



## EOS-T160 Thermal Specifications

Model number	EOS-T160-thermal	
System	Hisilicon integrated system	
Protocol	ONVIF protocol, support for providing the lower layer and assisting with development	
Video configuration and navigation method	Configuration	Network port
	WEB	Support (video can be viewed)
	PC client	Support (video available)
	Mobile app	Support (video available)
Input	Integrated 1CH video, 1CH audio	
PTZ	Pan range	Continuous 360° rotation
	Tilt range	-30°–90°
	Rotation speed	Pan control speed: 100°/s, tilt control speed: 60°/s
	Preset	200x
	Patrol	4x
	Line scan	Support
	Park function	Support
	IR	2x high-power infrared lamps, infrared range up to 120 metres
Camera	Sensor	1/2.8" high-performance low-light CMOS sensor (IMX327)
	Resolution	1080P (1920*1080 25/30 frames/sec)
	Optical zoom	33x
	Focus lens	F = 5.5–180 mm
	Digital zoom	10x
	Aperture	F1.6 ~ F4.3
	Angle of view	Wide: 65.2° × 56.9° Telephoto: 3.3° × 2.9°
	Illumination	(Condition: F1.6 (W), 50 IRE), 0.05 lx (1/30 s) IR-CUT enabled, 0.005 lx (1/4s) IR-CUT reduction
	WDR	DWDR
	Day/Night mode	ICR switch
Compression	H.264/H.265	
Bitrate	32Kbps–16Mbps	
Frame rate	1–25 fps (50 Hz) 1–30 fps (60 Hz)	
Streams	Dual-stream support, main stream (1080P; 960P; 720P), sub-stream (D1; VGA; CIF)	
Video	Format	AVI (with audio)
	Supported resolution	D1/720P/1080P (default)
	Video file length	10 minutes (default)
	Frame rate	25/30 fps
Storage	Single card, maximum support 256GB	
Snap	Supported resolution	D1/720P/1080P (default)
Audio	Audio input	Built-in high-sensitivity sensor, optional handheld microphone
	Compression standard	G711
	Sampling rate	16K, 32K, 64K, 128K
Infrared light settings	Infrared power	1 high-power infrared dot matrix
	Infrared angle	1x 15° lamp reflector, 1x 60° lamp reflector
	Infrared control method	PWM dimming

## EOS-T160 Thermal Specifications

	Infrared range	Effective infrared range: 120 metres
	Detector type	Alarm type: uncooled
Thermal imaging	Resolution	640×512, 384×288
	Response band	8–14 μm
	Frame rate	50 fps
	Fixed lens focal length	15mm fixed, 25mm optional, 35mm fixed lens
	Lens aperture	F1.0
	Field of view	28.7° x 23.2°, 17.5° x 13.1°
	Grey scale alarm	≤ 0.2 s
	Digital zoom	1x, 2x, 4x, 8x
	Pseudo-colour	Support, black heat, white heat, red heat, blend
	Image processing	Image detail enhancement (DDE), automatic gain control (AGC), digital filter noise reduction
	Brightness and contrast adjustment	Manual/AUTO
	Digital video output	8-bit BT.656 / 14-bit RAW + YUV (TM36/33-LGD)
	Control interface	RS-232/RS-485/UART/RS-422
3G/4G	Wireless system	Full 4G Netcom
	Number of wireless cards	1 SIM card
	Private network	Custom
	Antenna placement	Built-in
Wi-Fi	Standard	IEEE 802.11a/b/g/n/ac 2.4GHz and 5GHz
	Range	15m
	Antenna placement	Integrated
	AP access point	Support
	Support for basic Wi-Fi function settings	
Satellite positioning	Positioning method	GPS/Beidou (built-in module)
	Auxiliary positioning	Supporting base station positioning
	Antenna placement	Integrated 4G antenna, integrated Wi-Fi antenna
LCD display	LED light	Backlight 1 light ring
	OLED screen	Supports OLED screen to display 4G, Wi-Fi, GPS connection status, storage status, signal strength and connection to the display platform Status
	OSD	OSD image can be viewed and displayed, device name, time, GPS, 4G network, battery status
Alarm	Input	1CH
	Output	1 group
Expand	RS232 serial port	RS232 serial port, can be connected to various sensors, such as temperature and humidity, radar and other devices
Buttons and controls	Physical button	1 machine switch button; press and hold for 3 seconds to switch machines
Protection rating	IP67	
Handle design	Support	
Operating temperature	-30–60°	
Operating humidity	0–95% (non-condensing)	
Product dimensions	165*124*229.6	
Weight	6.6kg/6kg	packed in a safety box

## EOS-T160 Thermal Specifications

Mounting options	Magnetic suction cup, tripod mounting, wall mounting on bracket, ceiling mounting, pole mounting	
Interface cable	Charging port	Φ5.5*2.1
	Serial port	Level 232
	Audio port	US standard headphone jack
	Alarm output port	1CH
Power and energy consumption	Battery	DC 12.6V 120Wh (9 x 18650 batteries)
		High-precision power monitoring
	Power consumption of the camera alone	Typical 10W, maximum power consumption is less than 20W (IR on)
	Continuous operating time	8 hours
	Battery location	Built-in at the bottom
	Charging standard	DC 12.6V/3A
	Charging time	Switch off for 4 hours, switch on for 8 hours (typical 12V 5A)
Standard accessories	Interface cable	Standard
	Handle	Standard
	Charger	DC 12.6V 5A
Optional accessories	Handheld microphone	DC4.2V 7.4Wh, dimensions 63*25.6*90mm (optional)
	Safety box	Optional
	Fixed disc tripod	Optional
	Tripod	Aluminium alloy, total weight 1.5kg, 4 legs, maximum load 8kg (optional)