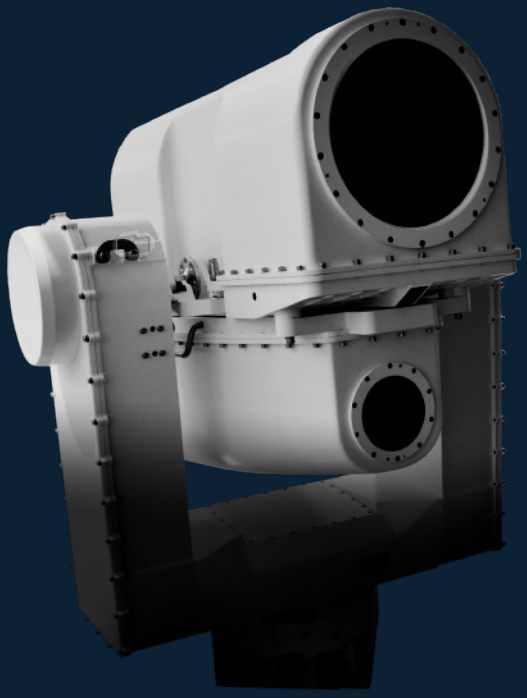
CONTROP

# TORNADO-ER

## Advanced IR Scanning System



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

Tornado-ER is a passive, 360° panoramic scanning sensor, providing long-range detection in electronic warfare environments. It serves as a redundant or complementary system, creating a full scanning area supported by embedded artificial intelligence to assist the operator through real-time signal analysis and threat assessment.

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.

# TORNADO-ER

Advanced IR Scanning System

## Electro-Mechanical

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

## Thermal Imaging (TI) Sensor 400mm

| | |
|---|---|
| **Spectral Range:** | 3.0 - 5.0 µm |
| **Detector:** | FPA 640x512 XBN |
| **Lens:** | 400 mm |
| **Field of View:** | 1.3° |

## Thermal Imaging (TI) Sensor 100mm

| | |
|---|---|
| **Spectral Range:** | 3 - 5 µm |
| **Detector:** | FPA 6a40x512 XBN |
| **Lens:** | 100 mm |
| **Field of View:** | 5.5° |

## Physical Characteristics

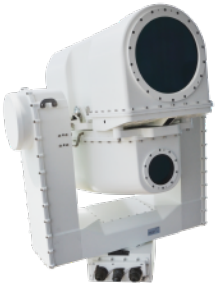
| | |
|---|---|
| **TI 400mm Weight:** | 20kg |
| **TI 100mm Weight:** | 13kg |
| **Gimbal Weight:** | 42kg |

## 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) |



75 kg

Radar

GPS

Control Unit

Command & Control Systems

## 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