

2020-04-09


Eric Costard / IRnova

EPIC Online Technology Meeting on IR imaging for Security and Surveillance



About IRnova

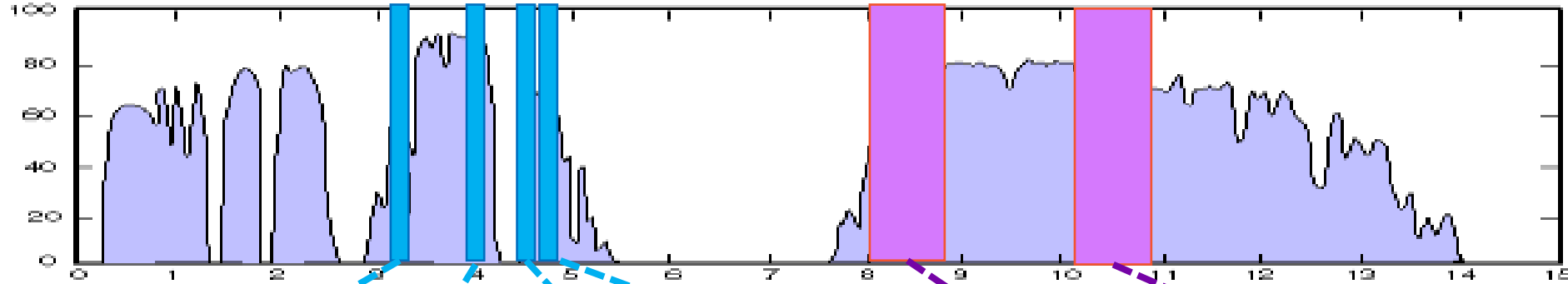


- **EU based IR detectors OEM Supplier** 
 - Independent and Privately owned
- **20+ years of IR sensor R&D and Manufacturing**
 - leading QWIP and T2SL detector manufacturing
 - Several 1000's of QWIP & T2SL detectors fielded
 - Contract manufacturing for III-V material and SWIR detectors
- **Pioneers in Optical Gas Imaging**
 - MWIR and LWIR solutions for all addressable gases
 - QVGA (320x256) and VGA (640x512) solutions available
- **Strong Team and Excellent Facilities**
 - 70% staff share of PhD's and MSc's
 - 2500 m² manufacturing facilities including 1300 m² of clean room



Kista (30km from Stockholm airport)

Optimized sensors for each harmful gas

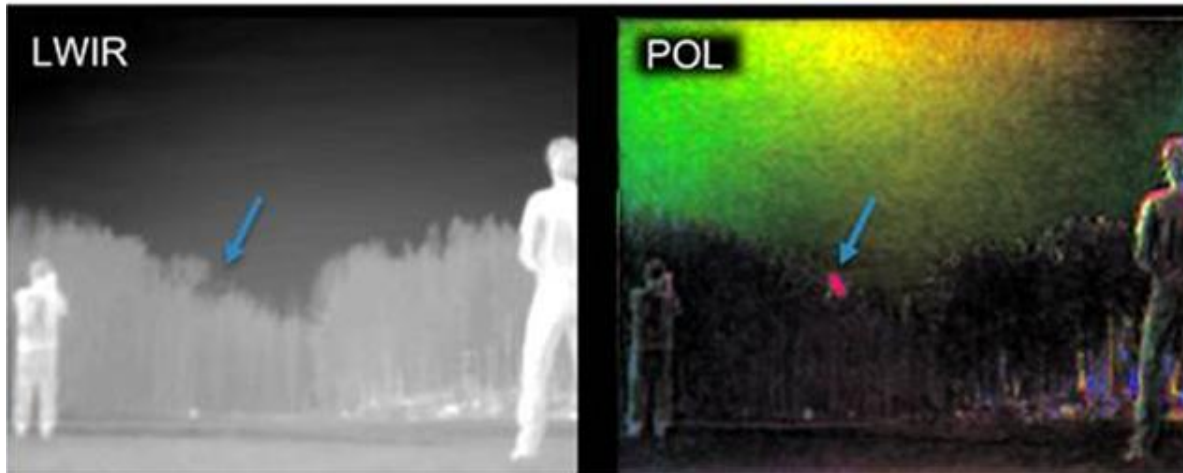
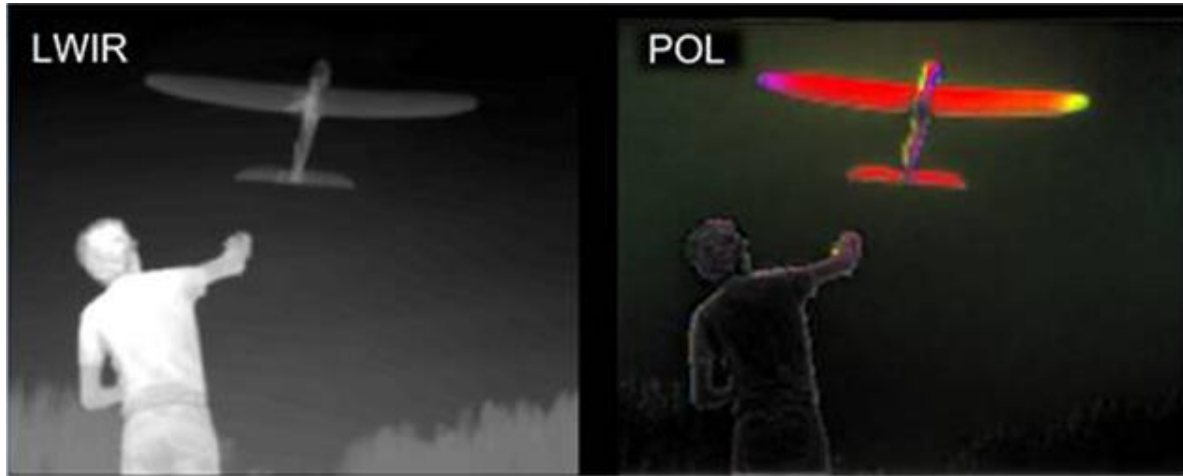


T2SL	Freja 330	Freja 390	Freja 430	Freja 460	IRnova 320ER-830	Idun 1055 Embla 1055	QWIP
	VOCs Methane Ethane	Furna ce inspe ction	CO ₂	CO, Ketene, N ₂ O	HFC, R404A, R407C	SF ₆ , Ethylene, Ammonia	
320x256	F#2 and F#1.2				F#2		
640x512					F#1.2		



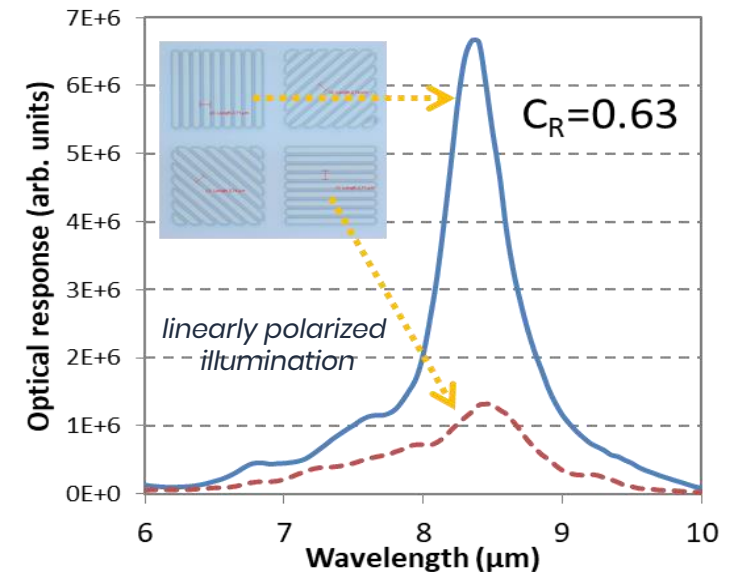
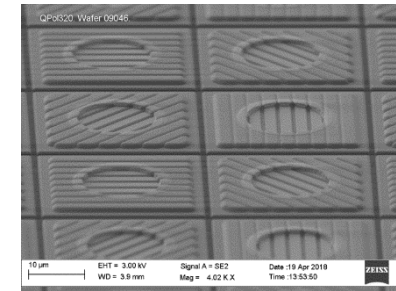
Garm LW POL

Polarimetric for emerging applications



Improved detection

Polarimetric 2x2 pixel QWIP structure



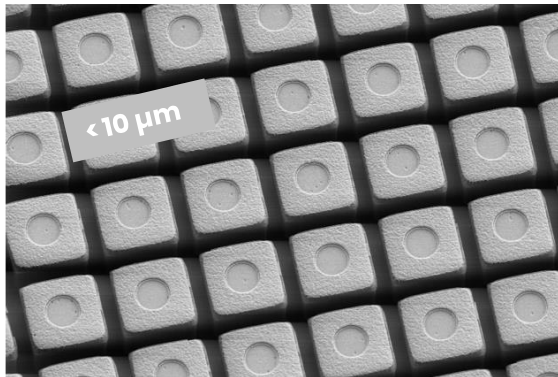
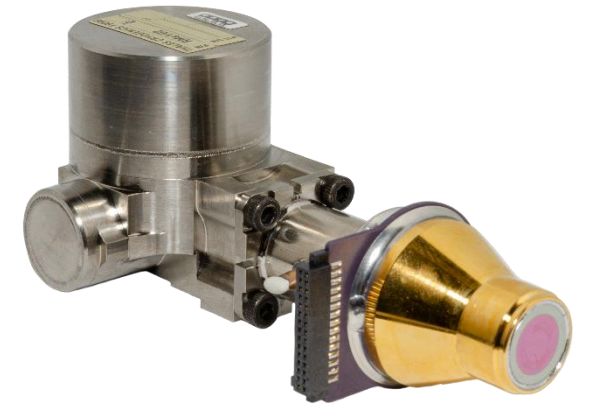
Oden MW - T2SL MWIR 640 @15um

The sole MWIR SWaP in Europe



Some features:

- **F/5.5**
- **NETD < 30 mK**
- **Weight = 230g**
- **Power = 3W**



Soon the HD version



