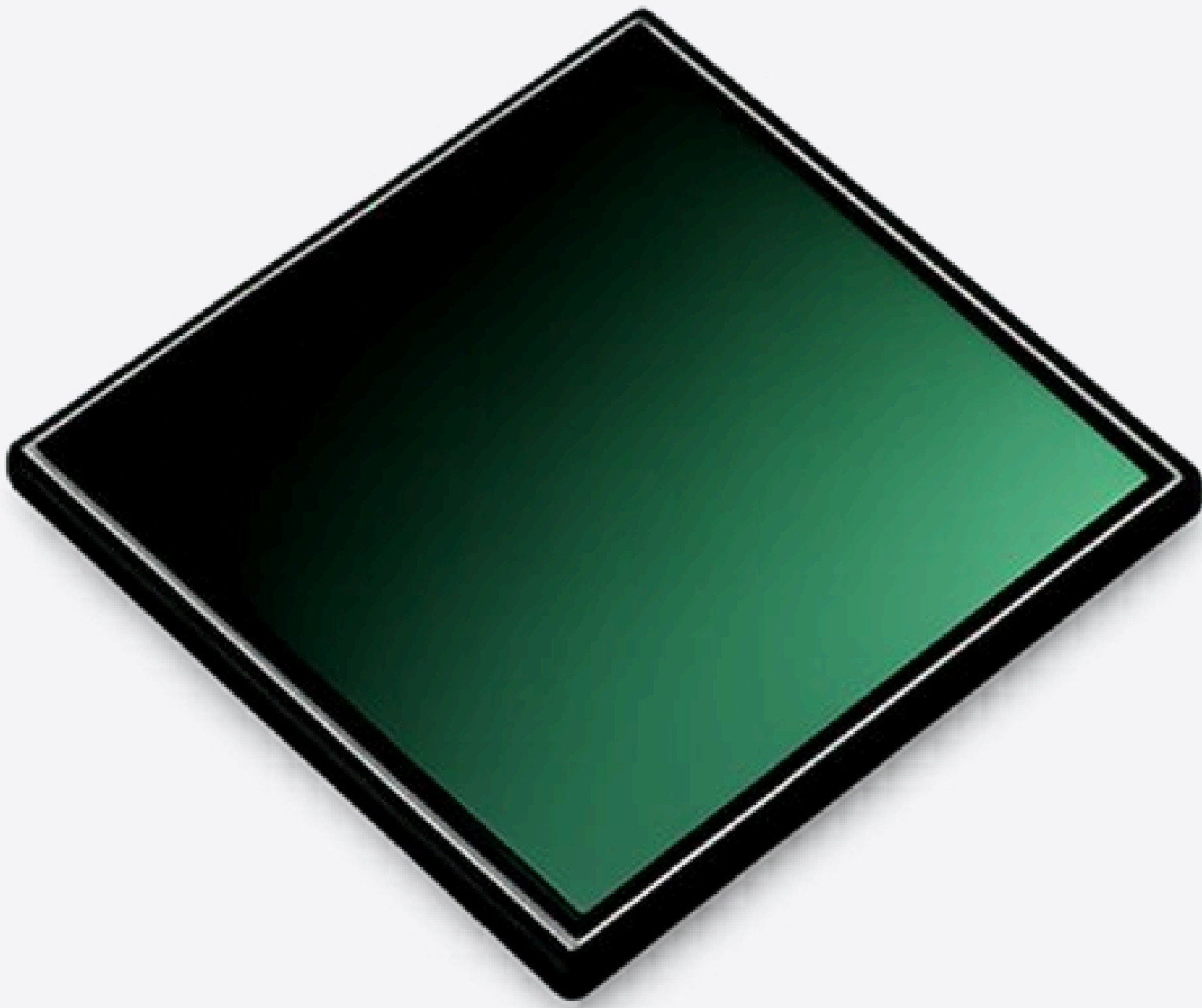


T2SL Balder

Experience the revolution. IRnova eSWIR T2SL technology, originally designed for space, now on the market at VGA level.



Balder FPA
eSWIR T2SL



Balder SL
eSWIR T2SL - K588



Balder
eSWIR T2SL - RMs1

Description

With the Balder, IRnova's T2SL now brings the ultimate sensitivity, uniformity, stability, and resolution to the full shortwave spectral range. The detector is available in three formats: SWaP rotary, SWaP split linear, and also in FPA format for manufacturers wishing to integrate into a TEC-cooled system.

Applications

- ✓ Space monitoring
- ✓ Machine vision
- ✓ Enhanced visibility through degraded environments
- ✓ Industrial monitoring
- ✓ Active imaging with SWIR light source
- ✓ Spectrometry

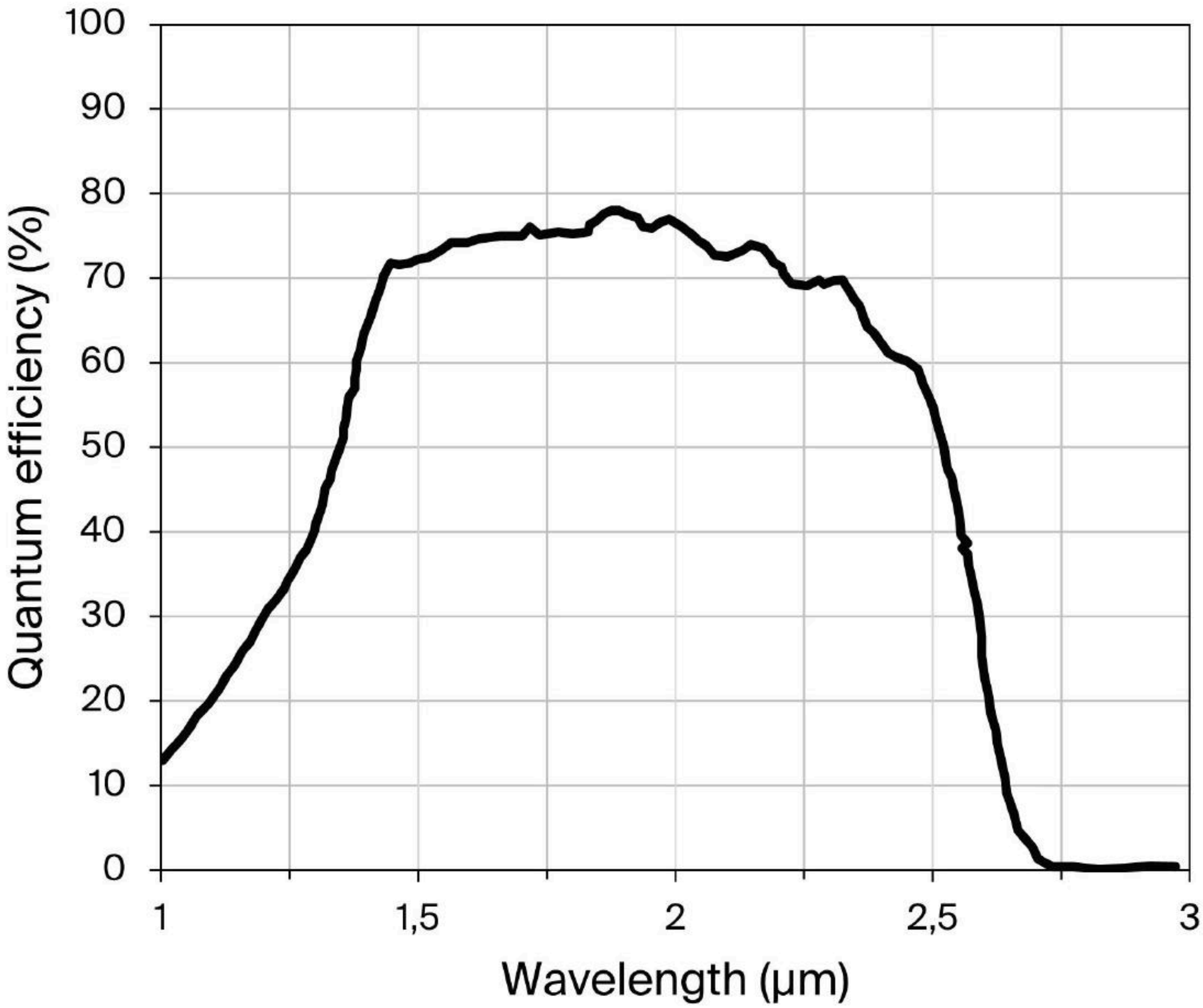
General information

Application: General purpose	Format: 640x512
Technology: T2SL	Pixel pitch: 15 µm

Typical detector performance

Spectral range: 0.9 - 2.5 µm	Pixel operability: 99.9%
QE: > 70 % [1.5 - 2.3 µm]	Dark current at 180 K: <0.5 µA/cm2
PRNU: < 2%	MTF at Nyquist: > 60%

Typical spectral response



Read-out electronics

Read-out modes: Windowing, ITR IWR and IMRO

Frame rate: 150 Hz (300 Hz optional)

Supply voltage: 5 V

Electrical interfaces: Camera Link
Cooler control and proximity electronics included

IDDCA Parameters

Cooler options: RMs1 or K588

Power consumption: < 2 W
Without proximity electronics

Cool down time: 3.5 min

Cooler voltage: 12 V

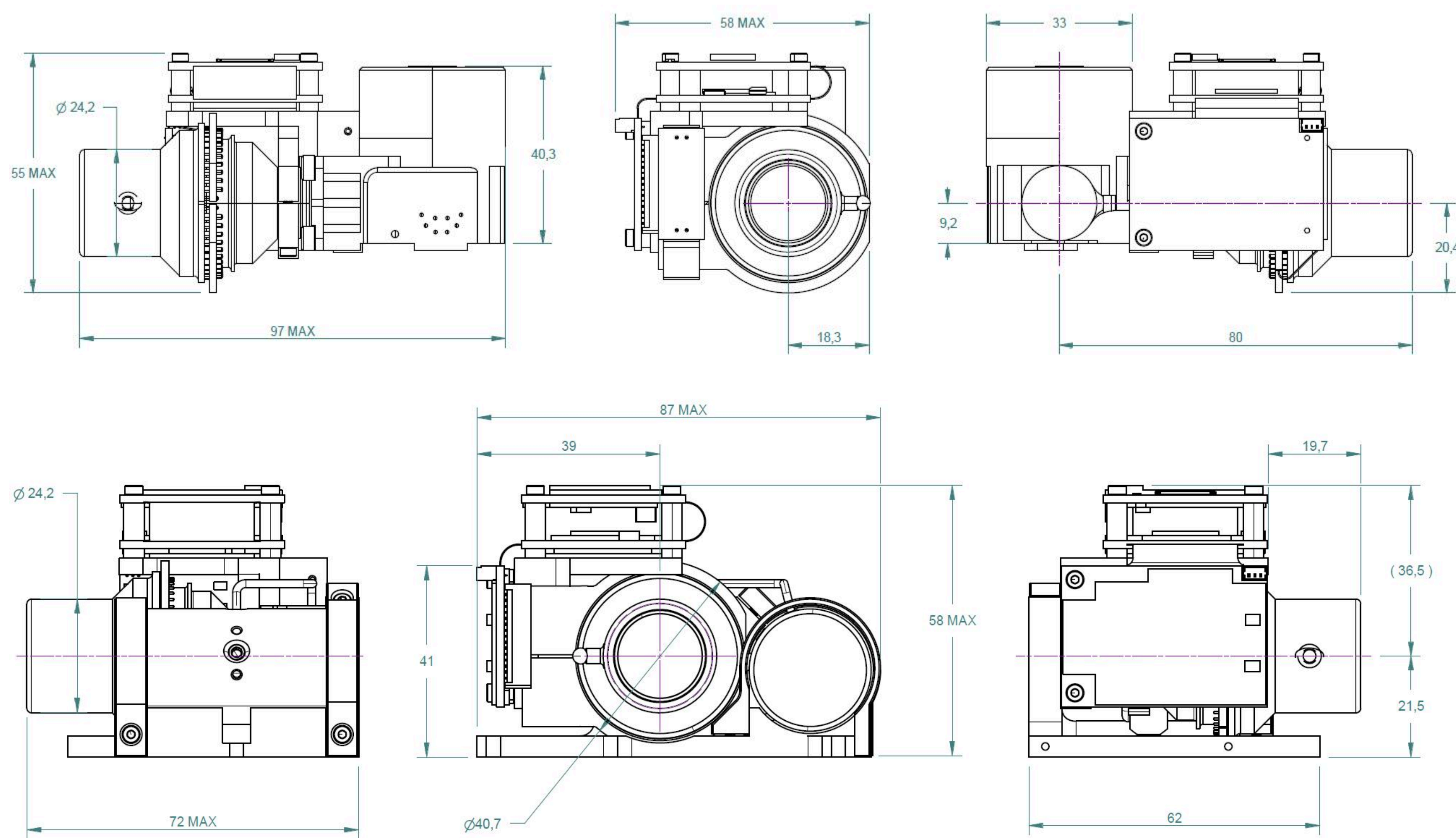
C-mount compatible configuration
Optional

Weight: 240g (RMs1), 330g (K588)

Dimensions: 97x58x55 mm (RMs1)
87x72x58 mm (K588)

Cooler MTTF: > 40.000 h

Environmental conditions: MIL-STD-810



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