DS-2TD4035D-25/50

Thermal + Optical Bi-spectrum Network Speed Dome

Key Features

Smart Function (Thermal Imaging)

- Smart tracking: support panorama tracking, event tracking and multi-scene patrol tracking
- Smart detection: intrusion detection, line crossing detection, region entrance detection, region exiting detection, audio exception detection
- Smart recording: support edge recording
- Smart encoding: support low bitrate
- Smart tracking linkage: thermal and visible image

IR Function

- High-performance IR array, up to 150m IR distance
- Smart IR
- IR intensity automatically adjusted, depending on the zoom ratio
- Built-in temperature conditioner
- 30,000 hour life-time IR LED

System Function

- High-performance 1/3" sensor, up to 1920x1080 resolution
- Motor with less than 0.1° bias
- Open-ended API, support HIKVISION SDK, ONVIF, CGI and PSIA
- Support PAL
- Automatically adaptive to HIKVISION, Pelco-P/D
- 3D intelligent positioning function
- System backup
- Power-off memory function: restore PTZ & lens status after reboot
- Lightning protection, surge protection and voltage transient protection
- IP66
- Scheduled PTZ movement

Visible Light Module Function

- 30X optical zoom(4.3mm to 129mm), 16X digital zoom
- Support auto iris, auto focus, auto white balance, backlight compensation, WDR and 3D DNR
- Image enhancement (visible light): defog, high light compensation, EIS
- Region exposure and region focus
- ROI
- Support privacy mask, optional multiple regions, colors and mosaics

Thermal Imaging Module Function

- 384x288 resolution, high sensitivity sensor, support contrast adjustment
- Support shutter adjustment in various modes
- 3D DNR, 14 pseudo colors adjustable, image detail enhancement
- Support mirror image and local output
- 24/7 long-distance surveillance; 25mm and 50mm lens optional

Network Function

- Ethernet control and analog output
- View image and realize control by IE and client software
- Built-in Micro SD/SDHC/SDXC card slot
- Support up to 8 NAS; edge recording
- Support three-level user, authorized user and password, HTTPS encryption, IEEE 802.1x access control and IP address filtering
- Support dual-stream technology
- Support H.264/MJPEG/MPEG4 (H.264: Baseline/Main/High Profile),; real-time output resolution HDTV1080p (SMPTE274M Standard), 960p and HDTV720p (SMPTE296M Standard)
- 1 audio input and 1 audio output

PTZ Function

- 360° endless pan range and -15°-90° tilt range
- Up to 240°/s pan preset speed and 200°/s tilt preset speed
- 0.1° -160°/s manual pan speed and 0.1° -120°/s manual tilt speed
- 300 presets programmable; preset image freezing capability
- 8 patrols, up to 32 presets per patrol
- 4 patterns, with the recording time not less than 10 min per pattern
- Support proportional zoom and park action
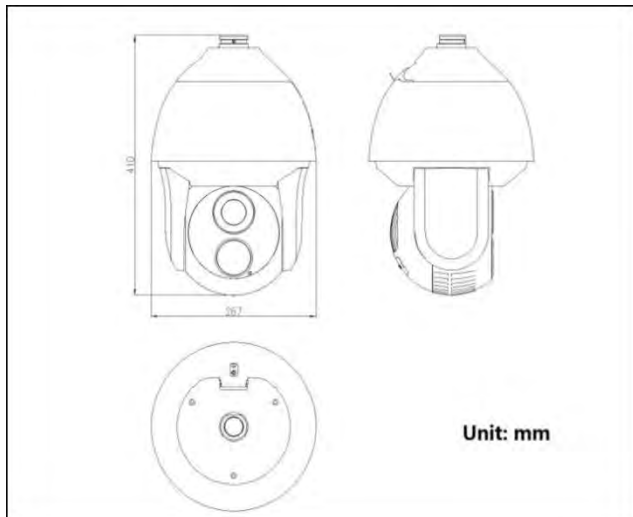
Application Scenario

Thermal + Optical Bi-spectrum network speed dome can be widely applied in scenarios with low visibility, zero visible light and strong light interference. It has good performance in large-scale scenarios such as airports, harbors, oil fields, borders, forests, grasslands, scenic sights, military installations, etc.

Specification

Parameter	Model	DS-2TD4035D-25, DS-2TD4035D-50	
		Thermal + Optical Bi-spectrum Network Speed Dome	
Thermal Module	Image sensor	Vanadium Oxide Uncooled Focal Plane Detectors	
	Max. Resolution	384 × 288	
	Response waveband	8~14μm	
	NETD	< 50mk(@25°C,F#=1.0)	
	MRTD	MRTD < 100mk(@25°C,F#=1.0)	
	MRTD	0.6mrad	
	Reference Object Size	Human: 1.8*0.5m	Vehicle: 1.4*4.0m
	Lens (focal length)	25mm	50mm
	Detection range (Vehicles)	1533m	3067m
	Detection range (Humans)	500m	1000m
	Recognition range (Vehicles)	383m	767m
	Recognition range (Humans)	125m	250m
	Identification range (Vehicles)	192m	383m
	Identification range (Humans)	63m	125m
	Field angle	21.7°x16.4°	11.0°x8.2°
	F number	1.0	1.0
	Image Setting	Brightness, AGC, DDE, FFC adjustable via client software or web browser	
	Color Palette	White Hot, Black Hot, Fusion1, Rainbow, Fusion2, Ironbow1, Ironbow2, Sepia, Color1, Color2, Ice Fire, Rain, Red Hot, Green Hot	
PTZ	Pan range	360° endless	
	Pan speed	Pan Manual Speed: 0.1°-160°/s Pan Preset Speed: 240°/s	
	Tilt range	-15°-90° (auto flip)	-5°-90° (auto flip)
	Tilt speed	Tilt Manual Speed: 0.1°-120°/s Tilt Preset Speed: 200°/s	
	Proportional zoom	Support	
	Number of preset	300	
	Patrol	8 patrols, up to 32 presets per patrol	
	Pattern	4 patterns, with the recording time not less than 10 minutes per pattern	
	Power-off memory	Support	
	Park action	Preset / Patrol / Pattern /Pan scan/Tilt scan/Random scan/Frame scan/Panorama scan	
	PTZ position display	On / Off	
	Preset freezing	Support	
	Scheduled task	Preset / Patrol / Pattern /Pan scan/Tilt scan/Random scan/Frame scan/Panorama scan/Dome reboot /Dome adjust /Aux output	
Infrared	IR distance	150m	
	IR intensity	Automatically adjusted, depending on the zoom ratio	
Network	Max. image resolution	1920×1080 (visible light), 384×288(infrared)	
	Main stream	50Hz:25fps(1920×1080), 25fps(1280×960), 25fps(1280×720) (visible light) 60Hz:30fps(1920×1080), 30fps(1280×960), 30fps(1280×720) (visible light) 50Hz:25fps(384×288) (thermal)	
	Sub stream	50Hz:25fps(704×576), 25fps(352×288), 25fps(176×144) 60Hz:30fps(704×480), 30fps(352×240), 30fps(176×120) 50Hz:25fps(384×288) (thermal)	
	Video compression	H.264/MJPEG/MPEG4, H.264 encoding with Baseline/Main/High Profile	
	Audio compression	G .711u/G.711a/G.722.1/MP2L2/G726/ PCM	
	Protocols	IPv4/IPv6,HTTP,HTTPS,802.1x,Qos,FTP,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RTCP,RTP,TCP,UDP,IGMP,ICMP,DHCP,PPPoE,Bonjour	
	Simultaneous live view	Up to 20	
	User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User	
	Security measures	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering	
Integration	Alarm input	7 inputs (0-5vDC)	
	Alarm output	2 relay outputs, alarm response actions configurable	
	Alarm action	Preset/Patrol/Pattern/SD recording/Relay output/Smart capture/FTP upload/Email linkage	
	Audio input	1 Mic in/Line in interface. Line input: 2-2.4V[p-p], output impedance:1KΩ±10%	
	Audio output	Line level, impedance: 600Ω	
	Ethernet	1 RJ45 10M/100M Self-adaptive Ethernet interface	
	SD memory card	Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 64G), support manual/alarm recording	
	Analog video output	1.0V[p-p] / 75Ω, PAL(or NTSC), BNC	
	RS485 protocols	Half-duplex; HIKVISION, PELCO-P, PELCO-D, self-adaptive	
	Application programming	Open-ended API, support ONVIF, PSIA, CGI, HIKVISION SDK and third-party management platform	
	Client	iVMS-4200	
	Web browser	IE7+, Chrome18+, Firefox5.0+, Safari5.02+	
General	Menu language	Chinese/English	
	Power	AC24V 60W max	
	Working temperature Humidity	24 VAC: -40 ℃-60℃ (-40℉-140℉) 90% or less	
	Protection level	IP66 TVS 6000V Lightning protection, surge protection, voltage transient protection	
	Mount option	Various options, choose according to scenarios	
	Dimensions	Φ266.6(mm)×365.2(mm)	
	Weight	8kg	

Dimensions

Unit: mm

Order Models

- DS-2TD4035D-25   AC24V
- DS-2TD4035D-50   AC24V

Accessories

DS-1602ZJ Long-arm wall mount

DS-1602ZJ-Pole Pole mount

DS-1602ZJ-corner Corner mount

DS-1602ZJ-Box Power box mount