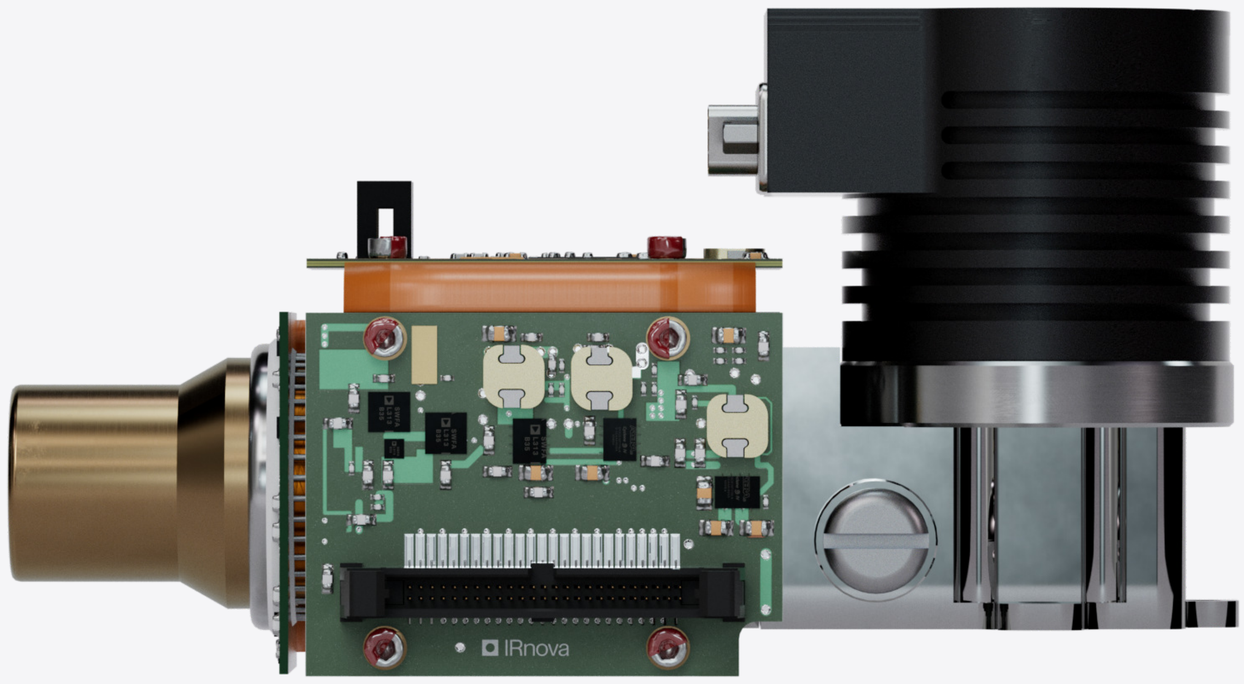
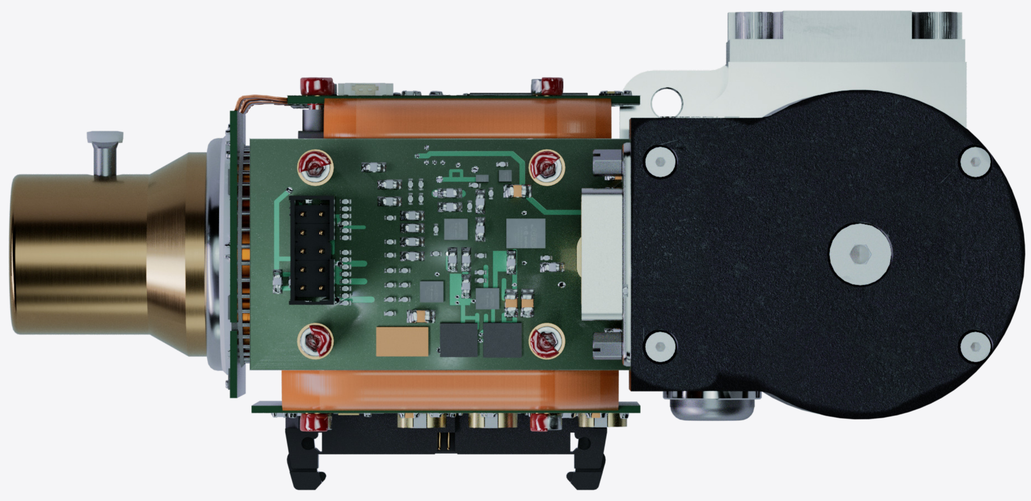
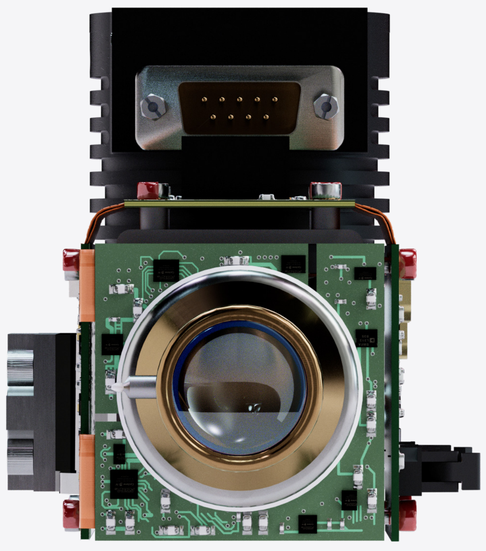
IRnova

# QWIP
# Embla 1055

A sophisticated choice for gas and pollution detection, the Embla 1055 carries IRnova's QWIP technology with a range that makes it ideal for sulfur hexafluoride (SF6), ammonia and ethylene detection.





## Description

The Embla 1055 is the industry standard when it comes to OGI detectors in the upper LWIR region. It is based on a customized QWIP design for maximum sensitivity at precisely 10.55µm. It is a field-proven and widely adopted solution for detection of SF6 (sulphur hexafluoride) as well as ammonia, ethylene and numerous other gases.

## Applications

- Optical gas imaging for any gas with absorption in the 10.55 µm range
- Optimized for sulphur hexafluoride (SF6), ammonia and ethylene detection
- Handheld and battery powered cameras
- Mobile and stationary platforms

## General information

**Application:** Gas & pollution detection

**Format:** 320x256

**Technology:** QWIP

**Pixel pitch:** 30 µm

## Typical detector performance

**Spectral range:** 10.3 - 10.8 µm

**F number options:** F/2

**NETD:** 25 mK

**Pixel operability:** 99.95%

**Frame rate:** 60 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:** RM3
(Other cooler options available)

**Power consumption:** 8 W / 12 W
(Steady state / Cooldown)

**Cool down time:** 6 min

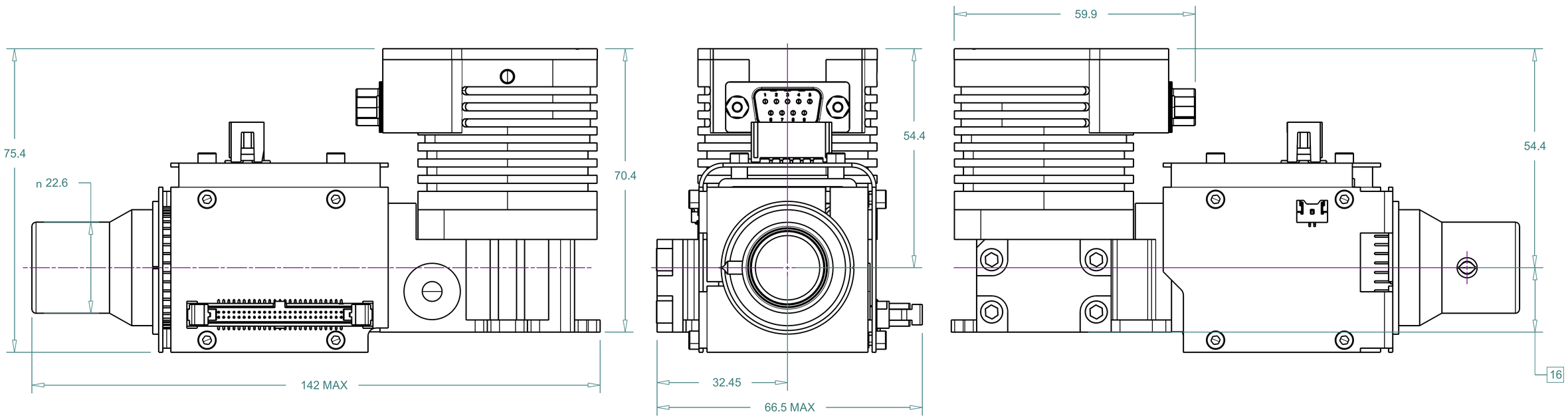
**Cooler voltage:** 12 V
(24 V cooler options available)

**Weight:** 550 g

**Cooler MTTF:** 5 000 h

**Dimensions:** 71x57x142 mm

**Environmental conditions:**
Commercial




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