THERMAL AND OFFICAL

-SPECTRUM NETWORK SPEED DOME

MODEL: TB-TC40H-491VFPI

Introduction

TB-TC40H-491VFPI Thermal and Optical Bispectrum Network Speed Dome equipped with built-in GPU which sup ports intelligent perimeter protection algorithm, can realize high-precision VCA detection and real-time alarm. It is applied for perimeter protection and fire-prevention in critical infrastructures such as community, construction site, factory, 4S stores, and so on . The pre-alarm system helps you discover unexpected events immediately and protects your property.

Product Image













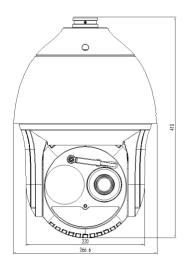






Features

- Perimeter protection function, based on intelligent algorithm: line crossing, intrusion, region entrance and exit
- Fire detection algorithm
- Temperature exception alarm for fire prevention
- 640 × 512 (the resolution of output image is 640 × 512) resolution 17 μm, VOx UFPA, NETD ≤ 40 mK (@ 25 °C,F#=1.0)
- Image processing technology: Liner, histogram, and self-adaptive thermal AGC mode, DDE, 3D DNR
- NEMA-4X Standard
- High quality detector with 10 years guarantee
- Smart tracking: Panorama tracking, Event tracking and Multi-scene patrol tracking
- Smart tracking linkage: thermal view and optical view
- Thermal channel supports EIS, conflicted with intelligent function
- Smoke detection for fire prevention







Industrial Zone - Lai Yen - Hoai Duc - Ha Noi







Specification

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hermal Module						
Image Sensor	VOx Uncooled Focal Plane Arrays					
Resolution	640 × 512					
Pixel Interval	17 μm					
Response Waveband	8 μm to 14 μm					
NETD	Less than 40 mK (@ 25 °C,F#=1.0)					
Focal Length	50 mm					
Focus Mode	Athermalized					
IFOV	0.34 mrad					
Aperture	F1.0					
Field of View	12.4° × 9.9° (H × V)					
Min. Focusing Distance	50m					
Digital Zoom	×2, ×4, ×8					
Optical Module						
Image Sensor	1/1.8" Progressive Scan CMOS					
Resolution	2688 × 1520, 4 MP					
Min. Illumination Color: 0.005 Lux @(F1.3, AGC ON), B/W: 0.001 Lux @(
Field of View	56.6° ×33.7° (H × V)~1.8° ×1.0° (H × V)					
Focal Length	6-240 mm, 40x					
Aperture (Range)	F1.3-F4.6					
Focus Mode	Auto/Semi-auto/Manual					
Digital Zoom	×2, ×4, ×8, ×16					
Shutter Speed	1s to 1/30,000s					
WDR	120 dB					
Optical Defog	Yes					
Image Effect						
Picture in Picture	Display partial image of thermal channel on the full screen of optical channel					
Target Coloration	Supported in white hot and black hot mode					
PTZ						
Movement Range	Pan: 360° Continuous Rotate; Tilt: From -20° to + 90° (auto flip)					
Pan Speed	Configurable, From 0.1°/s to 200°/s, Preset Speed: 240°/s					
Tilt Speed	Configurable, From 0.1°/s to 105°/s, Preset Speed: 200°/s					
Proportional Zoom	Yes					
Presets	300 in total, 273 are configurable.					
Patrol Scan	8; Up to 32 Presets Per Patrol					
Pattern Scan	4; More Than 10 Minutes Per Pattern					
Power Off Memory	Yes					
Park	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan/Frame Scan/Panorama Scan					
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					



E111 FACTORY - THANH BINH BCA CO., LTD.





Illuminator				
IR Distance	Up to 150m			
IR Intensity and Angle	Automatically adjusted			
Smart Function				
VCA	Support 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), up to 10 scenes and 8 VCA rules for each scene			
Temperature Measurement	Support 3 temperature measurement rule types, 273 presets as scene, 21 rules of each scene (10 points, 10 areas, 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 detection, up to 10 fire points detectable.			
Video and Audio				
Main Stream	Thermal channel 50fps(1920 × 1080, 1280 × 960, 1280 × 720, 704×576, 640×512, 384×288) Optical channel 50Hz:25fps(2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720) 60Hz:30fps(2688 × 1520, 1920 × 1080, 1280 × 960, 1280 × 720)			
Sub-stream	Thermal channel 50fps(704×576, 640×512 384×288) Optical channel 50Hz:25fps(704 × 576, 352 × 288) 60Hz:30fps(704 × 576, 352 × 288)			
Video Compression	Main stream: H.265+/H.265/H.264+/ H.264 Sub-stream: H.265/H.264/MJPEG			
Audio Compression	G .711u/G.711a/G.722.1/MP2L2/G.726/PCM			
Network				
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE			
Network Storage	MicroSD/SDHC/SDXC card (256 G) local storage, and NAS (NFS, SMB/CIFS), autonetwork replenishment (ANR)			
API	ISAPI, TBVISION SDK, third-party management platform, ONVIF profile S,T,G)			
Simultaneous Live View	Up to 20 channels			
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User			
Security	User authentication (ID and password), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering			
Client	VIMS			
Web Browser	Live view (plug-in allowed): Internet Explorer 11 Live view (plug-in free): Chrome 57.0 +, Firefox 52.0 + Local service: Chrome 57.0+, Firefox 52.0 +			







Interface	rface				
Alarm Input	7-ch inputs (0-5 VDC)				
Alarm Output	2-ch relay outputs, alarm response actions configurable				
Alarm Action	Preset/Patrol Scan/Pattern Scan/SD Card Record/Relay Output/Smart capture/FTP upload/Email linkage				
Audio Input	1, 3.5 mm Mic in/Line in interface. Line input: 2 - 2.4 V [p-p], output impedance: 1 K Ω ±10%				
Audio Output	Linear Level; Impedance: $600~\Omega$				
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface. 1, RS-485 interface				
Analog Video Output	1.0 V [p-p]/75 Ω , BNC for thermal channel				
General					
Web Client Language	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)				
Power Supply	24V AC ± 20%, 36V DC ± 20%, 48V DC ± 20%				
Power Consumption	65W Max				
Work Temperature/Humidity	From -40°C to 65°C (-40°F to 149°F); Humidity: 95% or Less				
Wiper	Yes				
Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection				
Dimension	220 mm × 410 mm × 198.6 mm (8.66" × 16.15" × 7.82")				
Weight	Approx. 9kg (19.84 lb)				

Range Table

VCA Range	VCA Range	Temperature	Temperature	Fire Detection	Fire Detection
(Vehicles: 1.4 ×	(Humans: 1.8 ×	Measurement	Measurement	(Object: 2 × 2	(Object: 1 × 1
4.0 m)	0.5 m)	(Object: 2 × 2	(Object: 1 × 1	m)	m)
		m)	m)		
1500 m	350 m	1170 m	590 m	2940 m	1470 m







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* The table is only for reference and the performance may vary from camera to camera.

Detection Range: In order to distinguish an object from the background, the image must be covered by 1.5 or more pixels.

Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the image must have at least 6 pixels across its critical dimension.

Identification Range: In order to identify the object and describe it in details, the critical dimension must have be least 12 pixels across

Detection Range	Detection Range	Recognition	Recognition	Identification	Identification
(Vehicles: 1.4×	(Humans: 1.8×	Range (Vehicles:	Range (Humans:	Range (Vehicles:	Range (Humans: 1.8
4.0 m)	0.5 m)	1.4×	1.8×	1.4×	×
		4.0 m)	0.5 m)	4.0 m)	0.5 m)
4510 m	1470 m	1127 m	368 m	564 m	184 m

Accessories







Mount with Junction Box



Wall mount





