

## AresX™ Infrared Thermal Imaging

### Shipborne Photoelectric Remote Tracking System



*AresX™ heavy-duty shipborne system using advanced ball-type dual-frame, two-axis gyro stability and computer control system. While maintaining high-precision image, it ensures that the full enclosure and wind resistance of the optoelectronic devices. It suits the harsh environment at sea for all-weather target monitoring and search.*

*The photoelectric turntable is pretty large and can accommodate telephoto high-definition visible light camera, infrared camera and the corresponding laser devices. It is mounted outside the ship cabins. At day time it uses the high-performance colour CCD camera to observe, search and monitor the target; at night or in case of rain and fog weather, it uses the infrared thermal imager to search and monitor the target.*

#### SPECIFICATION

| MODEL         | CT-S5                                 |                             |
|---------------|---------------------------------------|-----------------------------|
| Detector      | Detector Type                         | Uncooled focal plane array  |
|               | Resolution                            | 640 * 480                   |
|               | NETD                                  | ≤ 55mk                      |
|               | Wavelength Band                       | 8 - 14 μm                   |
| Lens          | Focal Length                          | 100mm                       |
|               | F#                                    | 1.0                         |
|               | Field Angle                           | 6.2° * 5°                   |
| Visible Light | Resolution                            | 750                         |
|               | Pixel Size                            | 1/4"                        |
|               | Horizontal View Angle                 | 55.8° - 2.1°                |
|               | SNR                                   | > 50dB                      |
|               | Minimum Illumination                  | 0.25lux                     |
|               | Focal Length of Lens                  | 3.5-98mm continuous zooming |
|               | Zooming Type                          | Power-driven                |
| Cradle Head   | Maximum Speed                         | 60°/s                       |
|               | Up & Down Rotation                    | 0° - 90°                    |
|               | Maximum Acceleration                  | 100°/S <sup>2</sup>         |
|               | Angular Velocity Measurement Accuracy | ≤ 0.2mrad                   |
|               | Gyro Stability Accuracy               | ≤ 0.1 mrad (1σ)             |

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## Shipborne Photoelectric Remote Tracking System

| MODEL                           | CT-S5                        |                     |
|---------------------------------|------------------------------|---------------------|
| <b>Cradle head</b>              | Linear Scan Speed            | 0.5° - 30°/s        |
|                                 | Image-Stabilization Platform | Optional            |
| <b>Image &amp; Software</b>     | Video Tracking               | Gray level, related |
|                                 | Presetting Bit               | 128 bits            |
|                                 | Video Output                 | PAL                 |
| <b>Power Supply</b>             | Voltage                      | 18 - 32V            |
|                                 | Power Consumption            | ≤ 400W              |
| <b>Physical Characteristics</b> | Protection Class             | IP66                |
|                                 | Weight                       | ≤ 25kg              |
|                                 | Size                         | ∅ 320 × 490mm       |
|                                 | Operating Temperature        | -40°C - 60°C        |
| <b>Operating Distance</b>       | Observation Distance         | ≥ 15km (ships)      |