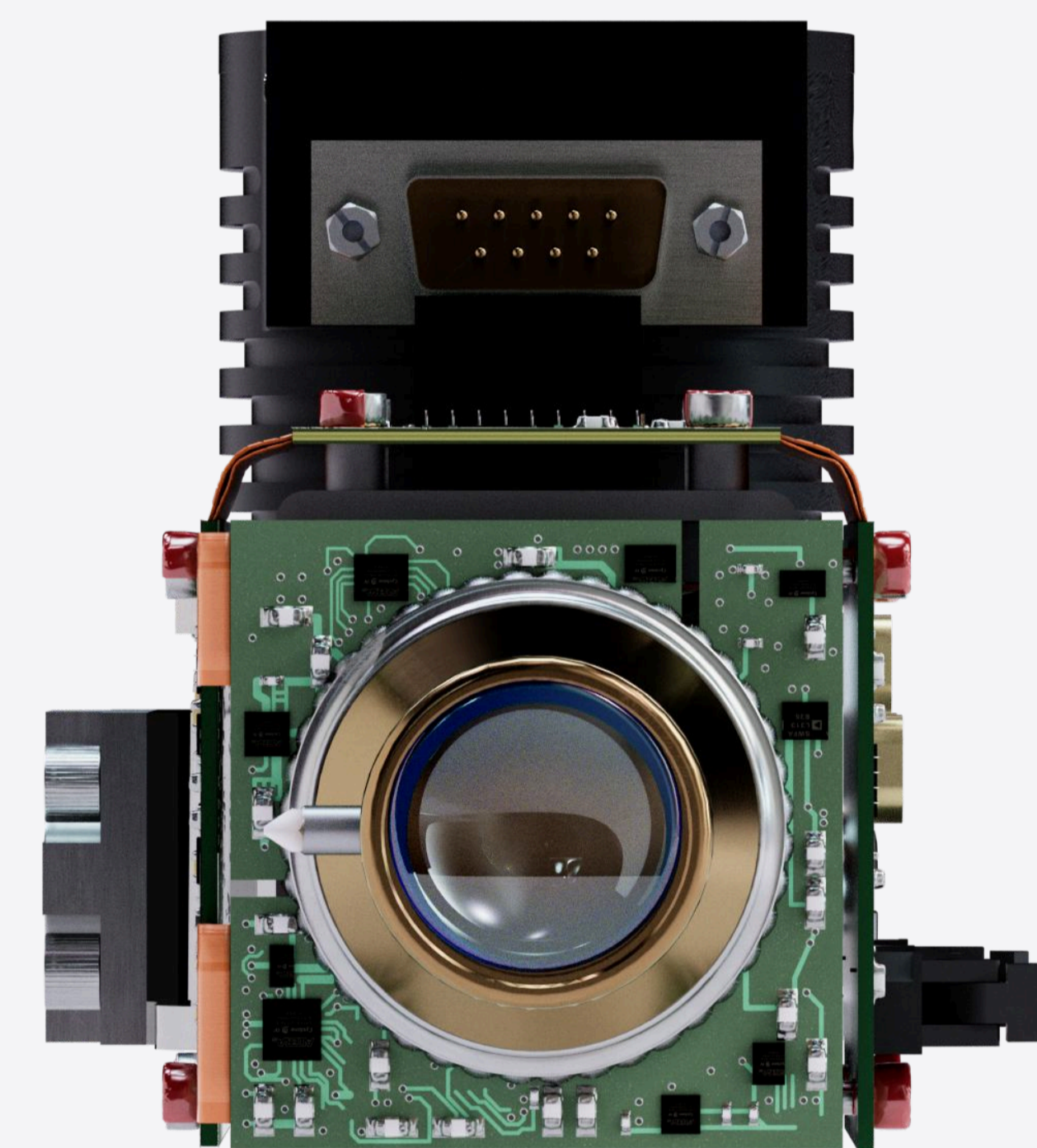
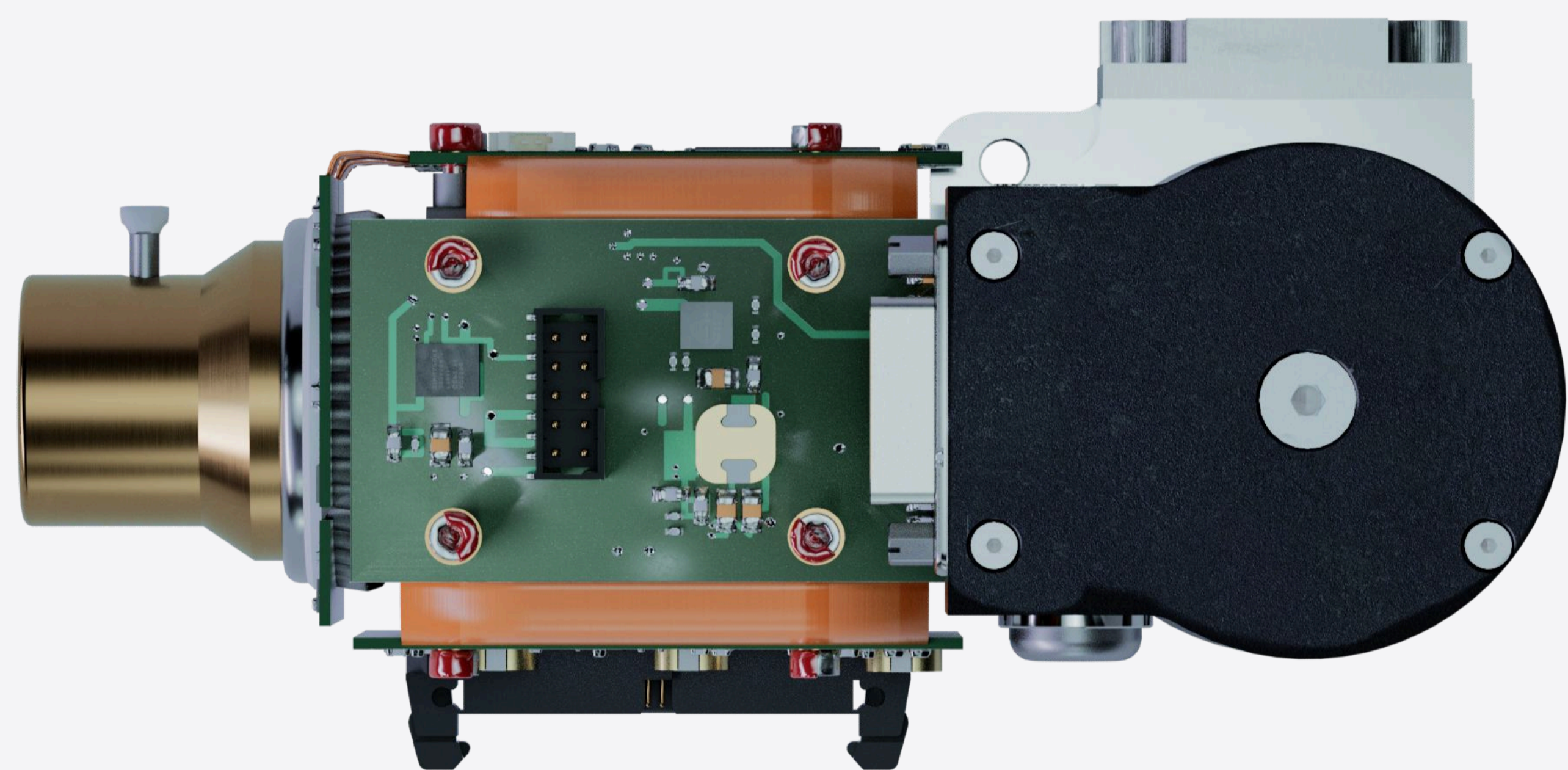
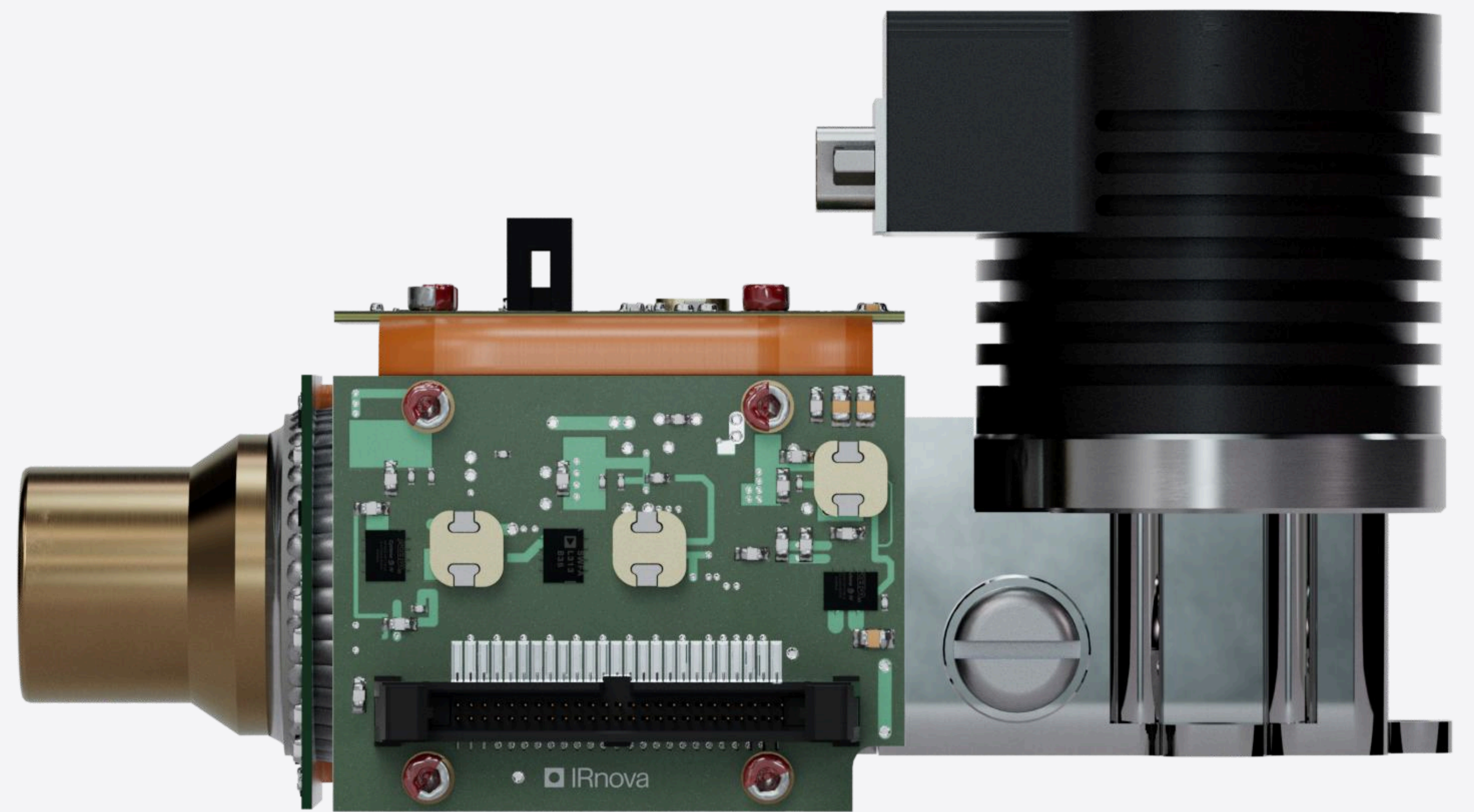


# T2SL Freja X

Our most customizable detector: the Freja X boasts all the same features as the Freja range, but with a spectral range you can customize to your requirements. Specialized for gas and pollution detection, the Freja X is the perfect choice for handheld and battery operated cameras.



## Description

In addition to our off-the-shelf detectors, we can also offer the Freja detector with a customized filter tailored to your specifications and needs. Get in touch and we'll start designing your detector.

## Applications

- ✓ Optical gas imaging for any gas with absorption in the MWIR (3-5  $\mu\text{m}$ ) range
- ✓ 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:** Customizable  
MWIR

**F number options:** F/1.2

**NETD:** 10 mK @F/1.2, 30 Hz

**Pixel operability:** 99.9 %

**MTF:** 64 %  
@ Nyquist frequency

## Proximity electronics

**Supply voltage:** 12 V

**Maximum frame rate:** 60 Hz

**Electrical interfaces:** Camera Link  
Cooler control and proximity  
electronics included

## IDDCA Parameters

**Cooler options:** RM3i, K508, K508N,  
SRI401

**Power consumption:** 5.5 W  
Without proximity electronics

**Cool down time:** 3 min

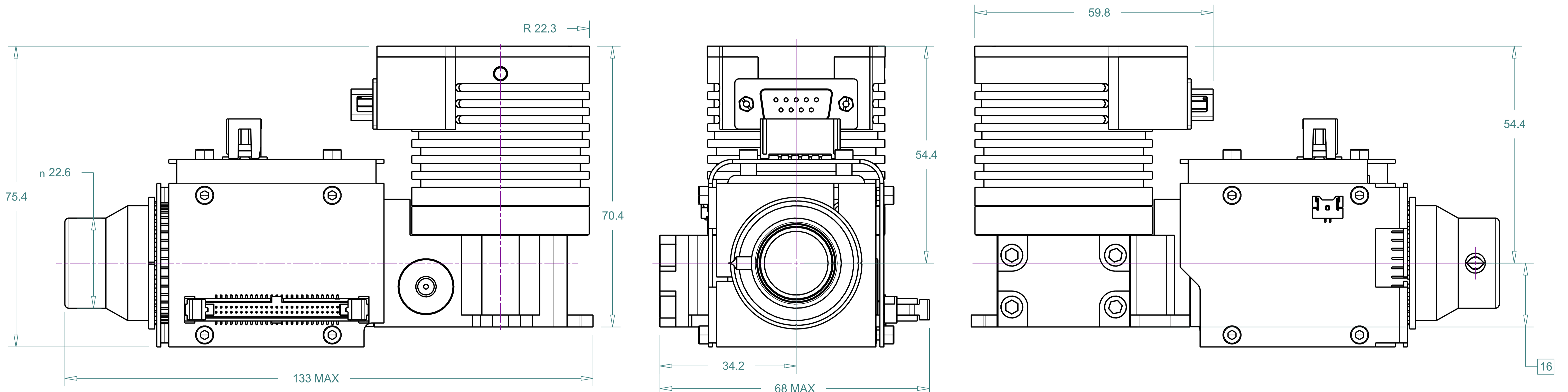
**Cooler voltage:** 12 V  
24 V options available

**Weight:** 590 g

**Dimensions:** 133x76x68 mm

**Cooler MTTF:** >50 000 h

**Environmental conditions:** MIL-  
STD-810



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