FUZION-Z-x45-FT

x45 Day Zoom, Fixed LWIR, Gyro* Pan Tilt

OVERVIEW

The system is designed for vision enhancement and surveillance during navigation in the dynamic marine environment. It integrates a FULL HD x45 Day Sensor and a 640 LWIR Sensor positioned on a Gyro Stabilized PAN TILT.

Gyro Stabilization stabilizes pointing of payloads and compensates for unwanted motion ensuring that the system is leveled horizontally regardless of the situations imposed to it.

Full HD x45
Day Sensor

LWIR Sensor
640 x 512 Pixels
Fixed 7.5mm to 60mm Lens

Gyro Stabilized
PAN TILT Platform

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Ex-Sight.Com
Tomorrow's Technology, Today

LWIR & DAY SENSORS

LWIR IMAGER

Uncooled VOX Microbolometer

RESOLUTION (PIXELS)
17µ 640 X 480

LENS TYPE
Athermalized (focus Free)

SPECTRAL BAND
7.5 – 13.5 µm

SENSITIVITY (NEDT)
<50 mK

VIDEO OUTPUT
RS-170 (30Hz) / CCIR (25Hz), 1.0V p-p, 75ohm

LWIR LENSE
7.5 to 60mm

DAY IMAGER

1/2.8" 2.13MP Sony Progressive Scanning CMOS

TOTAL / EFFECTIVE PIXELS
FULL HD/1080P (1920 x 1080)

FOCAL LENGTH
F5.9~265.5mm (x45 Optical)

VIDEO COMPRESSION
H.264 BP/MP/HP, H.265 MAIN PROFILE, MJPEG

HORIZONTAL RESOLUTION
>1000TVL (1920 x 1080P)

MIN. ILLUMINATION
0.02Lux B/W:0.01Lux @(F1.6, AGC ON)

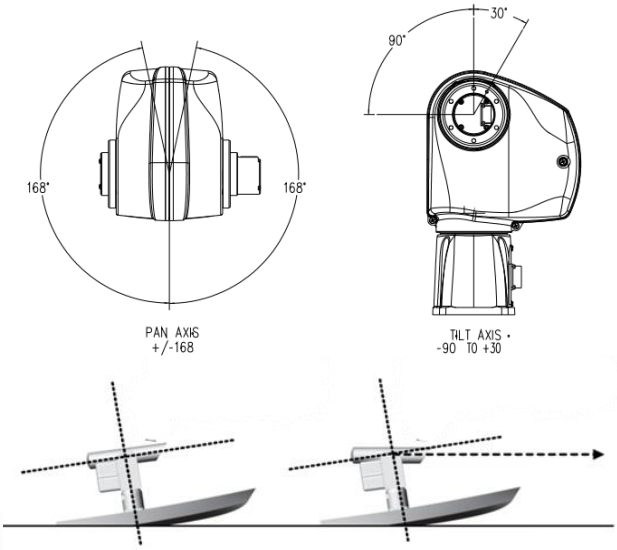
S / N RATIO
>52DB

COMMUNICATION INTERFACES

OPTION 1
IP (Payloads and PAN TILT)

OPTION 2
Analog (Payloads) ; IP or RS-485 (PAN TILT)

GYRO STABILIZED PAN TILT PLATFORM



MAX. PAYLOAD
5.4 kg top mount

PAN POSITION RESOLUTION
0.0075°

TILT POSITION RESOLUTION
0.0075° (with microstep)

MIN PAN SPEED
0.0075° / Sec.

MAX PAN SPEED
120° / Sec.

MIN TILT SPEED
0.0075 °/ Sec.

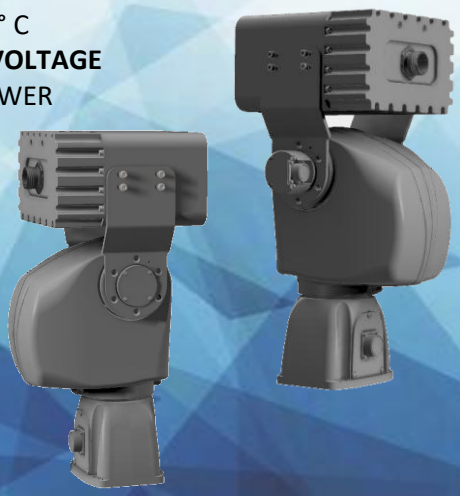
MAX TILT SPEED
120° / Sec

PAN RANGE
Nx360-continous optional

TILT RANGE
From +30° to -90 ° from level (120° range)

OPERATING TEMPERATURE
-30° C to +70 ° C

OPERATING VOLTAGE
12-30VDC POWER



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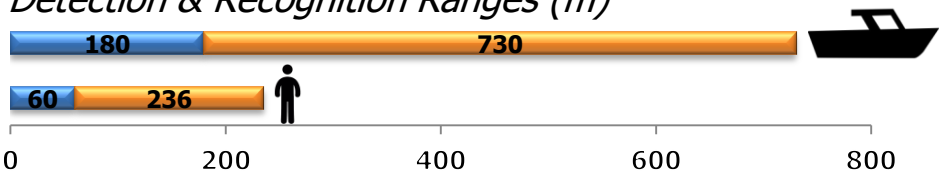
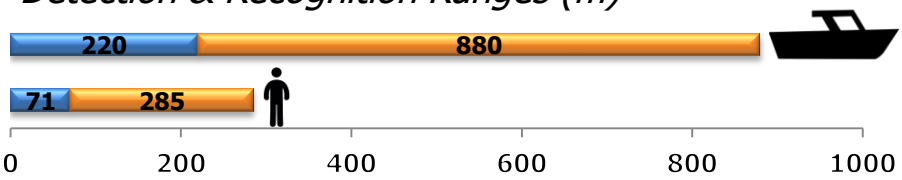
7.5mm Lens, 90° x 69 °

Detection & Recognition Ranges (m)



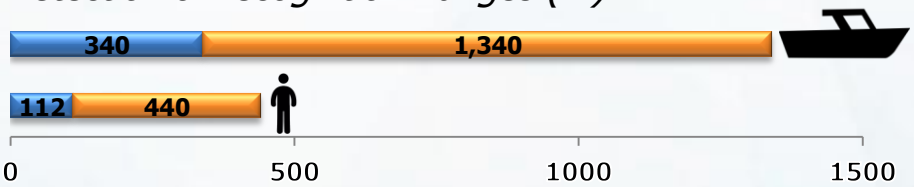
9mm Lens, 69° x 56°

Detection & Recognition Ranges (m)



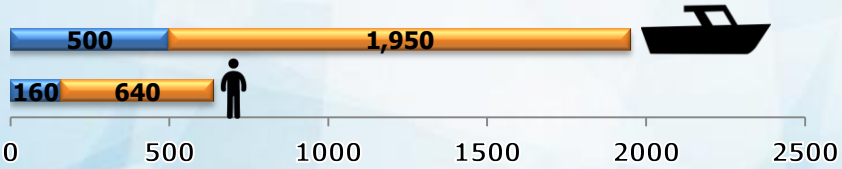
13mm Lens, 45° x 37°

Detection & Recognition Ranges (m)



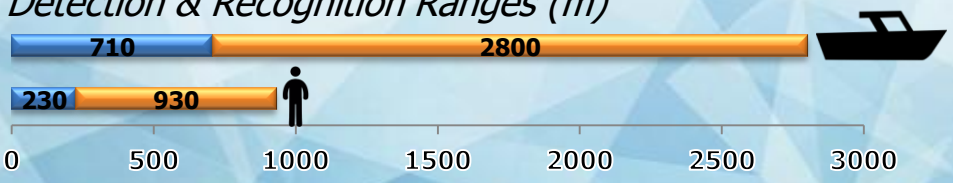
19mm Lens, 32° x 26°

Detection & Recognition Ranges (m)



25mm Lens, 25° x 20°

Detection & Recognition Ranges (m)



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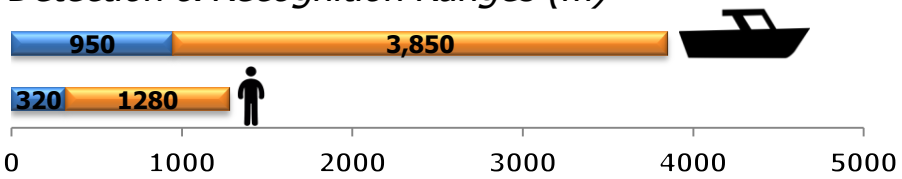
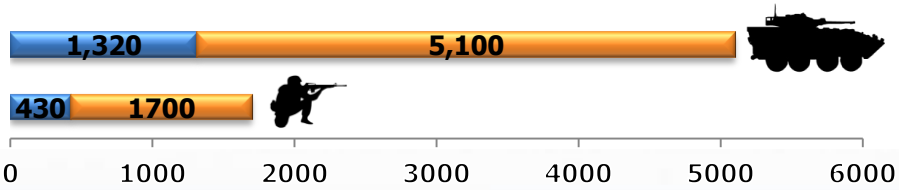
35mm Lens, 18° x 14°

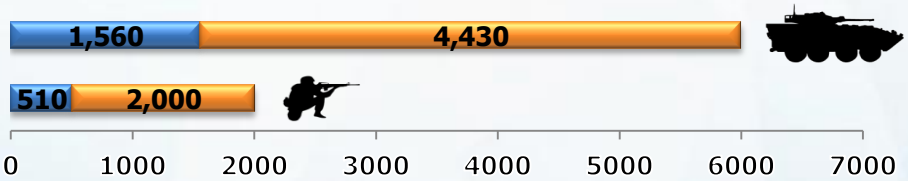
Detection & Recognition Ranges (m)



50mm Lens

Detection & Recognition Ranges (m)



60mm Lens

Detection & Recognition Ranges (m)