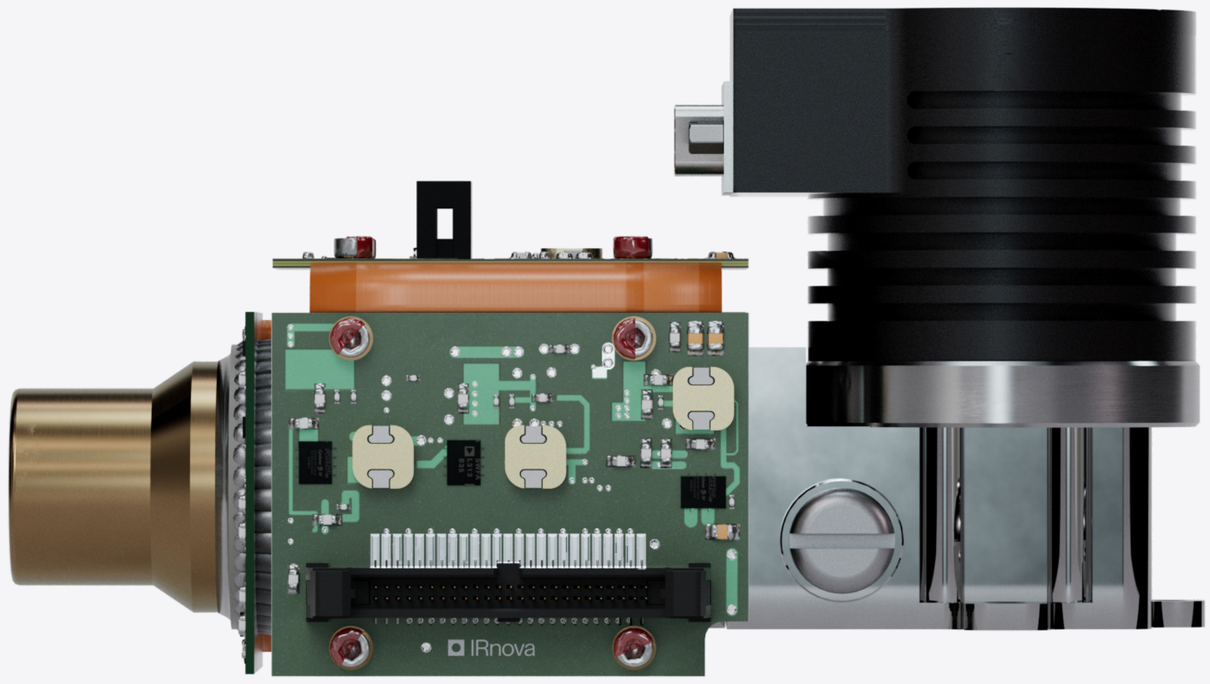
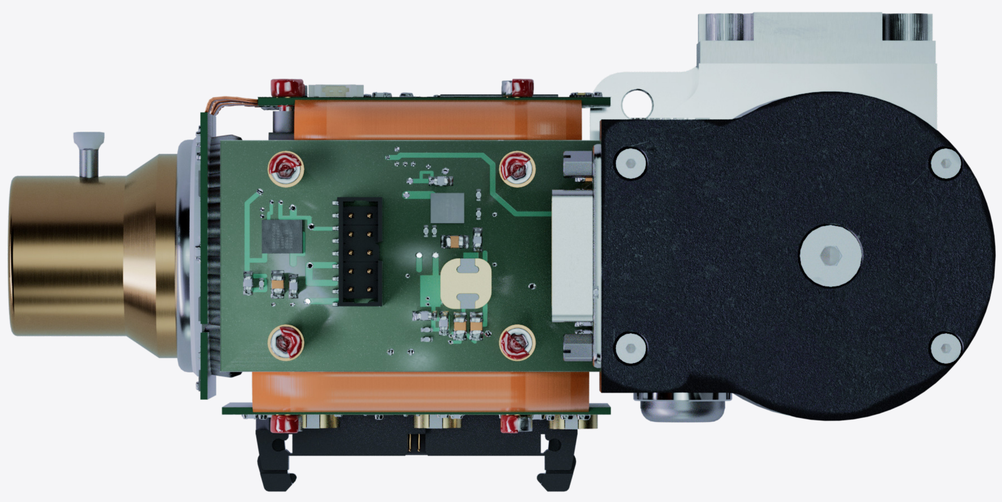
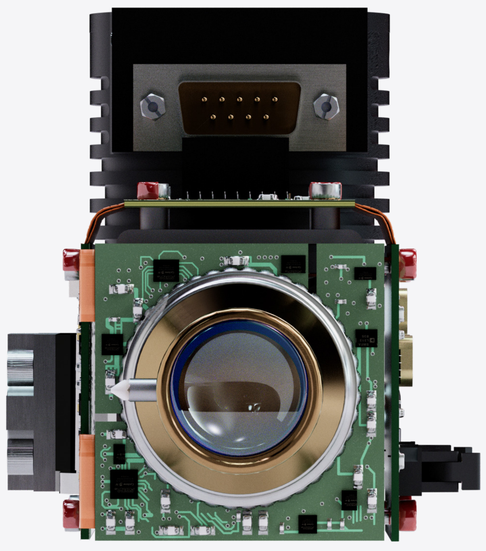
IRnova

T2SL
Freja 330

The Freja 330 is optimized for a smaller spectral range, and makes the most of IRnova's pioneering T2SL technology to provide outstanding VOC gas detection.







Description

The Freja 330 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 VOC gases (volatile organic compounds) having an absorption spectrum around 3.3µm.

Applications

- Optical gas imaging for any gas with absorption in the 3.3 µm range
- Optimized for detection of methane, ethane, propane and other VOC gases
- Handheld and battery powered cameras
- Mobile and stationary platforms

General information

Application: Gas & pollution detection

Format: 320x256

Technology: T2SL

Pixel pitch: 30 µm

Typical detector performance

Spectral range: 3.2 - 3.4 µm

F number options: F/1.2

NETD: 10 mK

Pixel operability: 99.9%

Frame rate: 30 Hz
(Selectable frame rate up to 120 Hz supported by ROIC)

Proximity electronics

Supply voltage: 12 V

Maximum frame rate: 60 Hz
(Selectable frame rate supported)

Electrical interfaces: Camera Link
(Cooler control and proximity electronics included)

IDDCA Parameters

Cooler options: FS R405K
(Other cooler options available)

Power consumption: 6 W / 11 W
(Steady state / Cooldown)

Cool down time: 4 min

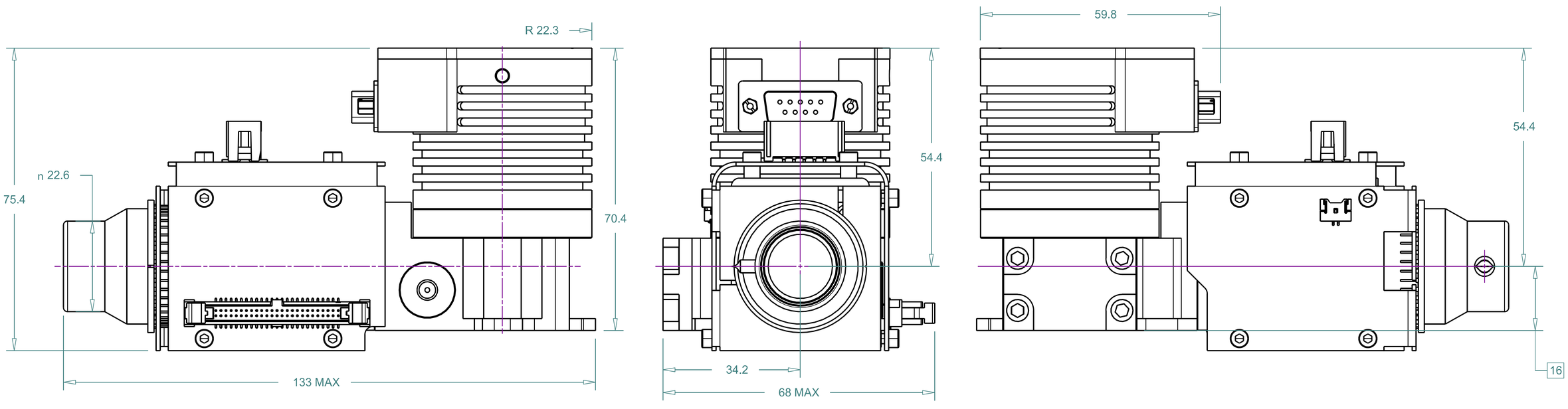
Cooler voltage: 12 V
(24 V cooler options available)

Weight: 550 g

Cooler MTTF: 10 000 h

Dimensions: 71x57x142 mm

Environmental conditions:
MIL-STD-810



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