WDM-EX-THW32

Application Environments

Applicable for the factories having the explosive mixtures formed from class IIA,IIB and IIC T1-T6 group flammable gas, steam with air in area No.1 , No.2, and appearing the explosive hazardous area due to the mixture of flammable dust and air in area No.20, No.21 and No.22, such as oil field, chemical plant, port, oil storage, steamship, oil drilling platform, gas stations, coal mine, aviation, military, medicine, steel, firecrackers production, machinery, food processing and storage and so on.

Features

- 304 or 316L stainless steel, explosion-proof, dust-proof, water-proof, rust-proof
- Highly integrated explosion-proof PTZ, explosion-proof decoder, smaller volume and lighter, more intelligent and advanced function
- 360°horizontal rotation, -90°~+90°vertical, omnibearing monitor suspicious target
- Optical 30X zoom, with 4.5mm~135mm lens
- Germanium glass with good transmittance has stable chemical properties and is not easy to react with metal oxides, acidic substances such as air and water.
- Uncooled Vox Micro Bolometer with 640*512 resolution
- NETD is less than 40mK
- Support 3 temperature measurement rule types (spot, line, area)
- Intelligent analysis: intrusion, single line crossing, double line crossing, object left, object removed
- Support temperature monitoring and exception alarm

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Technical Parameter

Model	**WDM-EX-THW32**
Mechanical Features	
Material	304 or 316L Stainless Steel
Surface Treatment	Original Stainless Steel Color, Electropolishing Optional
Ingress Protection	IP68
Rotation Angle	Horizontal 0°~360°,Vertical-90°~+90°
Rotation Speed	Horizontal 0.1°/s~30°/s, Vertical 0.1°/s~30°/s
Communication Method	RS422/485
RS-485 Protocols	Pelco-P, Pelco-D, self-adaptive
Communication Baud Rate	2,400/4,800/9,600/19,200 bps
Interface Spec	M25
Weight	≤34kg
Automatic Scanning	1 (Menu control can set 5)
Automatic Cruise	1 (Menu control can set 8)
Tracking	1 (Record 200 instructions)
Max Carrying Capacity	10kg
Method of Installation	Wall Mounting & Upright Platform Installation
Camera	
Sensor Type	1/2.8 " Progressive Scan CMOS
Image Max Resolution	2048*1536
Image resolution	50Hz:25fps(2048*1536、1920x1080、1280*720) 60Hz:30fps(2048*1536、1920x1080、1280*720)
Minimum Illumination	Color：0.01 Lux @(F1.6,AGC ON) B/W: 0.001Lux @(F1.6,AGC ON)
White Balance	Auto/Manual/ATW/Indoor/Outdoor/Daylight lamp/Sodium lamp
Gain	16 leves adjustable
BLC	Support
3D DNR	Support
Electronic Shutter	1/5s~1/20,000s
Digital Zoom	16x
Lens	
Focal Length	4.5mm~135mm, 30x Optical Zoom

Zoom Speed	Approx.3s (Optical Lens, Wide-Tele)
Field of View	59.8° -2.3°(Wide-Tele)

Image Parameters

Image Output	Main Stream： 50Hz:25fps(2048*1536、1920x1080、1280*720) 60Hz:30fps(2048*1536、1920x1080、1280*720) Second Stream： 50Hz:25fps(D1/VGA/640x360/CIF/QVGA) 60Hz:30fps(D1/VGA/640x360/CIF/QVGA) Third Stream： 50Hz: 25fps(VGA/ CIF/QVGA) 60Hz: 30fps(VGA/ CIF/QVGA) Fouth Stream：P：1/2、1/3、1/4、1/5
HLC	Support
WDR	120dB
BLC	Support
ROI	Support
EIS	Support
3D Noise Reduction	2D、3D Auto、Manual
Defog	Support
Privacy	Support

Compression Standard

Video Compression	H.265 / H.264 / MJPEG
Stream Type	VBR/CBR
Audio Compression	G711_ALAW/G711_ULAW：8kbps； RAW_PCM：16kbps
Video Stream Range	Main stream：200Kbps ~ 12000Kbps； Second stream：100Kbps ~ 6000Kbps； Third stream：100Kbps ~ 6000Kbps

Smart Features

Smart Detection	Area intrusion detection, entry/exit area detection, loitering detection, crowd detection, rapid movement detection, parking detection, and leave/take detection
IP Filter	Support Black/White List
Intelligent Alarm	Motion detection Alarm、I/O Alarm、Disk Alarm

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Electrical Features	
Power Supply	AC110V~220V
Working Current	≤2000mA
Electrical Connectivity	Composite Cable
Automatic Mode	Automatic Cruise or Any Setting Two Rounds
Pre-position	256 Location(Selectable)
Pre-position accuracy	Automic Correction Error
Environmental	
Rated Temperature	(-30°C, +70°C)
Atmospheric Pressure	80-106KPa
Relative Humidity	≤95%RH(+25°C)

Thermal Camera				
Detector Type	VOx Uncooled Focal Plane Arrays			
Effctive Pixels	Sensor is 640×512. Image can be scaled up to 704×576			
Pixel Size	17um			
Spectral Range	8～14um			
Thermal Sensitivity (NETD)	≤ 40 mK			
Lens				
Lens Type	Fixed			
Focus Control	Motorized Focus			
Fixed	8/15/25/35/50mm			
Focal Length	15mm	25mm	35mm	50mm
F No.	F1.0	F1.0	F1.0	F1.0
Angle of View	H: 39.8° V: 32.3°	H: 24.5° V: 19.7°	H: 17.6° V: 14.1°	H: 12.4° V: 9.9°
Detection Distance (Fire: 1m×1m)	441 m	735 m	1029 m	1471 m
Detection Distance (Humans: 1.8×0.5m)	441 m	735 m	1029m	1471 m
Detection Distance (Vehicles: 4×1.5m)	1353 m	2255 m	3137m	4510 m

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Recognition Distance (Humans: 1.8×0.5m)	110 m	184 m	257m	368 m
Recognition Distance (Vehicles 4×1.5m)	338 m	564 m	789m	1127 m

Video and Audio				
Main Stream	704×576 @ 25/30fps			
Sub Stream	CIF @ 25/30fps			
Bit Rate Control	CBR/VBR			
Bit Rate	Main stream: 100Kbps ~ 6Mbps Sub stream: 10Kbps ~ 1.5Mbps			
Region of Interest	Off / On (8 Zone, Rectangle)			
Smart Encode	Support			
Audio Compression	G.711: 8kbps, RAW_PCM: 16kbps			

Image	
Image Setting	Brightness, Sharpness, Contrast
Mirror	Support
Pseudo-color Setting	White-hot/Black-hot/Rainbow/Ironbow etc. up to 17 modes
DVE Image Enhance	Support
Noise Reduction	2D/3D DNR
Privacy Masking	Support

Temperature Detection	
Temperature Detection	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).
Temperature Alarm	Over temperature alarm, Temperature difference alarm
Accuracy	±2°C / ±2%
Response Time	≤ 30ms
Temperature Range	-20°C ~ 150°C (-4°F ~ 302°F)
Temperature display mode	Temperature target >5°C, Display absolute temperature value, Temperature target ≤5°C, Display relative temperature value (temperature difference DEV = highest value - average)

Network	
Protocols	IPv4/IPv6, HTTP, RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, 802.1x

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Interoperability	ONVIF, CGI, SDK
Max. User Access	10 Users
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge
Interface	
Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	1ch input, 1ch output
Alarm Interface	2ch input, 2ch output
RS485	Support
CVBS Interface	BNC, 75 ohm
Reset Button	Support
SD Card Slot	Support, up to 128GB
Smart Function	
Smart Functions	Motion detection, Disk alarm, I/O alarm, Temperature detection & alarm
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Object left, Object removed
General	
Power Supply	DC12V±10%
Power Consumption	5W
Storage Conditions	RH90%

Dimension

504

283

390.5

Ø230

M25*1.5接口

Ø215

6-Ø6.6

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