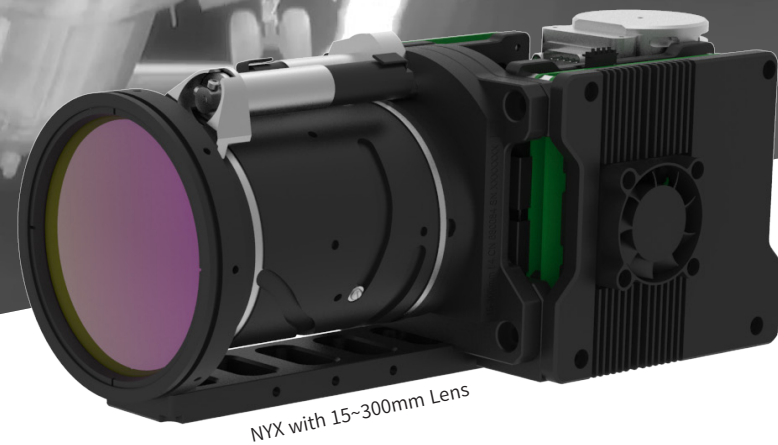


# NYX Series

Megapixel Cooled Thermal Imaging Camera Module

HD  
1280x1024



NYX with 15~300mm Lens

## Fully new designed thermal camera platform!

NyX is fully new designed thermal camera platform to deliver unmatched performance with cutting edge technology.  
NyX can provide always good thermal image even dark and bright area without user adjustment.  
You can get experience improvement of situation awareness with NyX technology.

## NyX technology

- DDE (Digital Detail Enhancement)  
Enhancement of detail of object in thermal imagery.
- LAE (Local Area Enhancement)  
Enhancement of image contrast for very dark and bright area with local processing.



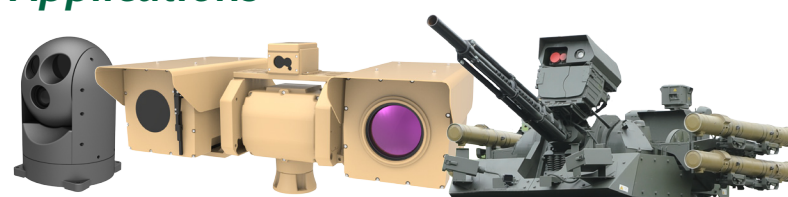
[ LAE OFF ]

[ LAE ON ]

## FEATURES

- Cooled InSb FPA 10μm (1280 x 1024)
- NETD : <30mk(F4.0) typical (without lens)
- Continuous ZOOM LENS  
15~300mm, 33~420mm,  
60~690mm, 72~900mm, 100~1200mm
- Continuous Digital Zoom (8x)
- Advanced image processing
  - Auto Gain Control (AGC)
  - Histogram Equalization (HEQ)
  - Local Area Enhancement (LAE)
  - Digital Detail Enhancement (DDE)
  - Denoise Reduction (DNR)
  - Sharpness
- Cooler - MTTF 12,000 hours(F4.0)

## Applications



[ Gimbal ]

[ Multi Sensor ]

[ RCWS ]

# TSM-1M Series

UnCooled Thermal Imaging Camera Module



TSM-1M with 25~125mm Lens

## 24 / 7, 365 days better secured!

The IR thermal imaging camera has good advantages to monitor the main facilities on the nighttime and bad weathers such as fog, sea smog, snow, rain etc.. And, it is easy to detect and prevent accidents or intrusions for the main facilities.

## Prevention is the best!

With the Thermography Management System, thermal imaging system software, temperature changes can be measured and recorded in real time. This not only analyzes the aging of facilities in various fields such as steel / chemical / semiconductor / power plant, it also prevents fire with quick response.

## FEATURES

- Detector type : Uncooled Microbolometer
- Pixel Pitch : 17μm
- NETD : ≤50mK @F1.0
- Continuous Digital Zoom (4x)
- DIS (Digital Image Stabilization) Support
- Various Continues Zoom Lens Option
- Advanced image processing
  - Auto Gain Control (AGC)
  - Multi contrast Image Detail Enhancement (MIDE)
  - Image Definition Enhancement (Sharpness)



10, Seounsandan-ro 4-gil, Gyeong-gu, Incheon, 21072 Korea  
TEL +82. 32. 552. 1941~3 FAX +82. 32. 552. 1944 E-MAIL sales@tbtsys.com Homepage www.tbtsys.com  
Design and specifications are subject to change without notice. 2022 TBT printed in KOREA



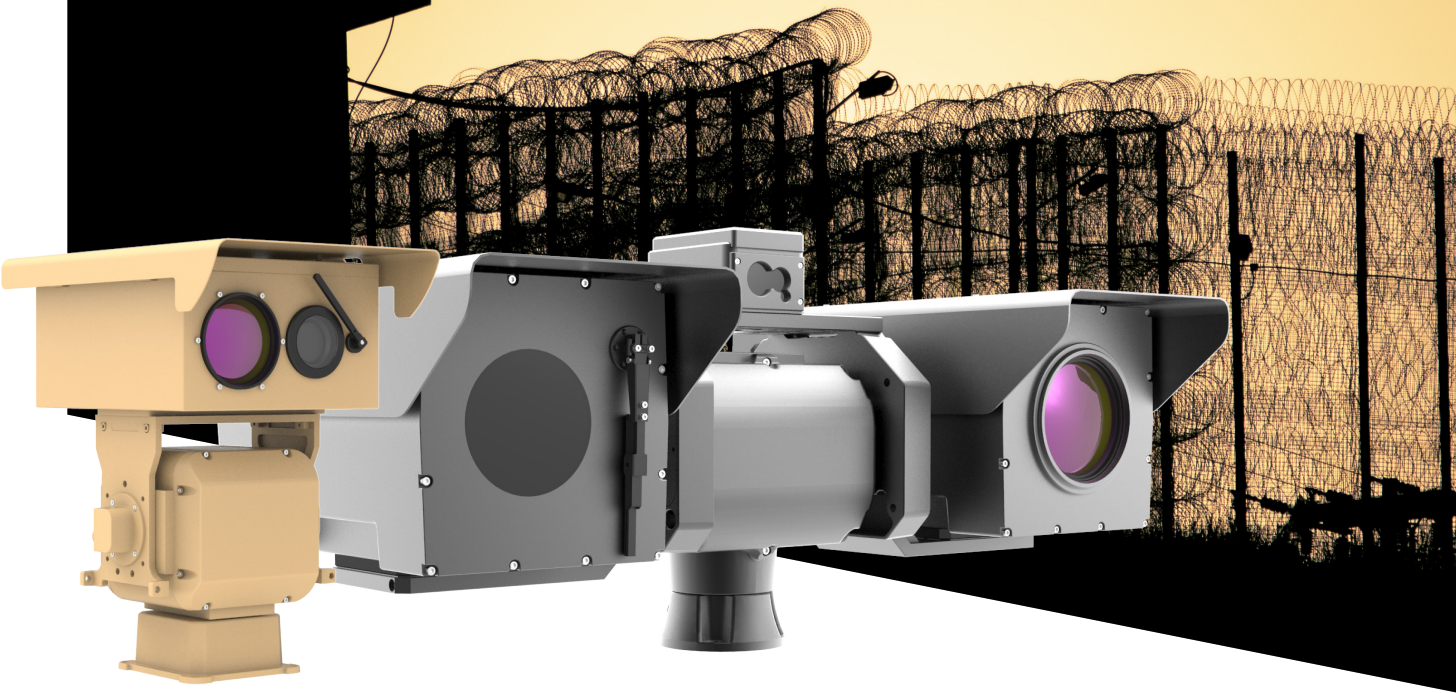
Surveillance and Reconnaissance Platform  
**THERMAL IMAGING SOLUTION**



[ Boarder Surveillance ]

# TMS Series

## Long Range Surveillance and Security system



### State of the art technology for long range surveillance Pan/Tilt system!

High-precision mechanism guarantees stable operation through minimum speed of 0.01°/s and Zero Backlash. Excellent thermal image resolution and improved thermal image processing ensures a clear view in various environments. Built-in digital image stabilizer function (EO/IR) allows you to effectively correct shake. Customizing according to user's needs with wide compatibility and various prepared sensors. Preventing condensation, moisture, and corrosion through nitrogen filling. (Camera Part) Precision Optical Boresight. (EO/IR/LRF) Easy replacement and maintenance by uniting each sensor that is easy to disassemble and assemble.

#### FEATURES

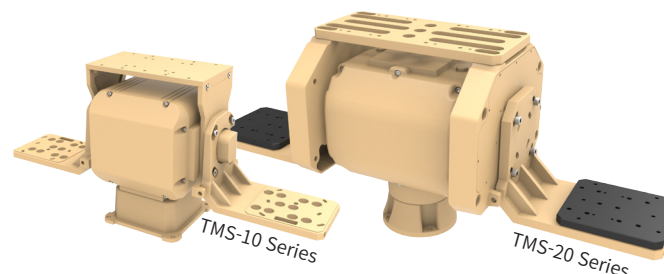
- **Electro-Optical/Infrared (EO/IR) Dual Band Camera**
- **Ensure stability through Military Delivery**
- Day & Night sensor housing, PTZ(3 species)
- Various Option
  - GPS / Laser Range Finder(LRF) / DMC / Control Software / Joystick
- MIL-STD-810G compliant solid durability
- As a structure that can withstand the weight of up to 25kg x 2
- IP66 grade strong waterproof/dustproof capability



[ Coastal Guard ]



[ Airport Surveillance ]



#### FEATURES

- Gyro Motion Stabilization 2 Axis / 3 Axis / 4 Axis
- Various Option
  - GPS & DMC / Laser Range Finder(LRF) / Laser Pointer / Auto Detection & Auto Tracking System / Control Software
- BIT (Built In Test)
- Ultra-Low light full HD color camera for UAV applications
- Thermal imaging camera option
- FOG / MEMS gyro stabilization
- Image stabilization software



[ Airborne ]



[ Armoured Vehicle ]

### Steady Reconnaissance with gyro stabilization technology!

Gimbal of TBX Series employs precise MEMS Gyro or Fiber Optic Gyro and a motor driver that responds accurately and quickly, enabling more accurate and stable response to disturbance.

It shows optimal performance in object identification and target tracking.

The variously prepared product groups can freely change and adopt EO/IR(Thermal)/LRF/GPS/DMC according to the user's needs with wide compatibility, and can be applied to various systems in Land, Sea, and Air.



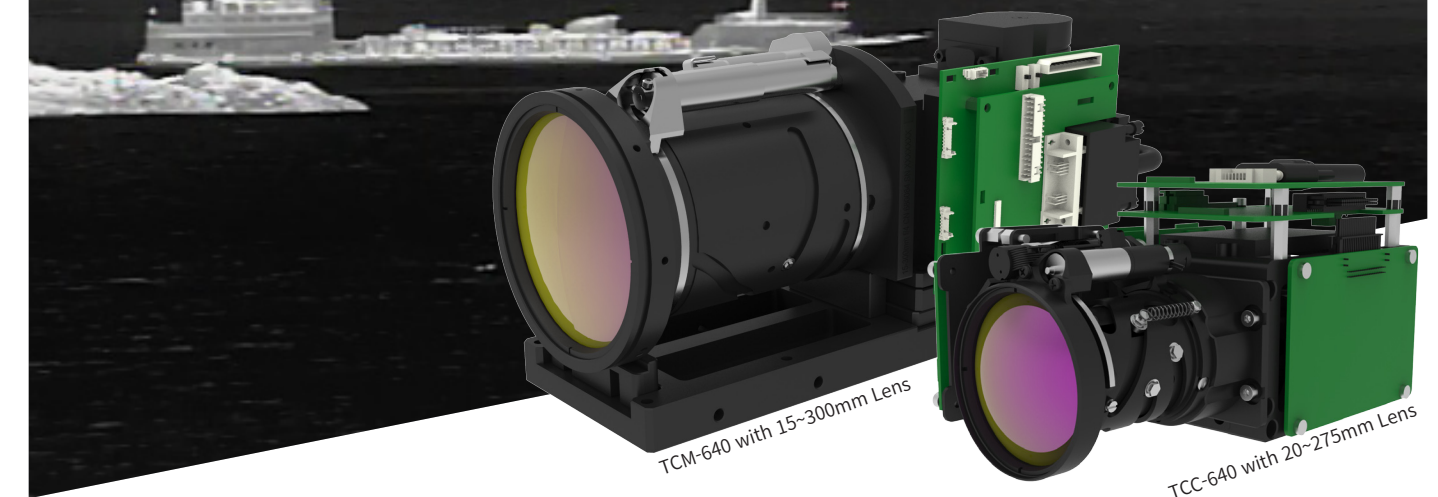
# TBX Series

## EO/IR Gyro Stabilization Gimbal

[ Navy ]

# TCM/TCC Series

## Cooled Thermal Imaging Camera Module



### Safe and secure surveillance!

Made In Korea product, the repair, maintenance period such as replacement of the cooler is significantly shorter than other foreign products.

By applying various zoom lenses sizes, it is possible to monitor from short to long range surveillance application and shows optimized performance in various environments such as land, sea, and air.

Excellent image resolution and improved thermal image processing ensure a clear high quality image.

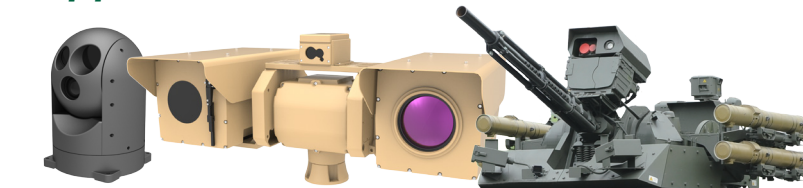
### Advanced image processing

- MIDE (Multi Contrast Image Detail Enhancement)  
The unique MIDE technology emphasizes the edge of the image and increases the contrast ratio to increase the subject's detecting distance than the basic image.
- DIS (Digital Image Stabilizer)  
It works to compensate the vibration of the camera from unstable move in operation to produce stable image display.

#### FEATURES

- Cooled InSb FPA 15μm (640 x 512)
- NETD : <17mk(F4.0) / <20mk(F5.5) typical
- Continuous ZOOM LENS
  - F4.0
    - 15~300mm, 21~420mm, 30~600mm, 35~690mm, 45~900mm, 60~1200mm
  - F5.5
    - 20~275mm, 30~385mm, 50~700mm, 80~1200mm
- Continuous Digital Zoom (8x)
- Advanced image processing
  - Multi Contrast Image Detail Enhancement (MIDE)
  - Image Definition Enhancement (Sharpness)
  - Digital Image Stabilizer (DIS)
- Cooler
  - MTTF 12,000hours(F4.0) / 10,000hours(F5.5)

### Applications



[ Gimbal ]

[ Multi Sensor ]

[ RCWS ]