



SPHERE-F

LWIR UNCOOLED GIMBAL

- GLOBAL SHUTTER DAY 1600x1300 x36 Zoom
- UNCOOLED LWIR 12 μ m, 640x512, FIXED LENS
- LENS OPTION: 5.8 mm/25mm/35mm
- LRF up to 8KM NATO Target
- ETHERNET INTERFACE
- IP-67 NITROGEN PURGED MARINE GRADE CHASSIS



LWIR UNCOOLED GIMBAL

- Full HD Global Shutter 1600x1300, 60FPS, x36 Zoom 4,5mm-162mm sensor H-FOV 59,0° to 2,4° V-FOV 33,6° to 1,4°; Sapphire Window
- LWIR 640x512 Fixed Lens: 5.8 | 25 | 35mm
- LRF up to 2KM NATO Target
- Light Weight Rugged Aluminum structure
- Ex-Sight DESK Application, SDK Open Source C#
- IP-67, MIL.STD, with hermetic D38999 Stainless Steel connector
- Ethernet interface
- Operating temp -20°C to +80°C
- **Dimensions (LxWxH, mm)** 245x216x347
ø 185
- **Weight** 13 Kg

* Optional Configuration

SYSTEM OVERVIEW



LRF

LASER RANGE FINDER
Up to 2KM
NATO Target
SAPPHIRE WINDOW

LWIR SENSOR

UNCOOLED LWIR 12 μ m
640x512

LENS OPTION:

5.8 | 25 | 35mm

DAY ZOOM SENSOR

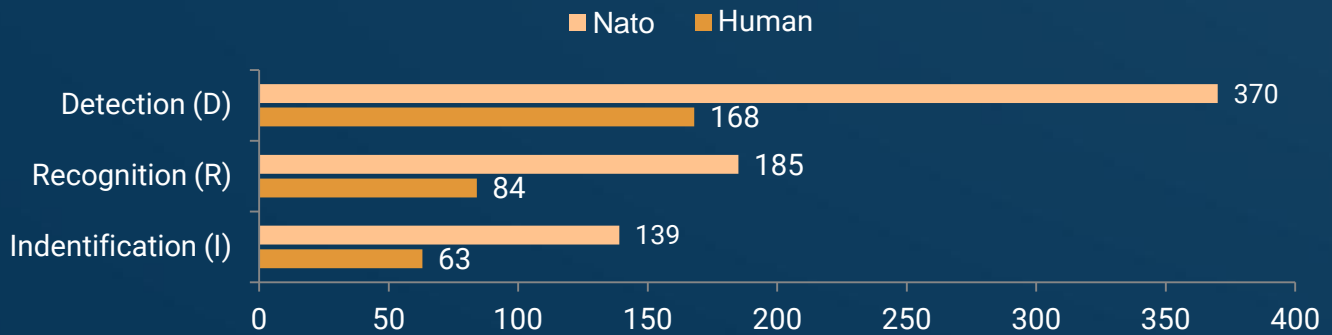
GLOBAL SHUTTER 60FPS
1600x1300
x36 ZOOM
4,5mm-162mm
SAPPHIRE WINDOW

SHOCK ABSORBERS

- EX-SIGHT DESK APPLICATION, SDK OPEN SOURCE C#
- LASER POINTER ON LRF CAMERA
- ETHERNET & ANALOG INTERFACE
- IP-67

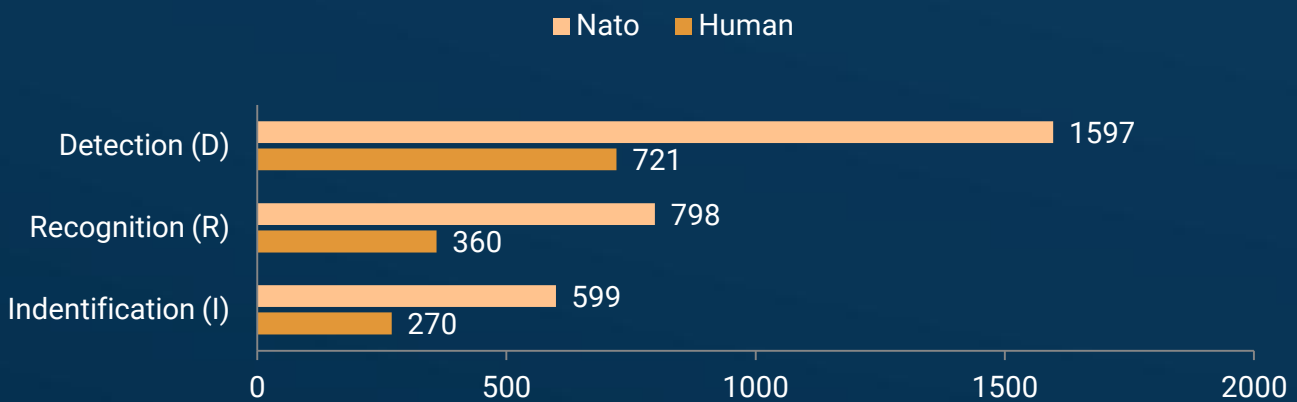
DRI LWIR (m)
640x512 LENS 5,8 mm

FOV 65,24° x 54,22°



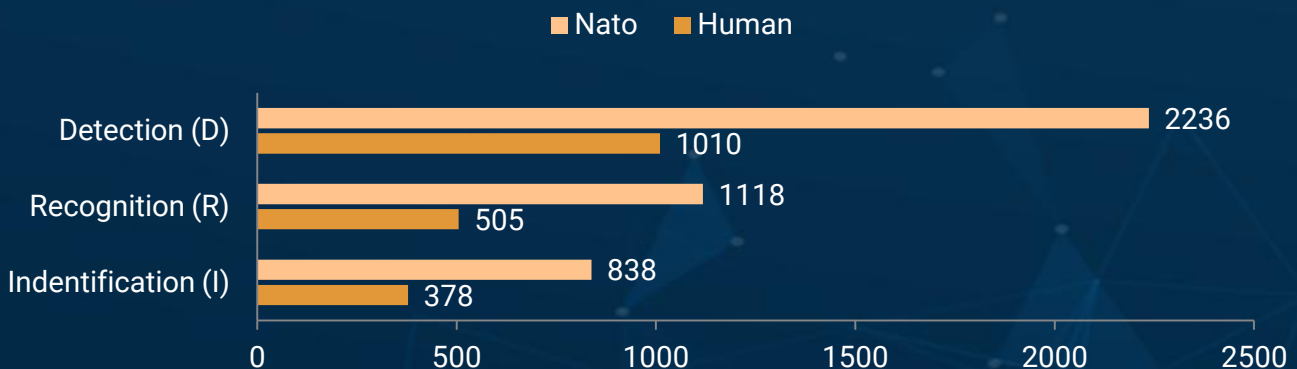
DRI LWIR (m)
640x512 LENS 25 mm

FOV 17,46° x 14,01°

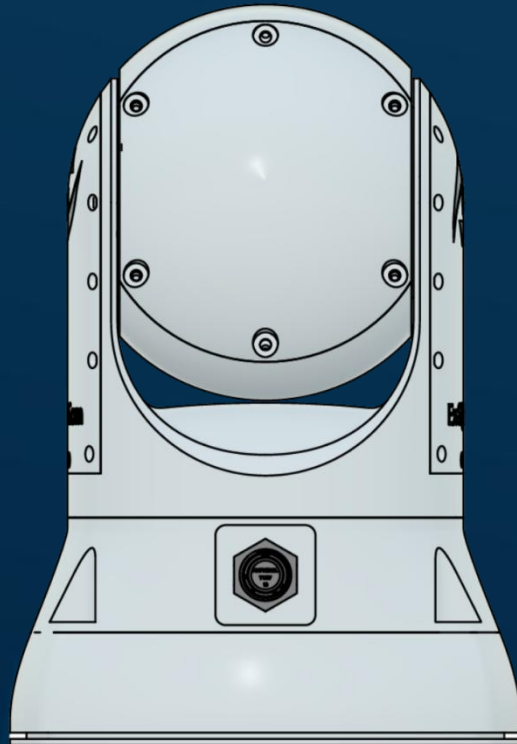
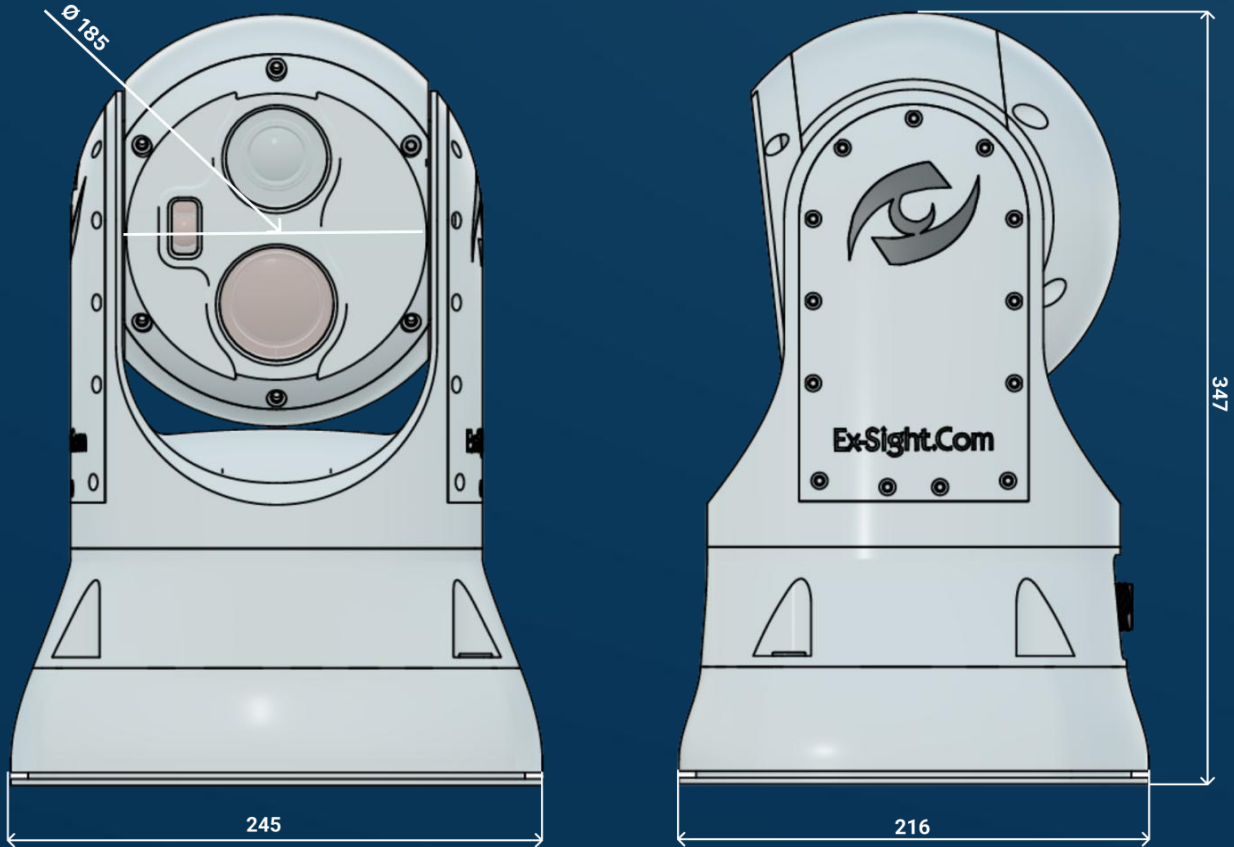


DRI LWIR (m)
640x512 LENS 35 mm

FOV 12,52° x 10,03°



DIMENSIONS (LxWxH, mm) 245x216x347 \varnothing 185



FUSIONF640

CABLE PIN LAYOUT D38999/26KC35SN

Stainless Steel Hermetic Connector

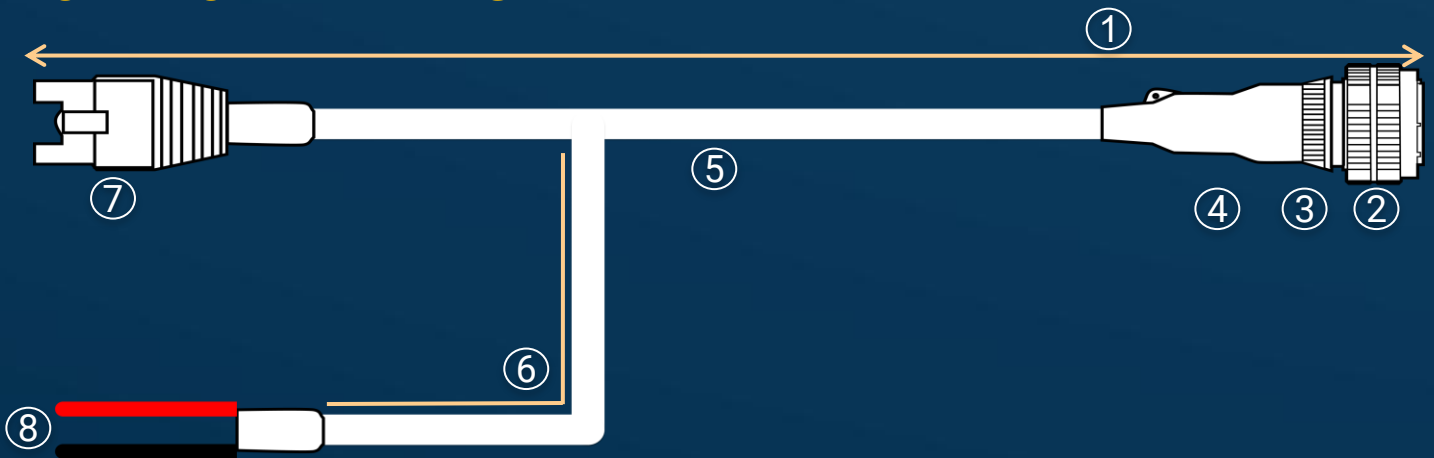
FUSION-F-CABLE-SC-[LEN1]

FUSION-F-CABLE is RQT1601875 Cable (6*20AWG + SPEC 55) with specified length.

The cable includes connector D38999/26KC35SN Mil. Std Stainless Steel that connects to the connector D38999/23YC35PN on the FUSION-F.

On the other side of the cable there is a connection to Power 9-36V (open black wire + open red wire) and RJ45 Giga Ethernet connection

MECHANICAL DRAWING



CABLE PART NUMBERING INDEX

#	P/N	DESCRIPTION
1	[LEN1]	Total Cable length (meters)
2	D38999/26KD35SN	Mil. Std Stainless Steel connector (200°C, firewall capability, 500 hour salt spray resistance)
3	RQND-40S2-S-1307	Stainless Steel Backshell
4	202K132-25-0/202K132-25-0	Boot
5	Cable RQT1601875	6*20AWG + SPEC55 (RAYCHEM DR-25)
6	Cable RQT1601875	6*20AWG + SPEC55 (1m) (RAYCHEM DR-25)
7	RJ45 Ethernet	Main Ethernet connector
8	Power Wires	20AWG For 9V-36V input