TC300PTZ|TC700PTZ

Dual-Spectral Security Monitor System

TC300PTZ|**TC700PTZ** bring thermal and visible-light imaging together in one system that provide video and control over both IP and analog networks. With professional ship-mounted design and anti-shocking devices, they can be used in ships and vehicles with sharper thermal images that provide greater scene detail from long distance.

Features

Designed specifically for vehicle and

ship, with damping design

50Hz instant imaging, 3s start-up

IVE technology

Anti-shock, anti-corruption, IP67

Compact structure, integrated design

Applications

Surveillance monitoring

Vehicle and shipborne monitoring











Technical Specifications

Policy Type Name of the color o	Item		TC300PTZ		TC700PTZ			
Material	Detector Data							
Resolution	Туре	Uncooled FPA						
Pote pitch	Material							
Prequency Prepuency Pre	IR resolution		384×288			640×480		
NETUS Persistivity 1	Pixel pitch							
NETO/Sensitivity Set Office Name of Section Name of Secti	Spectral range							
Type All Factors (1) 01 % 8" (1) 10 % 8" (1) 10 % 8" (1) 10 mm All Factors (1) 10 % 8" (1) 10 mm All Factors (1) 10 % 8" (1) 10 mm All Factors (1) 10 % 8" (1) 10 mm All Factors (1) 1	Frequency	50Hz						
Type All # All * Al	NETD/Sensitivity	≤70mK ≤60mK						
FOV/Focal distance Focal distance Foc	Lens Data							
FOV/Focal distance	Туре			Atl	nermal			
Recognition distance(Vehicle) S00m 7.10mm 9.50mm 5.00mm 7.10mm 9.50mm 9.50mm 1.00mm 9.50mm 9.50mm 1.00mm 9.50mm 1.00mm 9.50mm 1.00mm	FOV/Focal distance	19.4°×17.4°	15°×11°	10°×8°	31°×24°	25°×18°	17.6°×13.2°	
Recognition distance(Human) 160m 220m 320m 160m 220m 320m 320m 160m 520m		/19mm	/25mm	/35mm	/19mm	/25mm	/35mm	
Fig. 10 Image Performance Correction Auto correction Image enhancement IVE image enhancement algorithm Frequency 50Hz Zoom 2X, 4X Polarity/LUT mode Black hot /white hot Startup time 3s Contrast/Brightness Auto/Manual CCD Video Camera Resolution 1920×1080 Sensor type 11/2.8° Progressive Scan Cmos Focal distance 4.7-94mm HFCV 61.4-2.9°(Wide-Narrow) Zoom 20X optical, 12X digital Minimum illumination 0.01Lux Day&Night 1CR cut filter with auto switch F 11.6-F4.4 Pan & Tilt Horizontal rapge 8 0°-360° Horizontal speed Keyboard 100°/5, Manual 0.5°-80°/5 Vertical range -15°-+90° Vertical speed Keyboard 100°/5, Manual 0.5°-80°/5 Automatic flip function 180° automatic flipping with continuous monitoring in the vertical direction Presets 256 presets, accuracy < 0.05° Cruise scan 6 strips, each can set 16 presets, preset time adjustable The pan & Tilt data through instructions, and can be queried through instructions, and can be queried through nemonitoring Mobile phone monitoring available(iPhone, Windows Mobile, BlackBerry, Symbian, Android) Interface	Recognition distance(Vehicle)	500m	710m	950m	500m	710m	950m	
Image Performance Correction Auto correction Image enhancement IVE image enhancement algorithm Frequency 50Hz Zoom 2X, 4X Polarity/LUT mode Black hot, White hot Startup time 3s Contrast/Rightness Auto/Manual COTY Video Camera Resolution 1920×1080 Sensor type 1/2.8" Progressive Scan Cmos Focal distance 4.7-94mm HFOV 61.4-2.9"(Vide-Narrow) Zoom 20X optical, 12X digital Minimum illumination 0.01Lux Day&Night TCR cut filter with auto switch F 1.6-F44 Pra & Tilt Horizontal range 0"-360" Horizontal range Keyboard 100"/S, Manual 0.5"-80"/S Vertical range Keyboard 100"/S, Manual 0.5"-80"/S Vertical speed Keyboard 100"/S, Manual 0.5"-80"/S Vertical speed Keyboard 100"/S, Manual 0.5"-80"/S Vertical range 256 presets, accuracy < 0.05"	Recognition distance(Human)	160m	220m	320m	160m	220m	320m	
Correction Auto correction Image enhancement IVE image enhancement algorithm Frequency 50Hz Zoom 2X, 4X Polarity/LUT mode Black hot /white hot Startup time 3s Contrast/Brightness Auto/Manual CCDV Video Camera Resolution 1920×1080 Sensor type 1/2.8" Progressive Scan Cmos Focal distance 4.7-94mm HFCV 61.4-2.9" (Wide-Narrow) Zoom 20X optical, 12X digital Minimum illumination 0.01Lux Day&Night 1CR cut filter with auto switch F 16-F4.4 Pan & Tilt Horizontal range 0"-360" Horizontal speed Keyboard 100"/S, Manual 0.5"~80"/S Vertical range 180" automatic flipping with continuous monitoring in the vertical direction Presets 256 presets, accuracy < 0.05" Cruise scan 6 6 strips, each can set 16 presets, preset time adjustable The pan & Tilt data The pan & tilt' s horizontal and pitch angle data can be obtained through instructions, and can be queried through the network or through RS485. Mobile phone monitoring Mobile phone monitoring available(Phone , Windows Mobile , BlackBerry , Symbian , Android) Interface	F	F 1.0						
Image enhancement IVE image enhancement algorithm Frequency 50Hz Zoom 2X, 4X Polarity/LUT mode Black hot /white hot Startup time 3s Contrast/Brightness Auto/Manual CCD Video Camera Resolution 1920×1080 Sensor type 11/2.8" Progressive Scan Cmos Focal distance 4.7-94mm HFOV 61.4-2-9"(Wide-Narrow) Zoom 20X optical, 12X digital Minimum illumination 0.01Lux Day&Night ICR cut filter with auto switch F 11.6-F4.4 Pan & Tilt Horizontal range 6.8-2.8" (Keyboard 100"/S, Manual 0.5"~80"/S Vertical range 7.5"~90" Vertical range 7.5"~90" Vertical speed 7.5"~90" Automatic flip function 180" automatic flipping with continuous monitoring in the vertical direction Presets 256 presets, accuracy < 0.05" Cruise scan 6 strips, each can set 16 presets, preset time adjustable The pan & Tilt data Mobile phone monitoring Mobile phone monitoring available(iPhone , Windows Mobile , BlackBerry , Symbian , Android) Interface	Image Performance							
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Zoom 2X, 4X Polarity/LUT mode Black hot /white hot Startup time 3s Contrast/Brightness Auto/Manual CCD Video Camera Resolution 1920×1080 Sensor type 1/2.8° Progressive Scan Cmos Focal distance 4.7-94mm HFOV 61.4-29° (Wide-Narrow) Zoom 20X optical, 12X digital Minimum illumination 0.01Lux Day&Night 1CR cut filter with auto switch F F1.6-F4.4 Pan & Tilt Horizontal range 0°~360° Horizontal speed Keyboard 100°/S, Manual 0.5°~80°/S Vertical range -15°~+90° Vertical speed Keyboard 100°/S, Manual 0.5°~80°/S Automatic flip function 180° automatic flipping with continuous monitoring in the vertical direction Presets 256 presets, accuracy < 0.05°	Image enhancement	IVE image enhancement algorithm						
Polarity/LUT mode Startup time 3s Contrast/Brightness Auto/Manual CCD Video Camera Resolution Sensor type 1/2.8" Progressive Scan Cmos Focal distance HFOV 61.4-2.9"(Wide-Narrow) Zom 20X optical, 12X digital Minimum illumination Day&Night ICR cut filter with auto switch F F 16-F4.4 Pan & Tilt Horizontal range HFOY Vertical speed Keyboard 100"/S, Manual 0.5" ~80"/S Vertical speed Keyboard 100"/S, Manual 0.5" ~80"/S Automatic flip function Presets Cruise scan 6 strips, each can set 16 presets, accuracy < 0.05° Cruise scan Mobile phone monitoring Mobile phone monitoring available(iPhone , Windows Mobile , BlackBerry , Symbian , Android) Interface Tensor Manual Scanson AutoManual Note (Place of through RS485) Mobile phone monitoring Mobile phone monitoring available(iPhone , Windows Mobile , BlackBerry , Symbian , Android) Interface Curise Scan Mobile phone monitoring available(iPhone , Windows Mobile , BlackBerry , Symbian , Android) Interface Curise Scan Mobile phone monitoring available(iPhone , Windows Mobile , BlackBerry , Symbian , Android) Interface Pan & Tilt data Mobile phone monitoring available(iPhone , Windows Mobile , BlackBerry , Symbian , Android) Interface	Frequency	50Hz						
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CCD Video Camera Resolution 1920×1080 Sensor type 11/2.8" Progressive Scan Cmos Focal distance 4.7-94mm HFOV 61.4-2.9"(Wide-Narrow) Zoom 20X optical, 12X digital Minimum illumination 0.01Lux Day&Night ICR cut filter with auto switch F F1.6-F4.4 Pan & Tilt Horizontal range 0"~360" Vertical range 10"~490" Vertical speed Keyboard 100"/S, Manual 0.5"~80"/S Vertical speed Keyboard 100"/S, Manual 0.5"~80"/S Automatic flip function 180" automatic flipping with continuous monitoring in the vertical direction Presets 256 presets, accuracy < 0.05" Cruise scan 6 strips, each can set 16 presets, preset time adjustable The pan & Tilt data Mobile phone monitoring available (Phone , Windows Mobile , BlackBerry , Symbian , Android) Interface Mobile phone monitoring Mobile phone monitoring available (Phone , Windows Mobile , BlackBerry , Symbian , Android) Interface	Polarity/LUT mode	Black hot /white hot						
Resolution 1920×1080 Sensor type 1/2.8" Progressive Scan Cmos Focal distance 4.7-94mm HFOV 61.4-2.9°(Wide-Narrow) Zoom 20X optical, 12X digital Minimum illumination 0.01Lux Day&Night ICR cut filter with auto switch F 1.6-F4.4 Pan & Tilt Horizontal range 0°~360° Horizontal speed Keyboard 100°/5, Manual 0.5°~80°/5 Vertical range 1.5°~+90° Vertical speed Keyboard 100°/5, Manual 0.5°~80°/5 Automatic flip function 180° automatic flipping with continuous monitoring in the vertical direction Presets 256 presets, accuracy < 0.05° Cruise scan 6 strips, each can set 16 presets, preset time adjustable The pan & tilt' s horizontal and pitch angle data can be obtained through instructions, and can be queried through the network or through RS485. Mobile phone monitoring Mobile phone monitoring available(iPhone , Windows Mobile , BlackBerry , Symbian , Android) Interface	Startup time	3s						
Resolution 1920×1080 Sensor type 1/2.8" Progressive Scan Cmos Focal distance 4.7-94mm HFOV 61.4-2.9"(Wide-Narrow) Zoom 20X optical, 12X digital Minimum illumination 0.01Lux Day&Night ICR cut filter with auto switch F F1.6-F4.4 Pan & Tilt Horizontal range 0°~360° Horizontal speed Keyboard 100"/S, Manual 0.5"~80"/S Vertical range Teyron Keyboard 100"/S, Manual 0.5"~80"/S Vertical speed Keyboard 100"/S, Manual 0.5"~80"/S Automatic flip function 180° automatic flipping with continuous monitoring in the vertical direction Presets 256 presets, accuracy < 0.05° Cruise scan 6 strips, each can set 16 presets, preset time adjustable Pan & Tilt data The pan & tilt' s horizontal and pitch angle data can be obtained through instructions, and can be queried through the network or through RS485. Mobile phone monitoring Mobile phone monitoring available(iPhone , Windows Mobile , BlackBerry , Symbian , Android)	Contrast/Brightness	Auto/Manual						
Sensor type 1/2.8" Progressive Scan Cmos Focal distance 4.7-94mm HFOV 61.4-2.9°(Wide-Narrow) Zoom 20X optical, 12X digital Minimum illumination 0.01Lux Day&Night ICR cut filter with auto switch F F1.6-F4.4 Pan & Tilt Horizontal range 0°~360° Horizontal speed Keyboard 100°/S, Manual 0.5°~80°/S Vertical range 5.5°~+90° Vertical speed Keyboard 100°/S, Manual 0.5°~80°/S Automatic flip function 180° automatic flipping with continuous monitoring in the vertical direction Presets 256 presets, accuracy < 0.05° Cruise scan 6 strips, each can set 16 presets, preset time adjustable Pan & Tilt data The pan & tilt's horizontal and pitch angle data can be obtained through instructions, and can be queried through the network or through RS485. Mobile phone monitoring Mobile phone monitoring available(iPhone , Windows Mobile , BlackBerry , Symbian , Android) Interface	CCD Video Camera							
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Day&Night F F1.6-F4.4 Pan & Tilt Horizontal range O°~360° Horizontal speed Keyboard 100°/S, Manual 0.5°~80°/S Vertical range Vertical range Keyboard 100°/S, Manual 0.5°~80°/S Automatic flip function Presets Cruise scan F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flip presets, accuracy < 0.05° Cruise scan F180° automatic flip function F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical direction F180° automatic flipping with continuous monitoring in the vertical dire								
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Vertical speed Keyboard 100°/S, Manual 0.5°~80°/S Automatic flip function 180° automatic flipping with continuous monitoring in the vertical direction Presets 256 presets, accuracy < 0.05° Cruise scan 6 strips, each can set 16 presets, preset time adjustable Pan & Tilt data The pan & tilt's horizontal and pitch angle data can be obtained through instructions, and can be queried through the network or through RS485. Mobile phone monitoring Mobile phone monitoring available(iPhone, Windows Mobile, BlackBerry, Symbian, Android) Interface	Horizontal speed	Keyboard 100°/S, Manual 0.5°~80°/S						
Automatic flip function 180° automatic flipping with continuous monitoring in the vertical direction 256 presets, accuracy < 0.05° Cruise scan 6 strips, each can set 16 presets, preset time adjustable Pan & Tilt data The pan & tilt's horizontal and pitch angle data can be obtained through instructions, and can be queried through the network or through RS485. Mobile phone monitoring Mobile phone monitoring available(iPhone, Windows Mobile, BlackBerry, Symbian, Android) Interface	Vertical range							
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Pan & Tilt data The pan & tilt's horizontal and pitch angle data can be obtained through instructions, and can be queried through the network or through RS485. Mobile phone monitoring Mobile phone monitoring available(iPhone, Windows Mobile, BlackBerry, Symbian, Android) Interface	Presets							
Pan & Tilt data through the network or through RS485. Mobile phone monitoring	Cruise scan							
Mobile phone monitoring Mobile phone monitoring available(iPhone , Windows Mobile , BlackBerry , Symbian , Android) Interface	Pan & Tilt data							
	Mobile phone monitoring							
Video output RJ45, PAL	Interface							
	Video output			RJ4	I5, PAL			

Network protocol	Support ONVIF/RTSP/FTP/PPPOE/DHCP/DDNS/NTP/UPnP		
Control	RS485		
Communication protocol	Support PELCO-D/P		
Baud rate	2400/4800/9600 bps automatic identification		
Power System			
Working voltage	DC: +12V ~ +24V		
Power consumption	<50W(include heating)		
Environment Parameters			
Operating temperature range	-40°C ~ +65°C , humidity<90%		
Storage temperature range	-40°C ~ +70°C		
Encapsulation	IP67, TVS 3000V lightning protection, surge protection, voltage transient protection, comply with EMC IV		
	standard		
Vibration protection	Horizontal: 9G; Vertical: 15G		
Wind protection	180km/h		
Window defrosting	Standard		
Physical Data			
Size	Ф190mm×300mm		
Weight	≤6kg		
Packing	•		
Standard	Dual-Spectral Security Monitor System, User manual, Warranty card, Packing box		