

TC400PTZ & TC600PTZ

IP Full High-Definition Thermal Security Monitor Systems

ULIRVISION TC400PTZ & TC600PTZ are integrated with complete orientation and Pan & Tilt thermal security monitor cameras, equipped with high-performance thermal imaging cameras and full high-definition digital modules. They can offer network video output function and 360° full-orientation observation capability to know all the orientations of the surroundings to secure an area on a 24/7 basis, 365 days a year.

TC400PTZ & TC600PTZ allow users to detect people, objects and incidents in any harsh environment such as total darkness, haze, dust, sleet, forest, grass etc., turning night to day. They are widely used in **the round-the-clock monitoring of coastal defense, border defense, harbors, airports, forest firefighting and other important facilities and key areas.**

Features

NETD < 60mk, clearly thermal imaging video in complete darkness

384×288 | 640×480 17um FPA detector

IP full high-definition thermal imaging cameras

Network video output function

360° full-orientation observation capability

IP66 encapsulation and built-in surging & lightning protection unit

Support RS485, PELCO-D/P and ONVIF interface protocol.

Applications

Government: military bases, maritime, country borders, law enforcement

Infrastructures: power grid, nuclear power, mining, oil & gas facilities, chemical facilities, water utilities

Transportation: waterways, airports, roads and highways, railroads



Technical Specifications

Item	TC400PTZ	TC600PTZ
Thermal Imaging Camera		
Detector type	FPA, uncooled detector	
Detector material	Asi	
IR resolution	384×288	640×480
Pixel pitch	17um	
Spectral range	8~14um	
Detector frequency	50Hz	
Video output	PAL/NTSC	
Thermal sensitivity (NETD)	60mk	
Lens type	Athermal	
Time to image	< 3s	
Object temperature range	-20~+120 C	
Brightness/Contrast	Auto/Manual	
Polarity/LUT	White hot, black hot, pseudo-color	
Electric zoom	2×、4×、8×	
Correction	Manual correction	
CCD Video Camera		
Resolution	PAL:752(H)×582(V) / NTSC:768(H)×494(V)	
TVL	550TVL	
Video output	PAL/NTSC	
Model	SONY FCB-EX1020P	
Zoom	432× (36×optical, 12×digital)	
Minimum illumination	0.01Lux	
SNR	50db	
Electronic anti-shock	On/Off	
Focal distance	F=3.4mm~122.4mm	
Pan/Tilt		
Horizontal angle	0~360° continuous rotation	
Vertical angle	-75~+40°; Max: -90~+40°	
Horizontal speed	0.01~60°/s	
Vertical speed	0.01~30°/s	
Communication protocol	Industrial V0.0, Pelco-D, Pelco-P	
Communication baud rate	2400/4800/9600/19200 bps	
Communication mode	RS485	
Presets	80	
Auto scanning	Industrial V0.0: 5 lines; other protocols: 1 line	
Auto cruise	Industrial V0.0: 5 lines; other protocols: 1 line	
Protection Cover		
Structure	Aluminum alloy	
Temperature-controlled fan	Yes	
Temperature-control heater	Yes	
Encapsulation	IP66	
Power System		
External power	AC24V±25%	
Power consumption	≤90W (w/o heating); ≤95w (w/ heating)	
Environmental Data		
Operating temperature range	-35 C ~+65 C	
Storage temperature range	-40 C ~+65 C	
Humidity	< 90%RH	
Lightning & Surge	GB/T17626.5-2008	
Physical Data		
Size	510mm×350mm×300mm	
Weight	13Kg	
Interface		
Interface protocol	ONVIF,PSIA,CGI,ISAPI,GB28181	
Support protocol	TCP/IP,HTTP,DHCP,DNS,DDNS,RTP/RTSP,PPPoE,SMTP,NTP,UPnP,SNMP,HTTPS,FTP,802.1x	

Lens Data

Model No.	Focal distance	F No.	FOV	Human(m)	Vehicle(m)
TC400PTZ	50mm	F=1	7.5×5.5°	1700	5100
	75mm	F=1	5×3.75°	2400	6400
	100mm	F=1	3.75°x 2.75°	2950	8800
TC600PTZ	50mm	F=1	12.5°x 9.1°	1700	5100
	75mm	F=1	8.3×6.5°	2400	6400
	100mm	F=1	6.3×4.5°	2950	8800