HKDQTECH

Dome IP Thermal Camera

Product overview

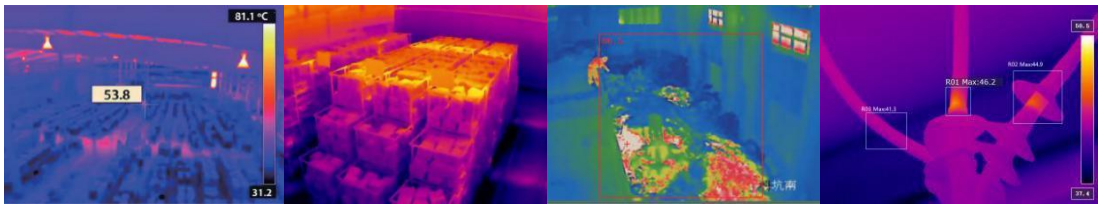
Dome IP Thermal Camera is mainly developed based on the principle of infrared heat radiation. It is a non-contact, real-time, continuous and accurate temperature measurement device. It has the characteristics of small size, low power consumption, and easy integration. The change of the target state, combined with the software system of the device, can visualize the temperature information of the temperature measurement object, and realize multiple functions such as equipment maintenance, fault detection, industrial process control, and quarantine. It can be widely used in electric power temperature measurement and industrial automation, inspection and quarantine and other fields.

Thermal imaging function

- The device supports front-end temperature measurement, and supports point, line, frame temperature measurement.
- High sensitivity detector, support contrast adjustment.
- Highest temperature cross cursor tracking and positioning.
- Temperature measurement accuracy: ±2℃ or ±2% of reading, maximum value.
- Support timing, temperature difference and shutter correction in manual mode.
- Support 3D noise reduction function, adjustable false color, image detail enhancement function.
- Support mirror image, digital zoom and local video output.
- Rich network cable interface protocols, supporting RTSP, ONVIF and other protocols.
- Powerful data lossless compression performance (one real-time H.264 stream + one real-time temperature data stream).
- Lightweight and portable, low power consumption, small size, easy integration.

Application scenarios

It can be applied to various flammable, explosive and high-risk places such as electric power, hazardous chemical storage yards, warehouses, petroleum and petrochemicals, rotary kilns, solid waste and hazardous waste.

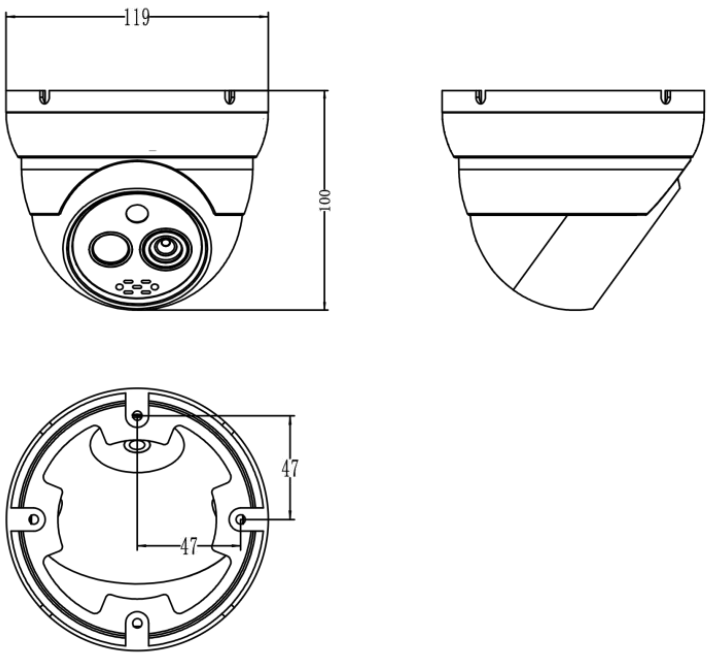


Technical parameter

Model	EX200-BQ-3	EX200-BQ-7	EX200-BQ-10
Infrared performance			
Detector type	Uncooled FPA		
IR Resolution	256×192		
Spectral Range	8~14μm		
Thermal Sensitivity (NETD)	≤50mk@F1.0，25Hz，300K		
Focal Length	3.6mm	7mm	10mm
Field of View	50°×37.2°	24.7°×18.6°	17.4°x13.1°
Spatial resolution (IFOV)	3.33	1.71	1.2
Palette	10 color palettes		
Thermometric analysis	Infinite points, infinite boxes, infinite lines		
Object temperature range	-20 ℃~150 ℃（low temperature range），0 ℃~410℃ (medium temperature range)		
Optional temperature range	+300 ℃~+650 ℃		
Temperature measurement accuracy	±2℃ or 2% of readings,maximum value		
Visible light performance			
Sensor type	1/3.02" CSP CMOS		
Resolution	2560×1440 4MP		
Focal length	4mm	6mm	8mm
Field angle	78°x42°	50°x28°	31°x27°
Minimum illumination	Color: 0.01 Lux@（F1.2，AGC ON），Black and white: 0 Lux with IR		
Fill light function	Infrared fill light, up to 40 meters		
Interface			

Power interface	φ5.5*2.1 DC power interface
Network interface	One 10M/100M adaptive Ethernet port
Reset button	1 reset button
Alarm output	1 normally open relay output, supports over-temperature alarm output
Network protocol	TCP/IP,IPv4,HTTP,FTP,DDNS,DHCP,RTP,RTSP,UDP,NTP,IGMP,ICMP, ONVIF
Application programming interface	Support standard protocol (ONVIF), support SDK access
System parameter	
Voltage supply	DC12V/PoE
Power	< 6W
Operating temperature and humidity	-40℃~65℃， < 90% RH
Protection level	IP66
Weight	0.68Kg
Shell material	Die-cast aluminum

Product Size:



Unit: mm