

EXD300/EXD600

Explosion-proof PTZ Thermal Cameras

The dual-spectrum explosion-proof PTZ thermal imaging camera is mainly developed based on the principle of infrared heat radiation. It is a non-contact, real-time, continuous and accurate temperature measurement device.

It has the characteristics of small size, low power consumption, and easy integration. The change of the target state, combined with the software system of the device, can visualize the temperature information of the temperature measurement object, and realize multiple functions such as equipment maintenance, fault detection, industrial process control, and quarantine.

It can be widely used in electric power temperature measurement and industrial automation, inspection and quarantine and other fields.



Key Features

- **Precise Temperature Measurement:** Point, line, and area.
- **High-Sensitivity Detector:** With contrast control.
- **Auto Hot-Spot Tracking:** Locates and tracks the hottest point.
- **Accurate Measurement:** $\pm 2^{\circ}\text{C}$ or 2% accuracy.
- **Manual Control:** Adjust timing and temperature.
- **Enhanced Imaging:** Features 3D noise reduction and false colour.
- **Flexible Display:** Digital zoom and mirror image.
- **Network Compatibility:** Supports RTSP, ONVIF, GB/T28181 and other protocols.
- **Lossless Compression:** Efficient real-time data streaming.
- **Compact Design:** Lightweight, low power, and easy to integrate.

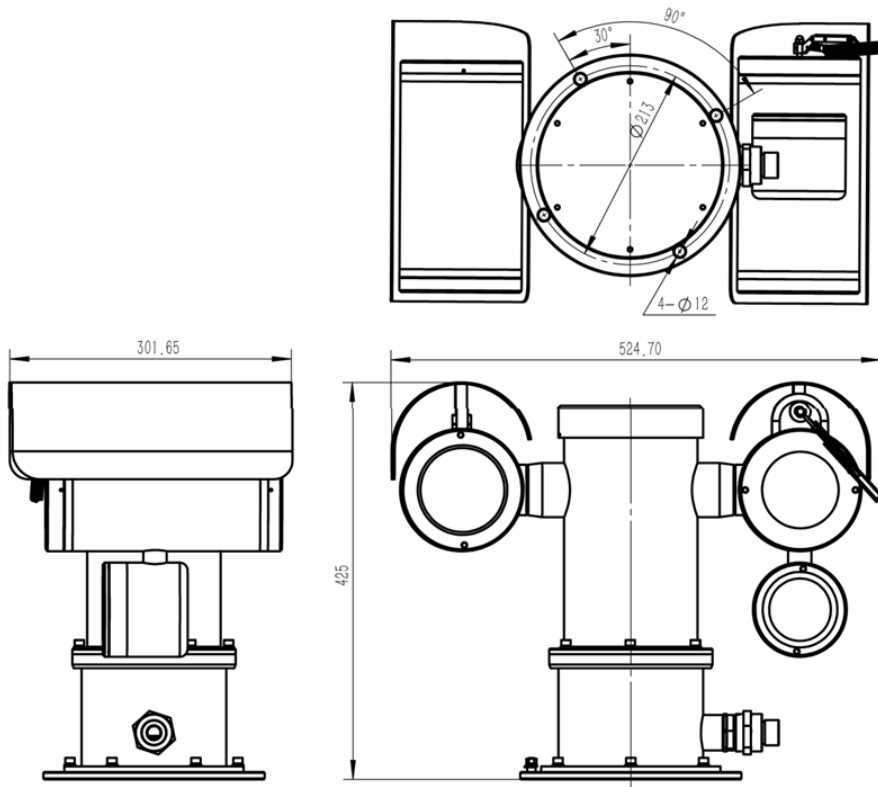


Specifications

Model		EXD300		EXD600	
Infrared performance	Structure	Integrated design of detector, controller and protective cover			
	Detector type	Uncooled FPA			
	Spectral Range	7.5-14μm			
	IR Resolution	384*288		640*512	
	Thermal Sensitivity/NETD	<40 mk (@30℃)		<40 mk (@30℃)	
	Focal Length	25mm	50mm	25mm	50mm
	Field of View	14.8°×11.1°	7.5°x5.6°	24.9°× 20°	12.4°x9.9°
	Spatial resolution (IFOV)	0.68	0.34	0.68	0.34
	Object temperature range	-20 ℃~150 ℃（low temperature range）, 0 ℃~410℃ （medium temperature range）			
	Optional temperature range	+300 ℃~+650 ℃/+300 ℃~+2000 ℃/other ranges (high temperature range)			
	Temperature measurement accuracy	±2℃ or 2% of readings			
	Focus	Manual/electric/automatic			
	Color Palettes	10 Color Palettes			
Visible light performance	Sensor type	1/2.8" Progressive Scan CMOS			
	Day and night conversion mode	ICR infrared filter			
	Signal to Noise Ratio	>52dB			
	Electronic shutter	1/1second ~ 1/30,000second			
	Resolution	1920x1080, 2MP			
	Minimum illumination	colour: 0.05Lux @ (F1.6, AGC ON) black and white: 0.01Lux @ (F1.6, AGC ON)			
	White balance	Automatic 1/automatic 2/indoor/outdoor/manual/sodium lamp/fluorescent lamp			
	3D denoise	support			

	Focal Length	4.8-120mm, 25x optical zoom
	Aperture	F1.6-F4.4
	Light filling function	Infrared light filling, effective distance of 100m
	Horizontal view	65.1-2.34°(Wide angle - telescopic)
	Close range	10-1500mm(Wide angle - telescopic)
PTZ performance	Horizontal range	0°~360°(Continuous rotation)
	Vertical range	—90°~90°
	Horizontal speed	0.5~90°/s
	Vertical speed	0.1~9°/s
	Preset position	255
	Cruise scan	6, each can add 18 preset points
	Power-off self-locking	support
Interface	Power interface	AC220V power interface
	Network interface	One RJ45 interface 10M/100M adaptive Ethernet port
	Analog video interface	BNC interface
	RS485	support
System parameter	Continuous analysis of temperature flow data	Automatic acquisition of time temperature trend curve of maximum temperature, average temperature and minimum temperature
	Keyframe retrieval	Quickly fetch key frames for any part of the trend curve
	Operating temperature and humidity	-40°C~65 °C, <90% RH
	Protection level	IP68(2m/2h)
	Explosion-proof sign	Ex d IIC T6 Gb/Ex tD A21 IP68 T80°C
	Seismic resistance	2.5g
	Impact resistance	25g
	Anti-electromagnetic interference	IEC60960:1991+A1:1992,A2:1993,A3:1995,A4:1996
	Safety of low-voltage apparatus	EN 55 022 EN 55 024
	Installation environment	Indoor/outdoor
	Work environment	-35°C~+65°C,humidity < 90%RH
	Material	304 stainless steel

Product Size



Unit: mm