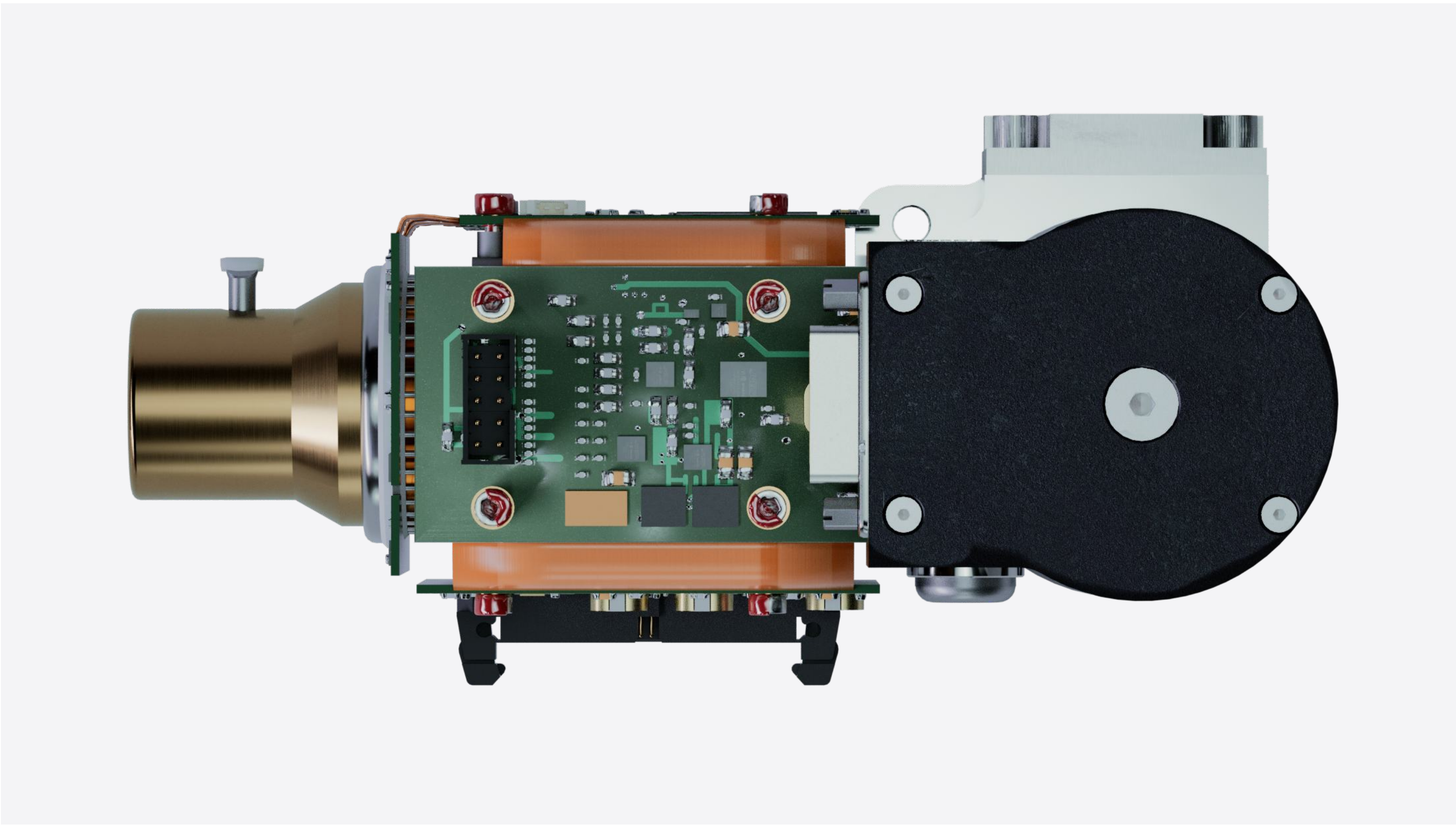
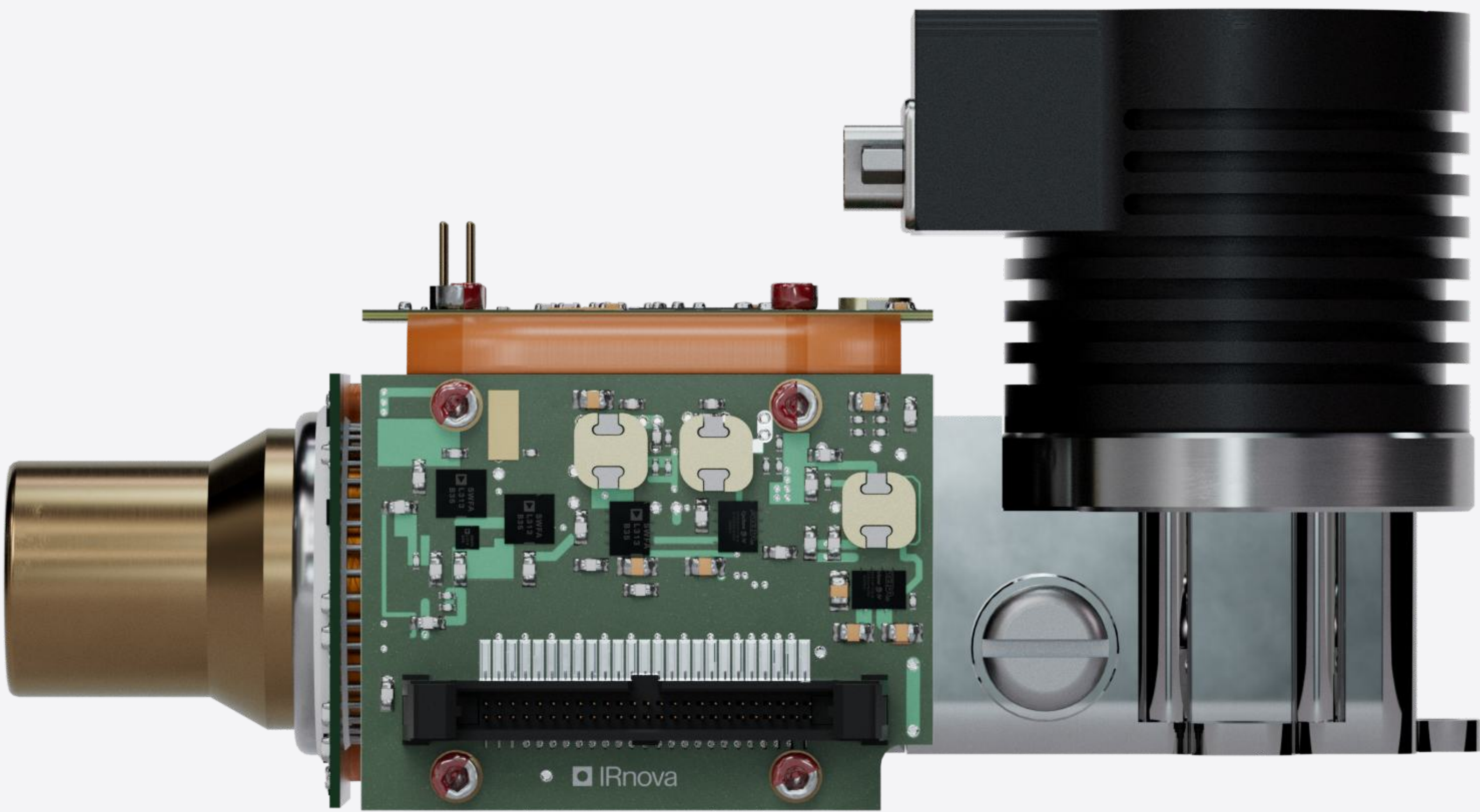


QWIP Tor

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



Description

The Tor 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'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

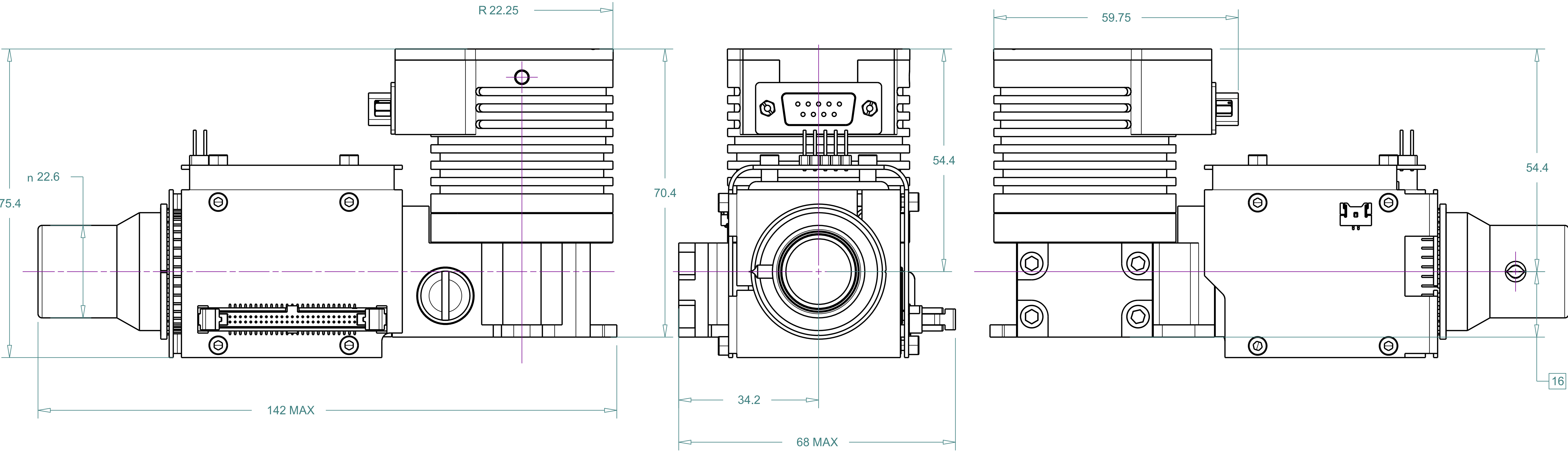
Spectral range: 7.7 - 9.1 µm	Pixel operability: 99.9 %
F number options: F/2, F/2.24	MTF: 45 % @ Nyquist frequency
NETD: 30 mK @F/2.24, 60 Hz	

Proximity electronics

Supply voltage: 5 V	Electrical interfaces: Camera Link Cooler control and proximity electronics included
Maximum frame rate: 60 Hz 120 Hz optional	

IDDCA Parameters

Cooler options: RM3i, K508, K508N, SRI401	Weight: 590 g
Power consumption: 5.5 W Without proximity electronics	Dimensions: 142x76x68 mm
Cool down time: 5 min	Cooler MTTF: 31 500 h
Cooler voltage: 12 V 24 V options available	Environmental conditions: MIL-STD-810



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