

# TC900PTZ

## Gyro-stabilized EO/IR Camera System

**TC900PTZ** 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.

### Features

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High sensitivity cooled infrared,  
long-distance observation, clear image

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Infrared triple view, dual view or  
continuous zoom lens is optional

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HD fog penetrating telephoto lens, auto  
focus

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Laser ranging, laser lighting module are  
optional

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Radar tracking& returning reminding

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Target tracking function is optional

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Designed for the marine environment,  
excellent sealing

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### Applications

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Maritime surveillance

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Marine patrol

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Navy force

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## Technical Specifications

Item	TC900PTZ
<b>Infrared performance</b>	
Type	Medium wave cooled infrared
Material	MCT
IR resolution	640×512
Pixel pitch	15μm
Spectral range	3 ~ 5μm
NETD/Sensitivity	≤20mK
Image enhancement	DDE
Polarity/LUT mode	Black hot/White hot
Contrast/Brightness	Auto/Motor
<b>Lens Data</b>	
Focal distance	15-330mm
FOV	WFOV: 36°×29°
	NFOV:1.67°×1.33°
Focusing	Electric / Automatic
Recognition distance (ship)	6.5km
Recognition distance(human)	3.3km
<b>CCD Video Camera</b>	
Resolution	1920 x 1080
CCD type	2M 1/1.8" CMOS star-level super low-lux gun type digital camera
Lens	15.6mm~500mm(32X)
FOV	0.44°~23.12°(wide angle~telescoping)
Illuminance	Color: 0.002Lux@(F1.2, AGCON)
	B/W: 0.0002Lux@(F1.2, AGCON)
Focus	Motor
Aperture	Auto
WDR	Yes
Fog-through	Support
<b>Laser illumination(Optional)</b>	
Laser power	15W
Laser wavelength	808nm
Irradiation distance	2km
<b>Laser ranging(Optional)</b>	
Laser wavelength	1550nm
Ranging distance (2.3m x 2.3m ship)	8Km
Ranging accuracy	±3m
<b>Pan &amp; Tilt</b>	
Angle back function	PELCO-D
Pan angle	0°~360°
Tilt angle	-120°~90°
Max Rotation angle speed of	Pan≥90°/s, tilt≥90°/s
Max Acceleration of angle	Pan≥100°/s <sup>2</sup> , tilt≥100°/s <sup>2</sup>
Boresight stabilization accuracy	<0.1mrad(1σ)
<b>System Features</b>	
Display device	19-inch, 1280×1024 resolution, interface(include Time, Date, GPS, target position, etc.)
Control device	Remote joystick control
Video interface	RJ45, HD-SDI
Communication Interface	RS422
Auto tracking	Support
<b>Power System</b>	
Working voltage	DC: 24V±10%
Power consumption	≤50W Normal, ≤300W Peak

<b>Environmental Parameters</b>	
Operating temperature range	-30°C ~ +60°C
Storage temperature range	-40°C ~ +70°C
Encapsulation	IP66
<b>Physical Data</b>	
Size	574mm×408mm×408mm
Weight	55kg
<b>Packing</b>	
Standard	Thermal imaging camera, User manual, Warranty card, Packing box