

# TORNADO-ER

Advanced IR Scanning System



The TORNADO-ER is an advanced IR system designed to automatically detect and acquire land and maritime targets.

The TORNADO-ER System provides a unique solution by using highly sensitive sensors and advanced Real-time video algorithms.

CONTROP's TORNADO-ER System may be integrated with complimentary components in order to offer a full solution for defense and homeland security (HLS) operational requirements.

## Applications

Coastal Surveillance  
Terrain Dominance  
Border Surveillance  
Force Protection



### Technical info:

KG	75kg
FL	100, 400mm
KM	up to 12km

FL Thermal Imaging Focal Length

KM Thermal Imaging detection range to NATO target

**CONTROP**  
Turning Vision Into Reality

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## Features

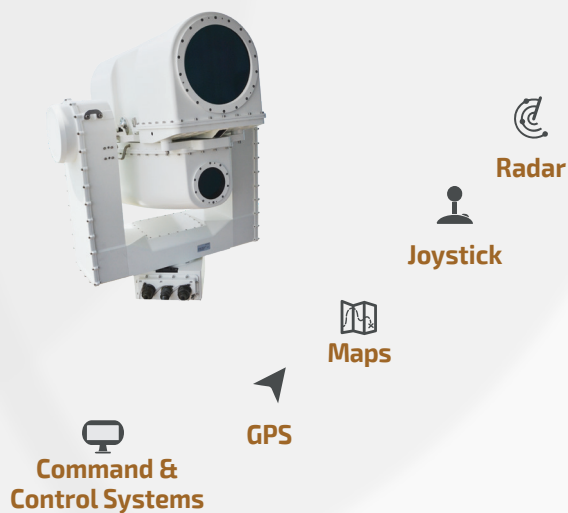
Automatic Detection  
Panoramic View  
Target Acquisition  
Advanced Image Processing

## Optional

Control & Display Unit (CDU)  
Digital Video Recorder (DVR)  
AI Capabilities

## Image Processing

Local AGC  
Video Enhancement  
Automatic Video Tracker  
Automatic Scanning



### Electro-Mechanical

Type:	2 Gyro-stabilized (2 Axes)
Field of Regard:	Azimuth: n x 360° (continuous) Elevation: +20° to -20°

### Thermal Imaging (TI) Sensor 400mm

Spectral Range:	3.0 - 5.0 $\mu$ m
Detector:	FPA 640x512 XBN
Lens:	400 mm
Field of View:	1.3°

### Thermal Imaging (TI) Sensor 100mm

Spectral Range:	3 - 5 $\mu$ m
Detector:	FPA 640x512 XBN
Lens:	100 mm
Field of View:	5.5°

### Physical Characteristics

TI 400mm Weight:	20kg
TI 100mm Weight:	13kg
Gimbal Weight:	42kg

### Electrical Interface

Voltage:	220 VAC or 28VDC
Power Consumption:	500 Watt (nominal)
Video Outputs:	GigE

### Environmental Conditions

Temperature:	-30° to 55° C
Humidity:	Up to 95% (non-condensing)

CONTROP reserves the right to change specifications without prior notice