

DS-2TD8166-150ZE2FL/V2

- High sensitivity thermal module with 640 x 512 resolution
- NETD is less than 40 mk (@25° C, F#=1.0)
- Supports contrast adjustment
- Leading thermal image processing technology: Adaptive AGC, DDE, 3D DNR
- Up to 15 palettes of adjustable color
- Smart tracking: Panorama, event and multi-scene patrol
- Smart tracking linkage: Thermal and optical views
- Powerful perimeter protection algorithm, based on deep learning algorithm: Line crossing, intrusion, region entrance & exit
- Reliable temperature-anomaly alarm
- Advanced fire detection algorithm

▪ Specification

Thermal Module	
Image sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Pixel Interval	17μm
NETD	less than 40mk(@25°C,F#=1.0)
MRAD	0.57 to 0.11 mrad
Field of View	WIDE:20.56° x 16.51°; TELE:4.15° x 3.32°
Min. Focusing Distance	2 m
Aperture	F1.2
Response waveband	8μm to 14μm
Optical Module	
Max. Resolution	1920 × 1080
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color : 0.005 Lux @ (F3.5, AGC ON),B/W : 0.0005 Lux @ (F3.5, AGC ON)
Field of View	31.5 ° × 23.9 ° to 0.51 ° × 0.39 ° (Wide-Tele)
Aperture Range	F3.5 to Close
Focus Mode	Auto / Semiautomatic / Manual
WDR	Digital
Shutter Speed	PAL: 1-1/30,000s / NTSC: 1-1/30,000s
Day & Night	IR Cut Filter
Laser	
Laser light distance	Up to 3000 meters
Laser light accuracy	Auto Adjust
Smart Function	
VCA(Video Content Analysis)	4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 8 VCA rules.
Temperature Measurement	3 temperature measurement rule types, 21 rules (10 points, 10 regions, and 1 line).
Temperature Range	-20 °C to 150 °C (-4 °F to 302 °F)
Temperature Accuracy	±8 °C (14.4 °F)
Fire Detection	Dynamic fire point detection, up to 10 fire points detectable.
PTZ	
Movement Range	Pan: 360° Continuous Rotate; Tilt: From -45 ° to + 45 ° (auto flip)
Pan Speed	Configurable, From 0.01°/s to 40°/s
Tilt Speed	Configurable, From 0.01°/s to 20°/s
Proportional Zoom	Yes
Presets	300
Patrol Scan	8; Up to 32 Presets Per Patrol
Pattern Scan	4; More Than 10 Minutes Per Pattern
Park	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output
PT Status	Turn On/Turn Off
Scheduled Task	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan/Doom Reboot/Doom Adjust/Aux Output

Network	
Main Stream	Optical:50Hz:25fps(1920×1080), 25fps(1280×960), 25fps(1280×720),Optical:60Hz:30fps(1920×1080), 30fps(1280×960), 30fps(1280×720),Thermal: 50fps(640 × 512)
Sub stream	Optical:50Hz:25fps (704 × 576), 25fps (352 × 288), 25fps (176 × 144),Optical:60Hz:30fps (704 × 480), 30fps (352 × 240), 30fps (176 × 120),Thermal: 50fps(640 × 512)
Video compression	H.264 (Baseline/Main/High Profile) /MJPEG/MPEG4
Audio compression	G .711u/G.711a/G.722.1/MP2L2/G.726/PCM
Protocols	IPv4/IPv6,HTTP,HTTPS,802.1x,Qos,FTP,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RTCP,RTCP,TCP,UDP,IGMP,ICMP,DHCP, PPPoE, Bonjour
Simultaneous live view	Up to 20-ch
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	Up to 7-ch Relay Input (0-5V DC)
Alarm Output	Up to 2-ch; Support Alarm Linkage
Alarm Action	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage
Audio Input	LINE_IN Input/MIC Input; Peak: From 2 to 2.4V[p-p]; Output Impedance: 1KΩ±10%
Audio Output	Linear Level; Impedance: 600Ω
Ethernet	Built-in RJ45; 10M/100M Ethernet Interface
SD Memory Card	Built-in Micro SD/SDHC/SDXC Card Slot, Up to 64GB; Support Manual/Alarm Recording
Analog Video Output	1.0V [p-p]/75Ω, PAL/NTSC/BNC
RS485	Half-Duplex; HIKVISION, PELCO-P and PELCO-D Self-adaptive
Application Programming	Open-ended API, support ISAPI; Support HIKVISION SDK and Third-party Management Platform
Client	iVMS-4200
Web Browser	IE 7+, Chrome 18+, Firefox 5.0+, Safari 5.02+; Multiple Languages
General	
Menu Language	English
Power	48V DC/5A
Power Consumption	220W
Work Temperature/Humidity	From -40°C to 60°C (-40°F to 140°F); Humidity: 90% or Less
Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Dimensions	649.2 mm × 438 mm × 261.3 mm (25.56 " × 17.24 " × 10.29 ")
Weight	Approx. 60kg (132.3 lb)

▪ Available Model

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