

33X 4MP Visible + 640*512

Thermal imaging Camera



Key Features

- 50mm Len 640×512/17μm Thermal imaging Camera.
- 33X(4.8-158 mm) Optical Zoom 4MP visible Camera.
- Intelligent algorithms for visible light flame detection, bird recognition, vessel recognition, etc.
- Thermal imager supports intelligent high-temperature warning function, adjustable multi-stop threshold, and menu function selection.
- Supports canceling the germanium glass viewport.
- Horizontal 360° continuous, vertical -90°~+45°rotation.
- Support 3D positioning function, clickable tracking and zooming through the client/IE.
- Outdoor IP66 protection level, lightning, surge and surge protection.
- It can be widely used in straw burning, fishery ban, forest fire prevention, perimeter oil field, border and sea defense.

Technical parameters

Model	SVN-33P50TX900
Visible Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Pixels	4.0MP
Minimum illumination	Color:0.0005 Lux @(F1.6,AGC ON). Black & White:0.001 Lux @(F1.6,AGC ON)
Master Stream Resolution	50Hz: 25fps (2560×1440,1920×1080, 1280×960, 1280×720); 60Hz: 30fps (2560×1440,1920×1080,1280×960, 1280×720)
Focal length	F=4.8~158mm, 33x optical zoom
Lens aperture	F1.6-F4.3
Horizontal field of view	58.9°-2.4°(wide-angle ~ telescopic)
Zoom speed	Approx. 3.5S (wide-angle ~ telescopic, optical zoom)
Close-up distance	100mm~1500mm (Wide-angle - Telescopic)
Day/Night Switching Mode	ICR Infrared Filter Type
Thermal imager	
Detector type	Amorphous silicon infrared microbolometer
Pixels	640×512/17μm
Sensitivity	35mk@ 25°C
Working band	8~14μm

Focal length	50mm
Thermal imaging mode	HDR (Wide Dynamic) Mode, Sea & Sky Mode, Sky & Earth Mode
Palette	9 color palettes to choose from (including iron red, rainbow, black and white, etc.), with customizable color scales
PTZ	
Rotation range	Horizontal: 360°continuous, vertical: -90 to 45°
Rotation speed	Horizontal: 0.1~100°/S, Vertical: 0.1~50°/S
Preset	255
3D function	Support frame enlargement, target locking field of view center function
Automatic cruise	Support focal length and PTZ speed matching
Power failure memory	Support power-off state memory function, automatically return to the PTZ and lens state before power-off after power on
Watch function	On/Off, preset point/cruise scan can stay in idle state after specified time Automatic recall (including idle state entered after power-up)
Transmission structure	Metal pulley + Belt
Remote Upgrade	Support both movement and PTZ remote upgrade
Real-time angle back transmission	Support real-time angle return or query angle return function
Information Display	Support
Angle control	Support
Smart Wiper	Remote intelligent control
Fan/Heating	Real-time temperature detection; low temperature start, pure physical detection
Waterproof respirator	Built-in 2 waterproof respirators to reduce fogging and condensation
Communication Baud Rate	2400/4800/9600/19200bps
Communication Interface	RS485+RS232
Communication protocols	PELCO+VISCA
Network	
Network Protocols	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,RTP,RTSP,RTCP,NTP,SMTP,SNMP, IPv6
Access Protocol	ONVIF(PROFILE S,PROFILE G)
PTZ Interface	
Network Interface	RJ4510/100Base-T/Single Interface Dual IP
Audio Interface	1-channel audio input, 1-channel audio output (optional)
Alarm interface	2-channel alarm input/2-channel relay output (optional)
Analog video interface	1 channel BNC, 75ohm (optional)
External 485 interface	Support adaptive Pelco-P, Pelco-D and other protocols
Ground Line	Grounded
General	
Power supply	DC/AC24V 6.0A
Power consumption	60W/90W(Low temperature start)
Working environment temperature	-40℃~60℃
Humidity of working environment	0~95% (non-condensing)
Protection level	IP67, built-in 4000V lightning, surge and surge protection
Installation	Pillar, wall and corner mounting
Outlet	Side outlet/lower outlet (optional)
Dimension	L330mm×W233mm×H433mm
Product weight	≤10kg
Load weight	≤4kg (including movement shield)
Carrying method	Toploading

Thermal Imaging Camera Range Performance

75mm Lens	Detection distance	Person (1.8m X 0.5m) 3125m
		Vehicle (1.4m X 4.0m) 8750m
	Recognition distance	Person (1.8m X 0.5m) 780m
		Vehicle (1.4m X 4.0m) 2188m
50mm Lens	Detection distance	Person (1.8m X 0.5m) 2083m
		Vehicle (1.4m X 4.0m) 5833m
	Recognition distance	Person (1.8m X 0.5m) 521m
		Vehicle (1.4m X 4.0m) 1458m
35mm Lens	Detection distance	Person (1.8m X 0.5m) 1450m
		Vehicle (1.4m X 4.0m) 4080m
	Recognition distance	Person (1.8m X 0.5m) 365m
		Vehicle (1.4m X 4.0m) 1021m
25mm Lens	Detection distance	Person (1.8m X 0.5m) 1042m
		Vehicle (1.4m X 4.0m) 2917m
	Recognition distance	Person (1.8m X 0.5m) 261m
		Vehicle (1.4m X 4.0m) 729m
19mm Lens	Detection distance	Person (1.8m X 0.5m) 708m
		Vehicle (1.4m X 4.0m) 1983m
	Recognition distance	Person (1.8m X 0.5m) 177m
		Vehicle (1.4m X 4.0m) 496m
10mm Lens	Detection distance	Person (1.8m X 0.5m) 417m
		Vehicle (1.4m X 4.0m) 1167m
	Recognition distance	Person (1.8m X 0.5m) 104m
		Vehicle (1.4m X 4.0m) 292m

Dimension(mm)

