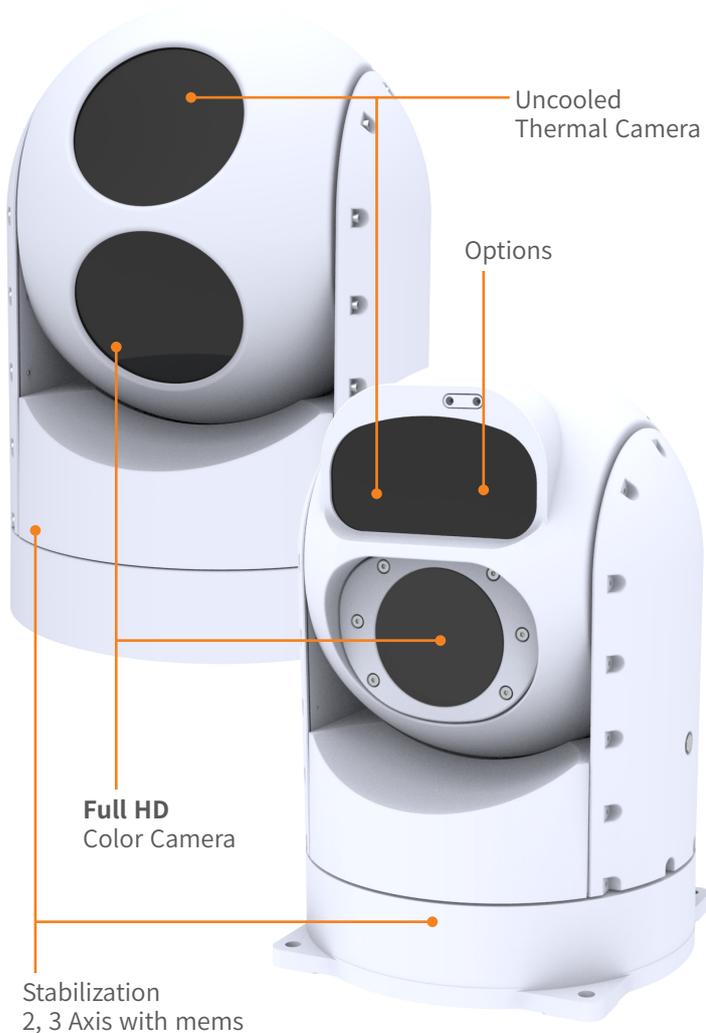


# TBX-15N *EO/IR Gyro Stabilized Gimbal Camera*



The TBX-15 series is a high-performance Pan/Tilt thermal imaging camera system specialized for short and medium distances.

The thermal imaging 640x480 sensor helps identify targets even when it is dark or difficult to secure visibility due to snow, rain, fog, etc.

Full HD color cameras provide maximum visibility with options such as spotlights and LRF.

## FEATURE

### *Uncooled Thermal Camera*

- Detector type : Uncooled Micro Bolometer, 640x480
- Pixel Pitch : 12 $\mu$ m

### *Day/Night Color Camera*

- 2 MP High Resolution Camera 1920x1080

### *Mechanism*

- Stabilization 2, 3 Axis with mems
- BIT (Built In Test)

### *Various Options*

- GPS
- Controller
- Laser Range Finder (LRF)
- Auto Tracker
- Spotlight

\* Product appearance varies depending on options.

## APPLICATION



[ USV ]



[ Navy ]



[ Vessel ]

# SPECIFICATON

## Uncooled Thermal Camera

Sensor Type	Uncooled Micro Bolometer, 640x480
Pixel Pitch	12μm
Wave Length	8μm ~ 14μm (LWIR)
Output Resolution	1280x720p
Lens Focal Length (HFOV)	19mm (22.8°), 35mm (12.5 x V9.4), 26-105mm (17.46°~4.19°)

## Day/Night Color Camera

Sensor	1/1.9" Sony Exmor CMOS Sensor
Output Resolution	1920 x 1080 / 30p
Zoom	36x F=1.5 ~ 4.8, f=6 ~ 216mm (Optical x36, Digital x32 Zoom)
DIS	ON / OFF (with Gyro Sensor)
Min. Illumination	Color(1/30s) : 0.15 lux, BW(1/30s) : 0.01lux, Color DSS(1/7.5s) : 0.0375 lux, BW DSS(1/7.5s) : 0.002 lux

## Gimbal

Dimensions	Ø250mm x 370mm
Weight	≤10Kg
Pan/Tilt Range	Pan : 360° continuous, Tilt : -20° ~ +60°
Max Speed	Pan : 30°/s, Tilt : 15°/s
Stabilization	2, 3 Axis with mems
Power Requirement	DC24V (18V ~ 36V)
Operating/Storage Temp.	-32°C ~ +55°C / -45°C ~ +65°C
Environmental Rating	IPX6

## Software

Operation SW	UI SW(EXE files) installed in PC
OS	Windows 10 Pro (64bit)
CPU	Intel Core i5+
RAM	8GB+
SSD / HDD	100GB+

## LRF (Options)

Laser safety class	Eye Safe Class 1
Detection Range	5, 10 km NATO Target
Measurement rates	0.2, 1, 4, 10, 15, 200 Hz

## Spotlight (Options)

Spotlight	≥580 Lumens LED
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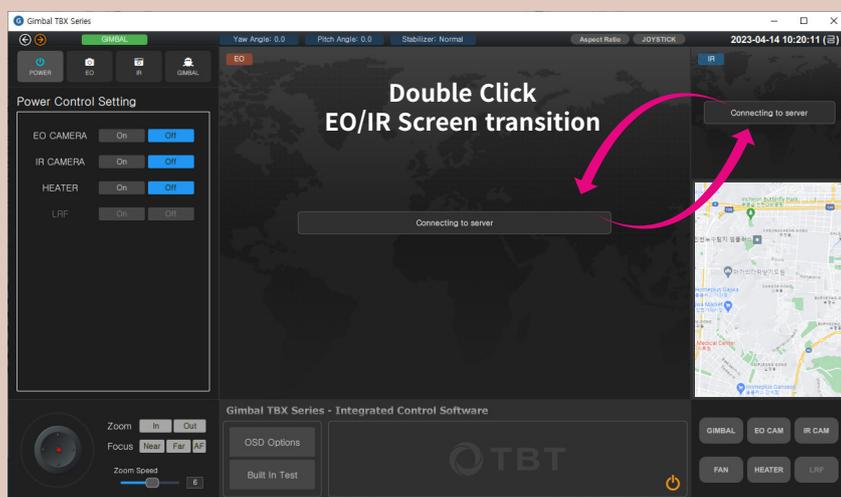
## Joystick (Options)

PTZ Control	Joystick (3 Axis Twist zoom)
Interface	USB 2.0, DirectX
Power	5V DC, 32mA (USB)
Operating Temp.	-25°C ~ 70°C

## Auto Tracking (Options)

Auto Video Tracking	Yes
Network Streaming	Adjustable Compression Rate

## Self-Developed Software Gimbal TBX



### Intuitive Visibility

- Intuitive user interface minimizes operational complexity for operators
- Provides access to a variety of information

### Various Controls

- Easily control key functions of color/thermal imaging cameras and gimbals
- Easy Pan/Tilt Control with Virtual Joystick
- USB joystick available
- Easy control with keyboard shortcuts

### Flexible scalability

- Being compatible with your system to meet changing needs

### Ease of maintenance

- Check the condition of the equipment with the BIT (Bit In Test) function
- Support immediate response with a variety of maintenance features



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