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KVISION Highly Accurate Thermographic Camera Installation and Configuration Guide





Temperature Measurement Range: 30°–45° C Working Temperature: 10°-35° C Accuracy: $\pm 0.5^{\circ}$ C **Resolution**: 160 × 120

Bullet: DS-2TD2617B

Turret: DS-2TD1217B

Installation—Quick Temporary Tripod Deployment



Tripod Adapter for Turret



Tripod Adapter for Bullet





A. Attach tripod connector to the adapter





B. Affix the adapter to the camera

C. Install the camera on the tripod



Installation Parameter Recommended					
Model	Distance (between human and camera)				
DS-2TD1217B-3/PA	0.8 m–1.5 m				
DS-2TD2617B-6/PA	1.5 m–3 m				

Model	Height	Elevation Angle	
DS-2TD1217B-3/PA	1 5 m	≤20°	
DS-2TD2617B-6/PA	1.5 m		

D. Installation complete



1. Select **Body Thermometry** as VCA Resource Type.

HIKVISION	Live View	Playback	Picture	Configuration				
🖵 Local	Upgrade & Mai	ntenance Log	system Service	VCA Resource Type	Security Audit Log			
System	VCA Res	VCA Resource Configuration						
System Settings	○ Temperat	ure Measuremen	t					
Maintenance	 Body The 	Body Thermometry						
Coourity								

4. Configure Camera 01 (Optical) Settings.

НІК	VISION	Live View	Playback	Picture	Configuration			
Q I	Local	Basic Settings	Body Thermometr	y Configuration	Linkage Method			
8	System	Channel No.	Came	ra 01	~			
0	Network	Enable Face	ce Detection					
Q.	Video/Audio	🗹 Display Te	mperature					
-	image	Upload Ca	ptured Face Image					
	Event	🗌 Display Fa	ce Temperature Posit	ion			-	
	Storage				Opera	Configuration	Targeting	~
8	Body Thermometry	PD3-18-2020 No	4 20:59:29			Face Detection Parameter	Nrs	
E	Basic Settings		_			Min. Pupil Distance	40	
F	Face Capture					Max. Pupil Distance	312	
						Generation Speed		5
		1.1.1				Sensitivity	-	5
			Mart			Alarm When Temperatur	37.5	•
			FIL	A 4'S		Pre-Alarm Temperature	37	

	User Management	🖹 Save
\odot	Network	

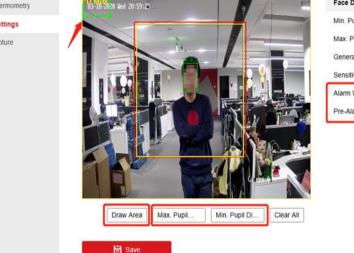
2. Go to Local Configuration interface, enable and save the following settings:

HIK	VISION	Live View	Playback	Picture	Configu	uration
Q	Local	Live	View Parameters			
	System	Pro	itocol	TCP		○ MULTICAST ○ HTTP
Ø	Network	Pla	y Performance	⊖ Shortest Delay	Balanced	○ Fluent
<u>.0</u> .	Video/Audio	Ru	es	 Enable 	 Disable 	
1	Image	Aut	o Start Live View	⊖ Yes	No	
Ë	Event	Ima	age Format	JPEG	⊖ BMP	
B	Storage	Dis	play Rules Info. on Ca…	Yes	⊖ No	
\$	Body Thermometry	Dis	play Temperature Info.	Yes	⊖ No	
Ŭ		Dis	play Temperature Info	Yes	⊖ No	

3. Go to Body Thermometry **Basic Settings.** Configure and save the following settings:

HIKVISION	Live View	Playback	Picture	Configuration
🖵 Local	Basic Settings	Body Thermometry	Configuration	Linkage Method
😁 System	Channel No.	Camera	02	~
Network	🗹 Enable Tem	perature Measurement		
Video/Audio	Enable Colo	r-Temperature		
Image	🗹 Display Tem	perature Info. on Strea	ım	
Event	Add Original	Data on Capture		
Storage	Add Original	Data on Stream		
Body Thermometry	Data Refresh In	terval 3		✓ s
0	Unit	Degree	Celsius(°C)	\checkmark
	Temperature Ra	ange 30.0~45	.0	\checkmark
	Version	V2.0.7bu	uild20200210	
	Target Ther	mometry Parameters		
	Emissivity	0.98		
	Distance	1.0		m
	E	Save		

Emissivity: For human skin, this value is normally set as 0.98. **Distance:** The actual distance between the camera and human.

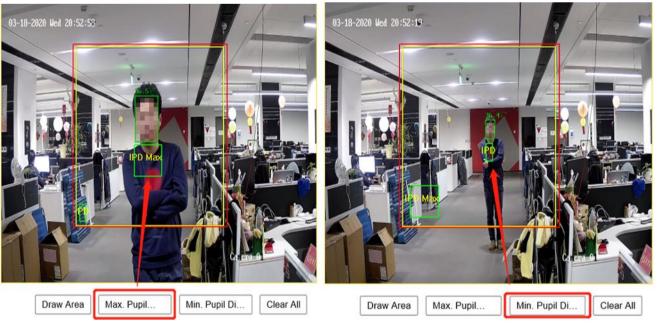


Check Enable Face Detection and Display Temperature. Suggest uncheck Upload Captured Face Image and Display Face **Temperature Position** if they are not required.

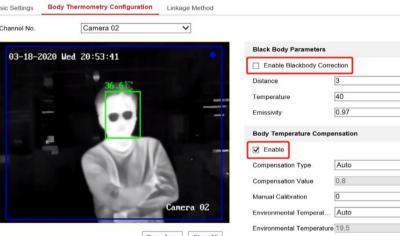
Set Alarm Temp. and Pre-alarm Temp.

Press Draw Area to adjust face detection region.

Click Max. Pupil Distance and Min. Pupil Distance to draw width filter frame, Max and Min distance refer to camera detection distance.



5. Configure Camera 02 (Thermal) Settings.



Draw Area Clear All

Uncheck Enable Blackbody Correction if no blackbody is used. Check Enable of Body Temperature Compensation and keep parameters as default.



The environment can easily influence the thermal camera's performance. Therefore, it is required to be used in a stable indoor environment without wind, and the ambient temperature should be consistent. Here's some advice:

1. Set up a one-way screening zone, and ensure that camera can clearly see the face of person whose skinsurface temperature is being measured.

- 2. Avoid backgrounds that are too crowded or bright.
- 3. Wait 30 minutes after turning on the camera before taking skin-surface temperature measurements, because the camera needs to stabilize.
- 4. If there is a large gap between indoor and outdoor temperatures, it is highly suggested to wait more than five minutes before measuring the skin-surface temperature of people who just got in.
- 5. Follow the guidance of required temperature measurement distance.

See far, go further