

Thermal Security Monitoring

General information about ADTC-7038SM Thermal Security Monitoring Systems:

ADTC-7038SM is designed for maritime surveillance, featuring dual-channel with high IR resolution thermal camera and CCD high-definition visible video camera, and able to adapt to the bad weather at sea.

Main Features:

- ✓ Multiple lenses are optional: 30~150mm, or 60mm/150mm
- ✓ 15W laser illuminator, with detector range of 2km
- ✓ Day-night type HD video CCD or star-level CCD is optional
- ✓ High-accuracy MEMS gyro to output stable images in stormy waves
- ✓ Radar tracking and returning reminding



Technical specification of the device:

Detector Data:

- Detector type:Uncooled FPA
- Detector material:aSi
- IR resolution:640×480
- Pixel pitch:17um
- Spectral range:8~14um
- Detector frequency:50Hz
- Video output:PAL/NTSC
- Sensitivity:60mk

Lens Data:

- Focal distance FOV: Human (1.8×0.5m) Ship (4×1.5m)
- 30~150mm: WFOV: 20°×15° NFOV: 4.2°×3° 3.8Km 9.8Km
- 60/150mm: WFOV: 10°×7.5° NFOV: 4.2°×3° 3.8Km 9.8Km
- Lens type: Motorized

Image Performance:

- Brightness & Contrast: Motor/Auto
- Polarity/LUT: White hot/Black hot
- E-zoom:2X,4X
- Correction: Auto timing correction

CCD Video Camera:

- Resolution:1920×1080
- CCD type:200M 1/1.8" CMOS star-level super/low-lux gun type digital camera
- Lens:15.6~500mm(32x)
- FOV:0.44~23.12° (wide angle-telescoping)
- Illuminance Color:Black &White
- Focus:Motorized
- Aperture:Auto
- WDR:Yes
- Fog-through:Yes

Laser Illuminator:

- Power consumption:15W
- Wave length:808nm
- Laser divergence angle:0.1~23°
- Laser distance:2Km



Pan & Tilt:

- Angle back function: PELCO-D
- Pan angle: 0~360°
- Tilt angle: -150°~90°
- Rotation angle speed of largest boresight: Pan \geq 60°/s Tilt \geq 60°/s
- Acceleration of largest angle: Pan \geq 100°/s² Tilt \geq 100°/s²
- Angle position accuracy of boresight: Pan < 1mrad(1 σ) Tilt < 1mrad(1 σ)
- Boresight stabilization accuracy: Pan < 0.02mrad (1 σ) Tilt < 0.02mrad(1 σ)

System Data:

- Display device: 19-inch, 1280×1024 resolution, interface (Time, Date, GPS, Target location)
- Control device: Remote joystick control
- Video output: 1 network RJ45
- Image storage: H. 264 standard compression
- Auto tracking: Support auto tracking
- Communication interface: RS422

Environmental Data:

- Operating temperature range: -30°C~60°C
- Storage temperature range: -40°C~70°C
- Encapsulation: IP66

Physical Data:

- Size: 574mm×408mm×408mm
- Weight: 55Kg

Interface:

- Power interface: DC 24V \pm 10%
- Power consumption: \leq 300W(w/ heating)

