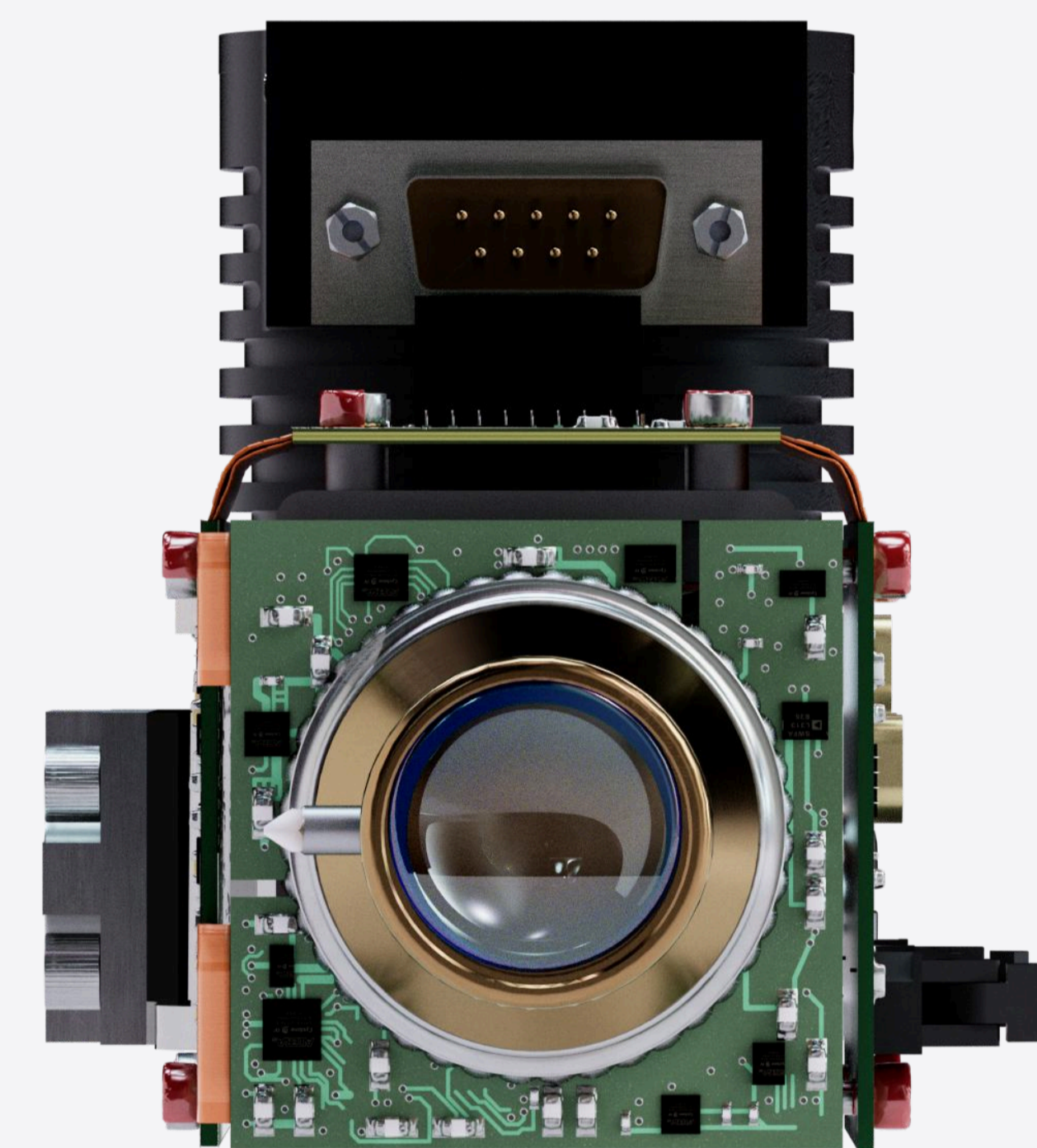
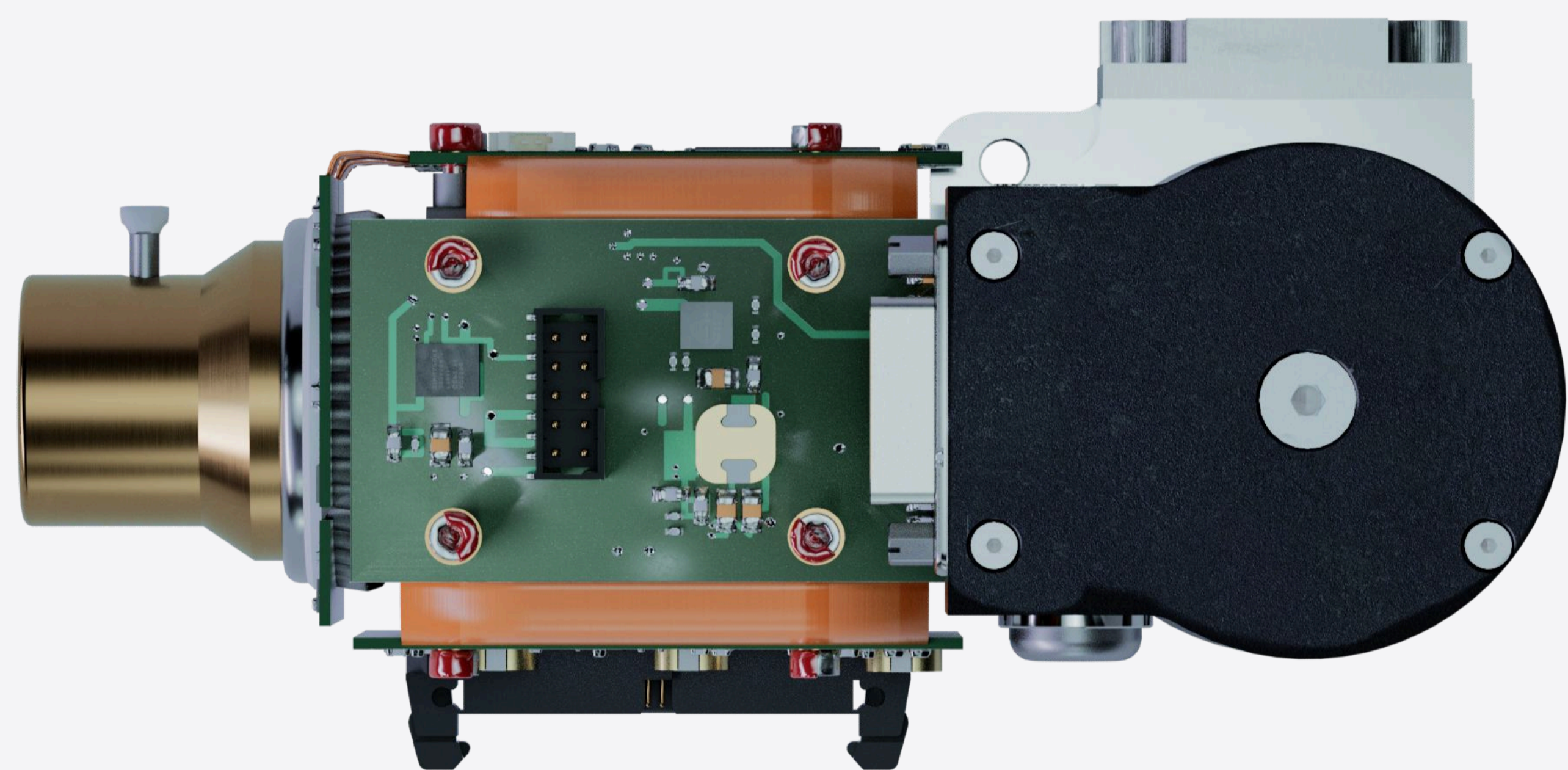
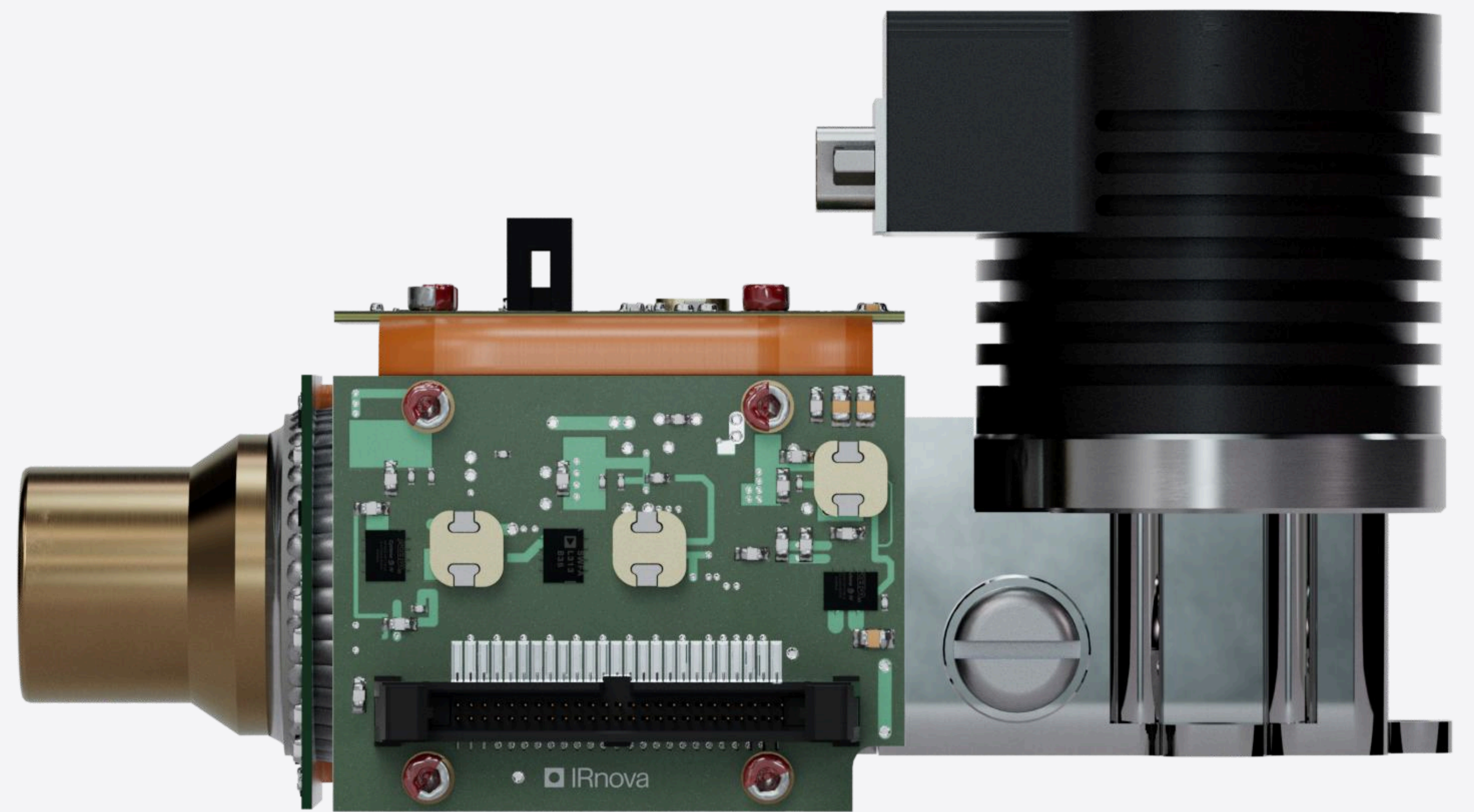


# T2SL Freja 390

The Freja 390 benefits from IRnova's leading T2SL technology and is accurate at extremely high temperatures. See through flames with highly advanced spectrum monitoring and watch even the hottest furnaces while maintaining stability.



## Description

The new Freja 390 detector filters out everything but a specific part of the spectrum to see through even exceptionally hot flames to make temperature measurements and provide for predictive maintenance in furnace and boiler installations. Freja is custom made for furnace inspections and can detect any number of faults, minimising costly downtime.

## Applications

- ✓ Optical gas imaging for any gas with absorption in the 3.9  $\mu\text{m}$  range
- ✓ Optimized for inspection of furnaces, heaters and boilers (see through flames)
- ✓ 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:** 3.8 - 4.1  $\mu\text{m}$

**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

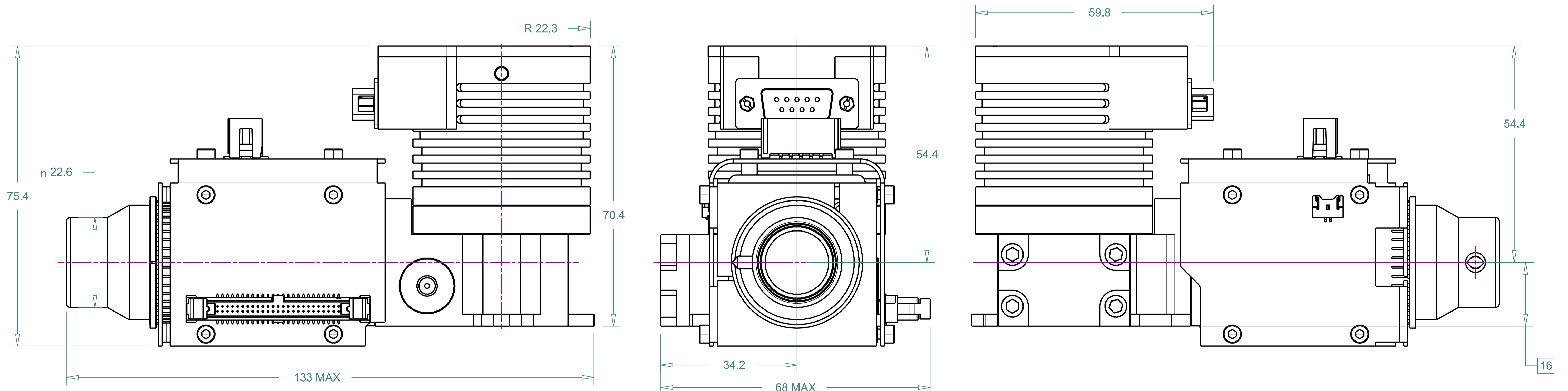
**Dimensions:** 133x76x68 mm

**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.