

OZ2575

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The pro version of the powerful dual digital vision system with LRF for situational awareness

- 2048x1536@60fps Global Shutter x30 zoom Day Sensor
- 1280x1024/640x512 12μm High Resolution LWIR Detector 25-75mm Lens
- up to 8,000 m NATO target Laser Range Finder
- Ethernet Interface, ONVIF support, embedded switch
- Hermetic IP-6, Nitrogen Purged, Military Grade
- CNC Aluminum Chassis
- 9-36VDC Power Stabilizer

OZ SYSTEM SPECIFICATION

HD GLOBAL SHUTTER X30 DAY SENSOR

1/2.8" 2MP PROGRESSIVE SCAN GLOBAL SHUTTER
CMOS, 2048X1536@60FPS,
H.265/H264 COMPRESSION,
LENS F=4.5MM~162MM, OPTICAL ZOOM 30X,
F1.5 (WIDE)~F4.0 (TELE), ICR, PRIVACY MASK FUCTION,
HIGH LIGHT COMPENSATION, WDR/BLC/HLC/AGC/3D-
DNR, ZOOM SPEED APPROXIMATELY 3.5S (OPTICAL
LENS, WIDE TO TELE), COLOR:0.001 LUX @(F1.5,AGC ON);
B/W:0.0005LUX @(F1.5,AGC ON), SHUTTER 1/25S TO
1/100,000S, ANGLE OF VIEW (D, H, V) 59.0° ~ 2.4°
(WIDE~TELE), MOTION DETECTION / DEFOG
FUNCTION, SUPPORTS VISCA, ONVIF, PELCO
PROTOCOL, VIDEO OUT IP, SAPPHIRE WINDOW

UNCOOLED LWIR SENSOR

UNCOOLED LWIR PIXEL PITCH 12 μm		
RESOLUTION (PIXELS)	1280x1024	640x512
LENS 25-75 mm	FOV H*V (11,5°x9,3°~ 35,9°x28,5°)	FOV H*V (5,9°x4,7°~ 17,7°x14,1°)

SPECTRAL BAND 8-14 μm , FRAME RATE 50 FPS,
SENSITIVITY (NEDT) <50mK at F/1.0,
GERMANIUM WINDOW DLC+AR

CONNECTION INTERFACE

HERMETIC Type C:
D38999/23YE35PN, ETHERNET/RTSP/ONVIF
VIDEO & CONTROL



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PSU (POWER SUPPLY UNIT)

9-36VDC
Power Consumption in 12VDC = 8.8W

ENVIRONMENTAL

IP-67, NITROGEN PURGED, HERMETIC SEALED, ALUMINUM CHASSIS
(6061) STAINLESS STEEL SCREWS (N316)

8 KM LRF (LASER RANGE FINDER)

EYE SAFE CLASS 1, 8 KM NATO TARGET 30% REFLECTANCE 8KM
VISIBILITY, ACCURACY ≥98%, DIVERGENCE ANGLE
0.6MERD, ACCURACY ±1M, MINIMUM RANGE 15M, SAPPHIRE
WINDOW



OZ SYSTEM SPECIFICATION

PART NUMBERING

OZ2575-640-30GS-LRF

OZ2575-[RES]-[ZOOM-DS]-[LRF]

[RES] LWIR RESOLUTION

640 (LWIR 640 x 512)

1280 (LWIR 1280x1024)

[ZOOM-DS] ZOOM DAY SENSOR

**30GS x30 Optical Zoom Global
Shutter**

[LRF] LRF

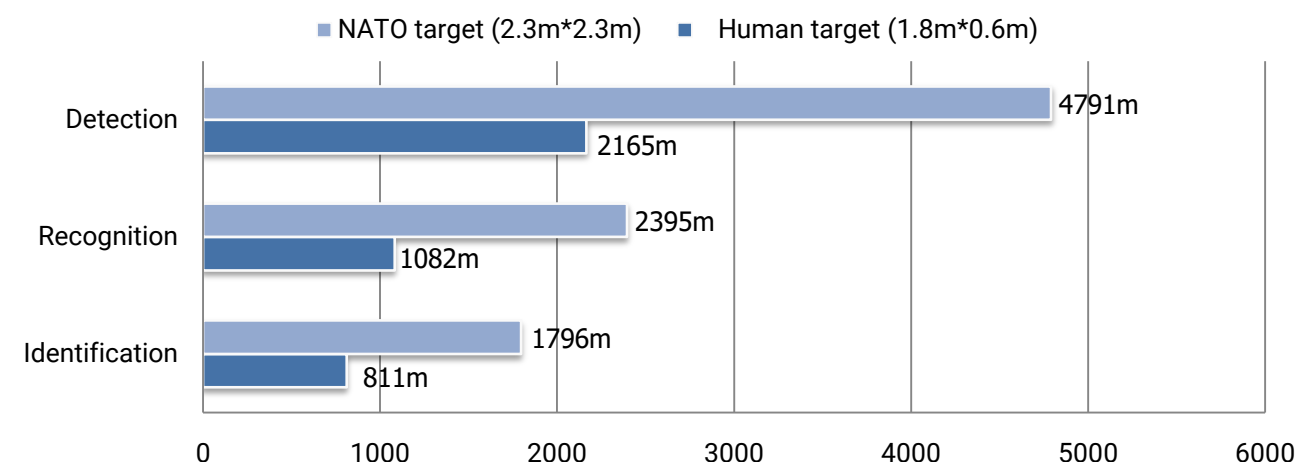
Blank - No LRF

LRF – 8 Km NATO target LRF



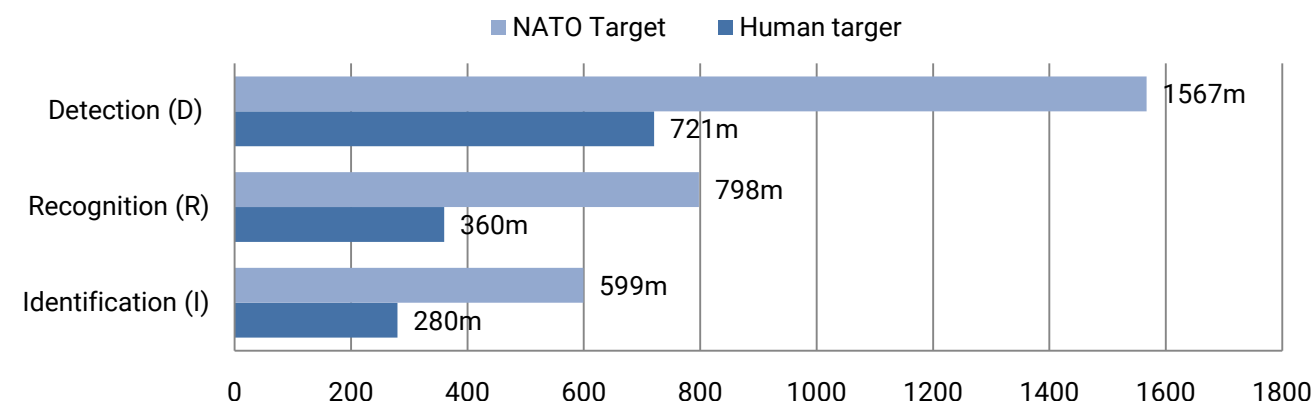
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OZ2575 DRI LWIR Lens 75 (m)



Calculation according to Johnson Criteria

OZ2575 DRI LWIR Lens 25 (m)



OZ SYSTEM OVERVIEW

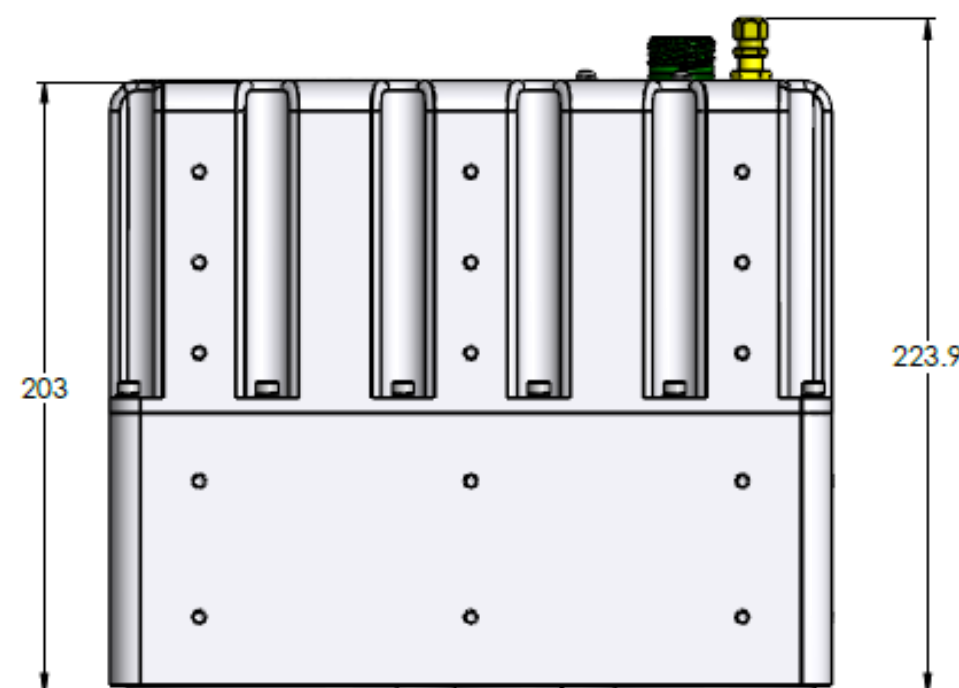
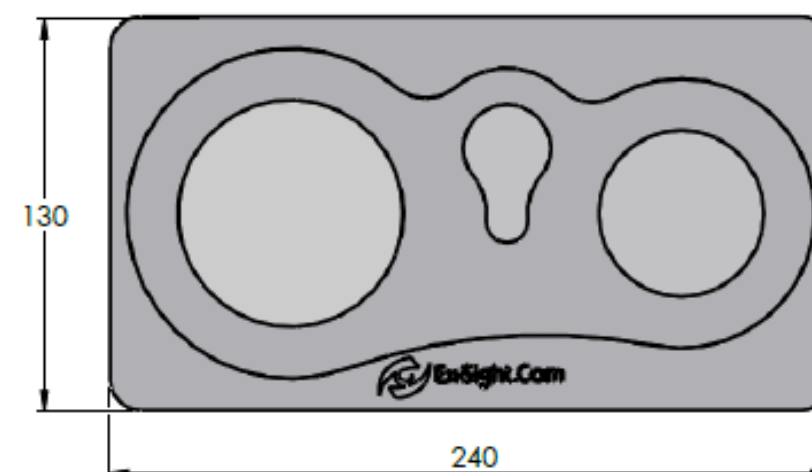
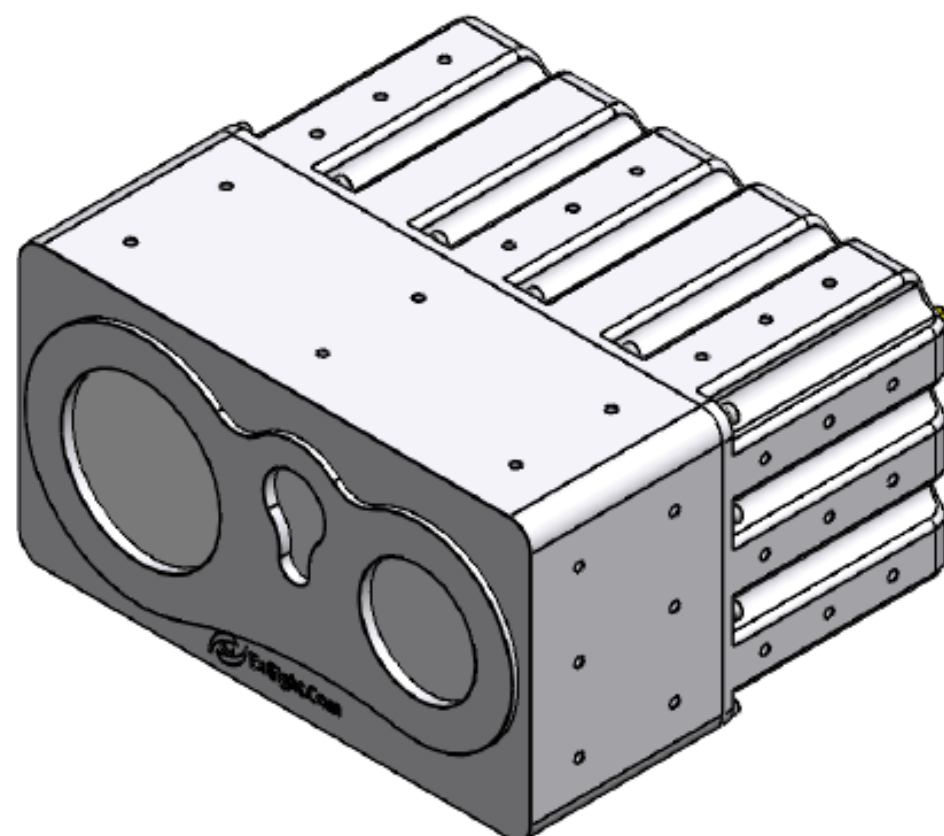
DIMENSIONS

LxWxH(mm) 198mm x 193.9mm x 111mm

WEIGHT 8000 gm



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PRODUCT PIN LAYOUT

PANEL Pin Layout
D38999/23YC35PN
Stainless Steel Hermetic Connector



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PART Numbering Index

PIN#	DESCRIPTION
1	NC
2	NC
3	(+9 TO +36VDC) INPUT POWER
4	GND INPUT POWER
5	(+9 TO +36VDC) INPUT POWER
6	GND INPUT POWER
7	NC
8	NC
9	ETHERNET2 (1) TX+
10	ETHERNET2 (2) TX-
11	ETHERNET2 (3) RX+
12	ETHERNET2 (6) RX-
13	NC
14	NC
15	ETHERNET1 (1) TX+
16	ETHERNET1 (2) TX-
17	ETHERNET1 (3) RX+
18	ETHERNET1 (6) RX-
19	DAY VIDEO CVBS SIGNAL
20	DAY VIDEO CVBS GND
21	THERMAL VIDEO CVBS SIGNAL
22	THERMAL VIDEO CVBS GND

#	P/N	DESCRIPTION
1	D38999/23YC35PN	Mil. Std Stainless Steel connector
2	MS51377-2 MS51607-1 MS20813-1	Nitrogen Valve Core Nitrogen MS Valves Nitrogen Fitting

