TC800PTZ

Heavy-Duty Dual-Spectrum Pan/Tilt

TC800PTZ infrared thermal imaging camera is composed of large-caliber continuous zoom infrared thermal imaging camera, full HD color B&W dual-mode low-illumination visible light camera, 360° omni-directional high-precision pan&tilt and fully sealed anti-corrosion shield, laser lighting or laser ranging, Beidou/GPS and electronic multi-disk module can be selected as required; It is a camera specially designed and developed for the field of remote day and night monitoring. It can detect and alarm fire sources within 6KM to ensure the safety of life and property. It is suitable for remote monitoring in scenes such as border and coastal defense bases.

Features

The thermal image detector is based on the new generation MEMS technology, NETD≤50 mk, the picture quality is more delicate, and it is less affected by fog, rain and snow weather

Support hot spot detection and alarm, based on front-end raw data algorithm

Can expand laser ranging or laser lighting,
Beidou/GPS, electronic compass and other sensors

Adopt high-definition network camera and large zoom lens, with fog penetration function and various user-defined automatic configuration modes to meet various scene detection requirements

Unique AS + DOE advanced optical continuous zoom design and 3CAM high-precision optical-mechanical design make zoom smooth and stable, which is conducive to large-scale search and long-distance identification;

SDE image detail enhancement technology, the image is smooth and noise-free, a variety of pseudo-color and hot black, hot white polarity image mode switching, strong adaptability, easy to find low contrast hidden targets

Applications

Border security, shore security, city high point

Port wharf, offshore base

Forest fire prevention, oil field, oil depot security, iron tower



Technical Specifications

Item	TC800PTZ				
Detector Data	1COUP1Z				
Detector type	VOx Uncooled FPA				
IR resolution	640×512				
Pixel pitch					
Spectral range	17μm 8 ~14μm				
NETD/Sensitivity	o ~ 14μπ ≤50mK				
Infrared lens	23011110				
Lens type	Continuous zoom				
Focal distance	31mm~155mm				
i ocai distance	Wide FPV: 19.9°×16°				
FOV	Narrow FOV: 4.0°×3.2°				
Focusing	Electric zoom manual/automatic focusing, adaptive active focusing algorithm, supporting multiple trigger modes, accurate and high speed				
	High infrared transmittance, no virtual focus in zoom process, small axis				
Detect	4.8KM/13KM/6KM(fire source target2X2m)				
Identify people/vehicles	1.3KM/3.4KM				
Infrared imaging performa	ance				
Image enhancement	Second generation SDE digital image enhancement algorithm, improving image details, NUC correction: automatic/manual correction, background correction				
Image parameters	AGC automatic gain control, brightness, contrast				
Frequency	50Hz				
Electronic Zoom	2X, 4X, supports global synchronous display				
Polarity/LUT mode	black hot/white hot 16 kinds of pseudo-color images				
Contrast/Brightness	Automatic/Manual				
Thermal imaging spot dete	ection alarm				
Alarm threshold	Level 255 can be set				
Target Size	The range can be set to automatically identify targets of different sizes				
Number of Alarm Targets	1-16 settable to automatically select the most prominent target display				
Alarm mode	Video overlay alarm box + switch value (or data return) multiple alarm modes, the alarm is intuitive and easy to read				
Front-end algorithm	Optimized front-end fast processing algorithm, based on the analysis of each frame of the original heat map data, the alarm response is 0.1s, and there is no delay and no information loss				
Remote parameter adjustment	All alarm parameters and indications can be remotely set through the video OSD menu, which has strong universality				
Special platform	Special warning platform software can be selected to realize various requirements and functions				
CCD Video Camera	I .				
CCD Video Camera					

CCD type	Ultra low illumination starlight CMOS					
Lens Data	11mm~860mm, HD electric zoom, (multiple focal lengths available)					
	With optical infrared correction design, the focus is consistent day and night					
through-frog	Support electronic fog and optical fog					
minimum illumination	Color: 0.0005 Lux; B&W: 0.0001Lux, 0Lux (IRON)					
Coding	H.265/H.264/MPEG4/MIPEG video format with multi-stream support					
Video bit rate	32Kbps ~ 16Mbps, 60Hz 30 frames/second					
Performance	Support SD card local storage, support movement detection, occlusion alarm, cross-border detection, area intrusion detection					
	Support heat wave suppression, electronic anti-shake, white balance, electronic shutter,					
	strong light suppression, 3D digital noise reduction, wide dynamic, anti-infrared					
	overexposure, ABF automatic back focus adjustment function					
Pan & Tilt						
Angle back function	PELCO-D support					
Pan angle	0°~ 360° accuracy: ±0.1°					
Tilt angle	-45° ~ +45°					
Pan speed	0.01°~ 30° /s supports lens focal length adaptation					
Tilt speed	0.01°~ 15° /s supports lens focal length adaptation					
Interface						
Format	Aviation interface					
Network interface	1 RJ45 10M/100M Adaptive Ethernet Port					
Communication	RS485					
Power System						
Working voltage	AC: 24V±10%					
D	≤120W(normal)					
Power consumption	≤180W(heated)					
Environment Parameters						
Operating temperature range	-25°C ~ +65°C(-40°C optional) humidity < 90%					
Storage temperature	-45°C ~ +70°C					
Encapsulation	IP66 (IP67 optional)					
Lightning surge protection	Power supply 4000V, communication video signal 2000V					
Earthquake resistance	0.2g (in accordance with GB/T15211-2013 5.4 Hardness Class 2)					
Impact resistance	15g (in accordance with GB/T15211-2013 5.3 Hardness Class 3)					
Anti-salt fog	When the PH value is 6.5 ~ 7.2, the surface does not change after continuous spraying for 48 hours					
Physical data	Physical data					
Size	590mm(L)×485mm(W)×600mm(H)					
Weight	≤50kg					
Packing						
Standard	Thermal imaging camera, user manual, warranty card, packing box					
Option	Laser ranging or laser lighting, GPS/Beidou, electronic compass, special software					