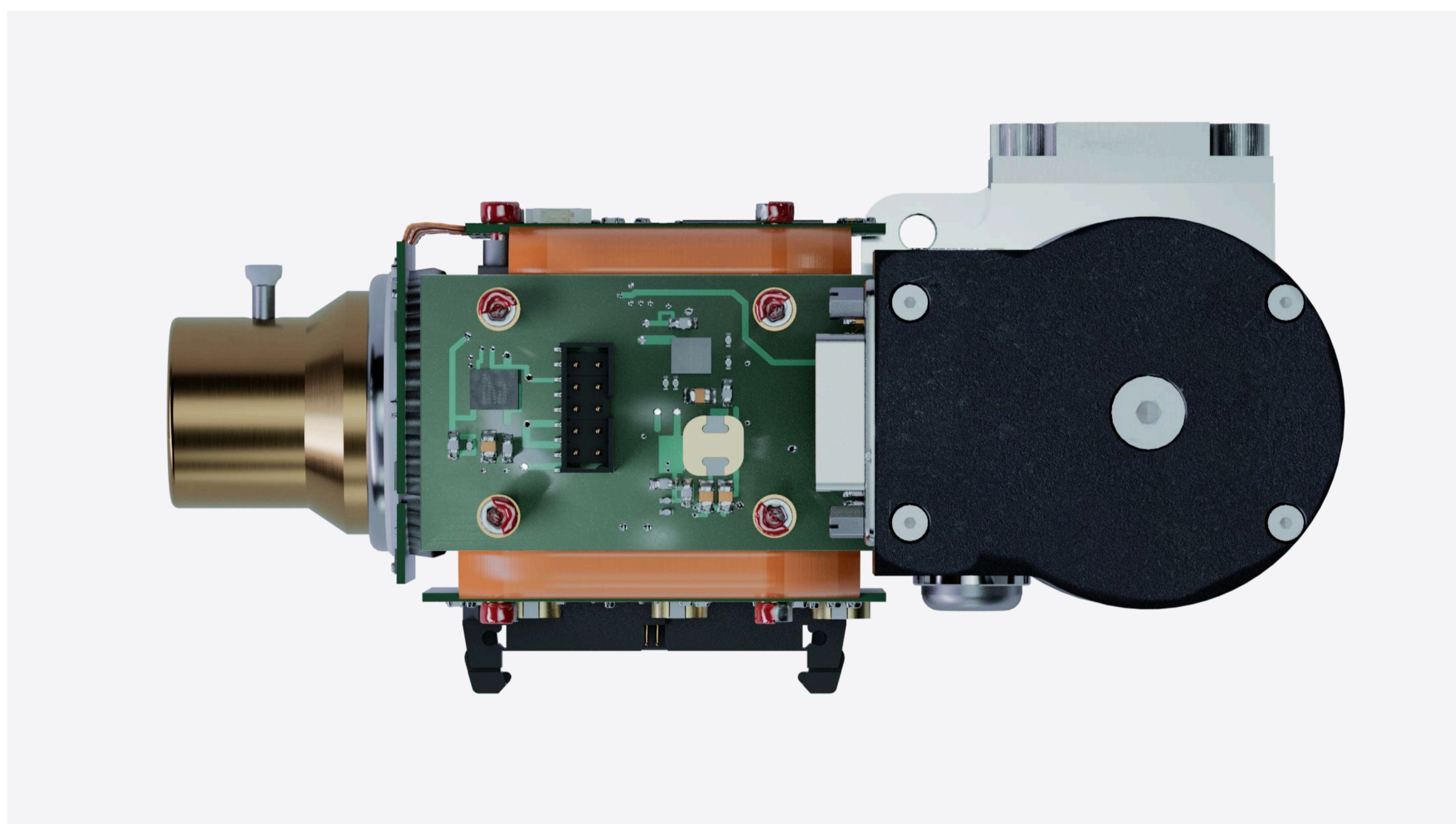
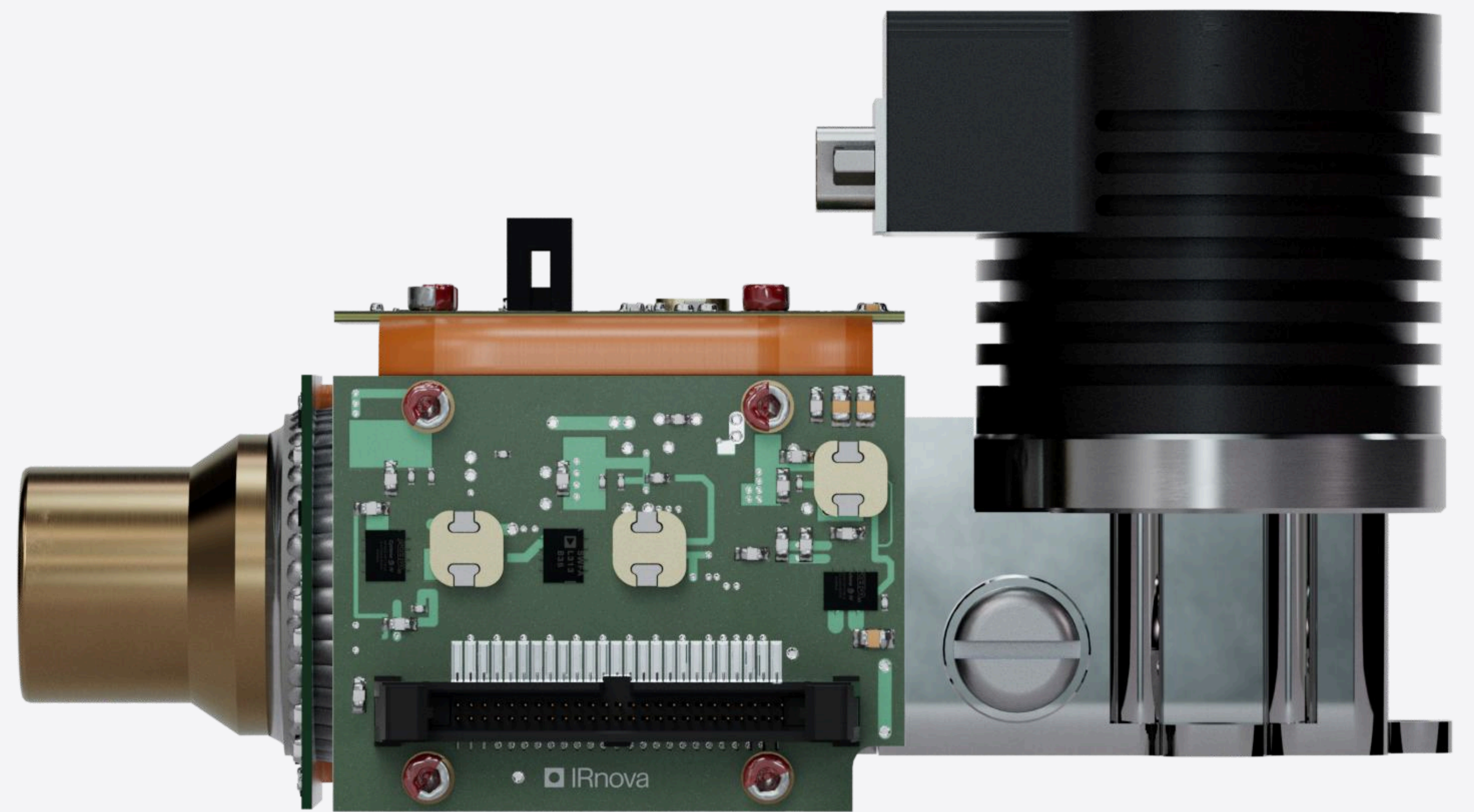


# T2SL Freja 430

Optimized for carbon dioxide (CO<sub>2</sub>) detection, the Freja 430 is lightweight, and the clear choice for handheld cameras and on-the-go applications that need the accuracy, stability and sensitivity provided by T2SL technology.



## Description

The new Freja 430 detector takes advantage of IRnova's T2SL technology breakthrough and a wide F/1.2 optical aperture to provide best-in-class gas detection capability for carbon dioxide having its absorption peak near 4.3 $\mu$ m.

## Applications

- ✓ Optical gas imaging for any gas with absorption in 4.3  $\mu$ m range
- ✓ Optimized for carbon dioxide (CO<sub>2</sub>) detection
- ✓ Handheld and battery powered cameras
- ✓ Mobile and stationary platforms

## General information

Application: Gas & pollution detection

Format: 320x256

Technology: T2SL

Pixel pitch: 30  $\mu\text{m}$

## Typical detector performance

Spectral range: 4.2 - 4.4  $\mu\text{m}$

Pixel operability: 99.9 %

F number options: F/1.2

MTF: 64 %  
@ Nyquist frequency

NETD: 10 mK @F/1.2, 30 Hz

## Proximity electronics

Supply voltage: 12 V

Electrical interfaces: Camera Link  
Cooler control and proximity  
electronics included

Maximum frame rate: 60 Hz

## IDDCA Parameters

Cooler options: RM3i, K508, K508N,  
SRI401

Weight: 590 g

Power consumption: 5.5 W  
Without proximity electronics

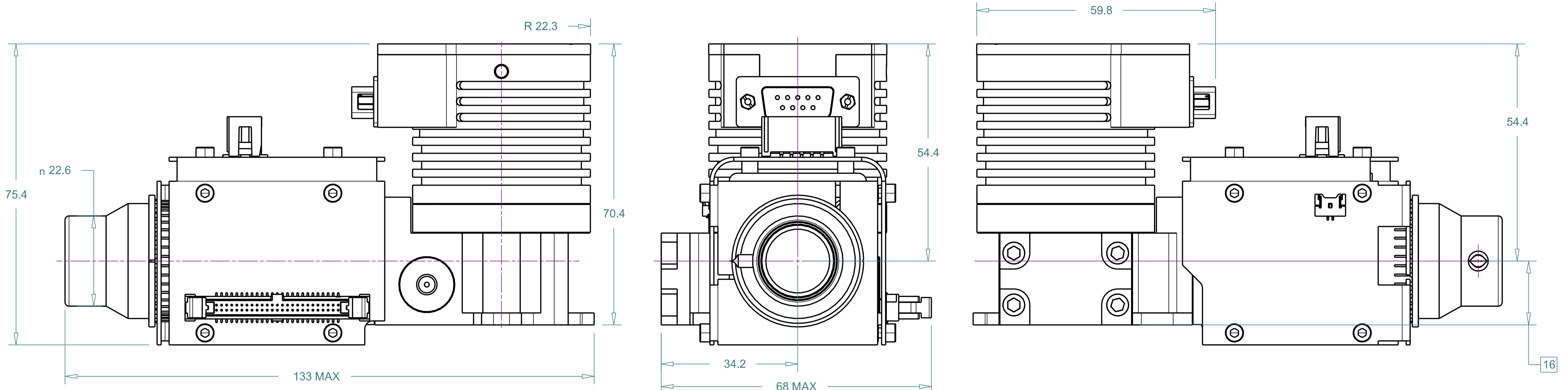
Dimensions: 133x76x68 mm

Cool down time: 3 min

Cooler MTTF: >50 000 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.