

IP DUAL SENSOR THERMAL PTZ CAMERA



ENC-HHP7Z-37X-37

FEATURES

400x300 Uncooled VOx Micro Bolometer Detector

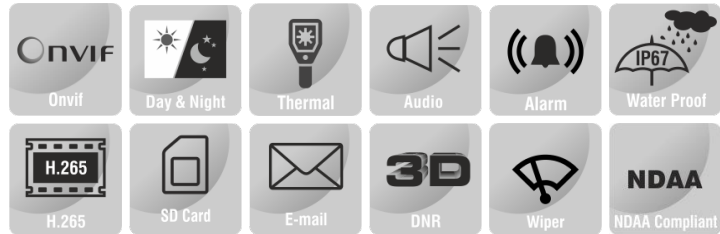
Sensitivity $\leq 40\text{mK}$

25/50/75/100mm Fixed Thermal Lens

Areas / Spot / Line Temperature Measurement Rule Support

17 Color Patterns Support

IP67



SPECIFICATION

MODEL	Model No.	ENC-HHP7Z-37X-37
	Type	IP DUAL SENSOR THERMAL PTZ CAMERA
THERMAL CAMERA	Detector Type	Uncooled VOx Focal Plane Arrays
	Effective Pixels	400x300 and Image can be scaled up to 704x576
	Pixel Size	17um
	Thermal Sensitivity (NETD)	$\leq 40\text{ mK}$
	Spectral Range	8~14um
	Image Settings	Brightness, Sharpness, Contrast, 3D DNR, Mirror / Flip, FFC
	Color Palettes	White & Black Hot, Ironbow, Rainbow etc. up to 17 modes
	Iris	Auto Fixed IRIS
THERMAL LENS	Lens	Fixed
	Focus Control	Motorized Focus
	Focal Length	25/50/75/100 mm
	F No	F1.0
	Angle of View	25 mm: 15.4°(H), 11.6° (V), 19.2° (D) 50mm: 7.7° (H), 5.8° (V), 9.6° (D) 75 mm: 5.1° (H), 3.8° (V), 6.3° (D) 100 mm: 3.8° (H), 2.3° (V), 4.4° (D)
	Detection	25 mm: Human(1.8m×0.5m) - 735 m, Vehicle(4.0m×1.5m) - 2255 m 50 mm: Human(1.8m×0.5m) - 1471 m, Vehicle(4.0m×1.5m) - 4510 m 75 mm: Human(1.8m×0.5m) - 2206 m, Vehicle(4.0m×1.5m) - 6765 m 100 mm: Human(1.8m×0.5m) - 2941 m, Vehicle(4.0m×1.5m) - 9020 m
	Recognition	25 mm: Human(1.8m×0.5m) - 184 m, Vehicle(4.0m×1.5m) - 564 m 50 mm: Human(1.8m×0.5m) - 368 m, Vehicle(4.0m×1.5m) - 1127 m 75 mm: Human(1.8m×0.5m) - 551 m, Vehicle(4.0m×1.5m) - 1691 m 100 mm: Human(1.8m×0.5m) - 735 m, Vehicle(4.0m×1.5m) - 2255 m
	Identification	25 mm: Human(1.8m×0.5m) - 92 m, Vehicle(4.0m×1.5m) - 282 m 50 mm: Human(1.8m×0.5m) - 184 m, Vehicle(4.0m×1.5m) - 564 m 75 mm: Human(1.8m×0.5m) - 276 m, Vehicle(4.0m×1.5m) - 846 m 100 mm: Human(1.8m×0.5m) - 368 m, Vehicle(4.0m×1.5m) - 1127 m
	Fire Detection	25 mm: Fire(0.2m×0.2m) - 147 m, Fire (1.0m×1.0m) - 735 m 50 mm: Fire(0.2m×0.2m) - 294 m, Fire (1.0m×1.0m) - 1471 m 75 mm: Fire(0.2m×0.2m) - 441 m, Fire (1.0m×1.0m) - 2206 m 100 mm: Fire(0.2m×0.2m) - 588 m, Fire (1.0m×1.0m) - 2941 m

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VISIBLE CAMERA	Image Sensor	1/1.8" Sony CMOS
	Max Resolution	2592x1520
	Focal Length	6.8 ~ 251 mm
	Focus Control	Auto/Semi Auto/Manual
	Angle of View(H)	60.7° ~ 2.3°
	Angle of View(V)	36.8° ~ 1.3°
	Angle of View(D)	70.9° ~ 2.6°
	Max Aperture	F1.5 ~ F4.8
	Optical Zoom	37x
	Digital Zoom	16x
	Electronic Shutter	1s ~ 1/100,000s, Auto/Manual
	Min. illumination	Color:0.001 lux @ F1.5, B/W:0.0001 lux
	AGC	Auto/Manual
	Defog	Smart Defog
	S/N Ratio	≥55dB
WDR	120dB	
Detection	95.0 ~ 3515.0 m	
Observation	38.0 ~ 1406.0 m	
Recognition	19.0 ~ 703.0 m	
Identification	9.5 ~ 351.5 m	
VIDEO	Video Compression	Enhanced (H.265, H.264), H.265, H.264, MJPEG
	Frame Rate	Main Stream: Thermal: (704x576) @25/30fps; Visible: (2592x1520, 2304x1296, 1920x1080, 1280x720) @25/30fps Sub Stream: Thermal: (352x288) @25/30fps; Visible: (704x576, 640x480, 352x288) @25/30fps Third Stream: Visible: (640x480, 352x288, 320x240) @25/30fps
	Stream Settings	I-Frame, PAL/NTSC, Frame Rate
	Video Bit Rate	Thermal: 100Kbps ~ 6Mbps Visible: 100Kbps ~ 12Mbps
	Bit Rate Type	CBR, VBR
	Image Settings	Brightness, Contrast, Saturation, Sharpness, Day/Night (Color, Mono, Auto), Flip/Mirror/Rotation, Multiple Scene & Profile
	White Balance	Auto, Day/Night, Tungsten, Fluorescent, Shadow, Manual
	HLC	Supported
	BLC	Supported
	OSD	Up to 8 regions
	OSD Type	Title, Week, Date, Time, Text with different colors and adaptable sizes (Small / Medium / Big), Image overlay
	ROI	Up to 8 regions
Privacy Masking	Up to 4 regions	
AUDIO	Audio Compression	G.711A, G.711U, RAW_PCM
	Audio Bitrate	64kbps, 128kbps
	Audio I/O	2/2
SMART	Behaviour Detection	Thermal/Visible: Intrusion (Perimeter), Crossline (Tripwire), Double Crossline (Double Tripwire)
	Intelligent Identification	Thermal/Visible: Loitering Thermal: Region Entry / Exit Detection, Flame Point Detection Visible: Smoke Detection, Flame Detection
	Statistical Analysis	Thermal/Visible: People Counting, Wrong Way Detection, Human and Vehicle Detection, Temperature Detection Visible: Face Detection, Illegal Parking
	Alarm Management	Motion Detection, Tampering (Masking), Input & Output Event, Network Alarm, Temperature Alarm, Disk Alarm, Day Night Switch Alarm, Pre/Post Alarm Recording, Alarm Recording/Snapshot
	Alarm Notification	E-mail (Notification & Snapshot), HTTP (Alarm icon), FTP (Snapshot & Recording), SD Card (Recording)
TEMPERATURE	Detection Mode	Spot, Line, Area (Total 20 Rules - 1 Full Screen and 19 others)
	Alarm	Over/Difference Alarm
	Accuracy	±2°C / ±2%
	Response Time	≤ 30ms
	Measurement Range	-20°C ~ 150°C(-4°F ~ 302°F) (Optional 150°C ~ 550°C (302°F ~ 1022°F))

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MODEL	Model No.	ENC-HHP7Z-37X-37
	Type	IP DUAL SENSOR THERMAL PTZ CAMERA
INTERFACE	Protocols	TCP/IP, UDP, IPv4, IPv6, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP/RTCP, RTSP, PPPoE, NTP, UPnP, SMTP, IGMP V2/V3, 802.1x, QoS, Unicast, Multicast, SNMP, ARP, SSL / TLS 1.2
	Security	AES 128/256 Encryption, IP Filter, User Authentication (Multiple Privilege Level), HTTPS Authentication, Digest Authentication, User Access Log
	Compatibility	ONVIF (Profile S, G, T, M), CGI/SDK
	Network	1xRJ45 10M/100M Self Adaptive Ethernet Port
	Serial Interface	1xRS485
	BNC	Supported
	Edge Storage	Micro SD Card Slot, up to 512 GB
	Alarm I/O	9/4
	Heater	Supported
	Fan	Supported
	Max.User	32
	Wiper	Supported
	Web Language	15
	Client Application	EyeGuard
PAN AND TILT	Pan Range	0° ~ 360° (Endless)
	Pan Speed	Pan Manual Speed: 0.01° ~ 60°/s, Pan Preset Speed: 60°/s
	Tilt Range	-75° ~ +40°
	Tilt Speed	Tilt Manual Speed: 0.01° ~ 30° /s, Tilt Preset Speed: 30°/s
	Preset Accuracy	±0.2°
	Number of Presets	400
	Power Off Recovery	Supported
	3D Position	Supported
	PTZ Mode	8 Scan, 6 Track, 12 Patrols (32 Presets per Patrol)
	Speed Setup	Auto/Manual (0-8)
GENERAL	Power Supply	36V DC
	Max. Power Consumption	≤100 W
	Working Temperature	-40 °C ~ 70 °C
	Working Humidity	≤95% RH
	Casing	Metal
	Ingress Protection	IP67
	Vandal Resistant	IK10 (Housing)
	Surge Protection	TVS6000V
	Reset Button	Supported
	Dimensions	25/50/75mm Lens: 293 × 420 × 520 mm 100 mm Lens: 333 × 490 × 550 mm
Weight	25/50/75mm Lens: 26 Kg 100mm Len: 28 Kg	

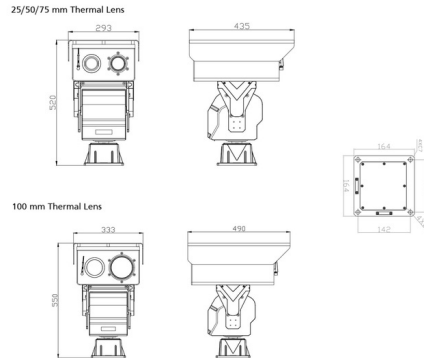
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Dimension Unit : mm



ORDERING INFORMATION

Part Number	Description	Standard Quantity
ENC-HHP7Z-37X-37 (With 25 mm Thermal Lens and -20°C ~ 150°C Measurement Range)	4MP IP Dual Sensor Temperature Detection Thermal PTZ Camera with Visible Lens of 37X Optical Zoom and Thermal Imaging Camera with 400*300 Thermal Resolution and SD Card Slot Support	1
ENC-HHP7Z-37X-37 (With 50 mm Thermal Lens and -20°C ~ 150°C Measurement Range)	4MP IP Dual Sensor Temperature Detection Thermal PTZ Camera with Visible Lens of 37X Optical Zoom and Thermal Imaging Camera with 400*300 Thermal Resolution and SD Card Slot Support	1
ENC-HHP7Z-37X-37 (With 75 mm Thermal Lens and -20°C ~ 150° Measurement Range)	4MP IP Dual Sensor Temperature Detection Thermal PTZ Camera with Visible Lens of 37X Optical Zoom and Thermal Imaging Camera with 400*300 Thermal Resolution and SD Card Slot Support	1
ENC-HHP7Z-37X-37 (With 100 mm Thermal Lens and -20°C ~ 150°C Measurement Range)	4MP IP Dual Sensor Temperature Detection Thermal PTZ Camera with Visible Lens of 37X Optical Zoom and Thermal Imaging Camera with 400*300 Thermal Resolution and SD Card Slot Support	1
ENC-HHP7Z-37X-37 (With 25 mm Thermal Lens and 150°C ~ 550°C Measurement Range)	4MP IP Dual Sensor Temperature Detection Thermal PTZ Camera with Visible Lens of 37X Optical Zoom and Thermal Imaging Camera with 400*300 Thermal Resolution and SD Card Slot Support	1
ENC-HHP7Z-37X-37 (With 50 mm Thermal Lens and 150°C ~ 550°C Measurement Range)	4MP IP Dual Sensor Temperature Detection Thermal PTZ Camera with Visible Lens of 37X Optical Zoom and Thermal Imaging Camera with 400*300 Thermal Resolution and SD Card Slot Support	1
ENC-HHP7Z-37X-37 (With 75 mm Thermal Lens and -150°C ~ 550°C Measurement Range)	4MP IP Dual Sensor Temperature Detection Thermal PTZ Camera with Visible Lens of 37X Optical Zoom and Thermal Imaging Camera with 400*300 Thermal Resolution and SD Card Slot Support	1
ENC-HHP7Z-37X-37 (With 100 mm Thermal Lens and 150°C ~ 550°C Measurement Range)	4MP IP Dual Sensor Temperature Detection Thermal PTZ Camera with Visible Lens of 37X Optical Zoom and Thermal Imaging Camera with 400*300 Thermal Resolution and SD Card Slot Support	1

PACKING INFORMATION

Part Number	Packing Mode	Gross weight(Kg)	Dimension(mm)
ENC-HHP7Z-37X-37	Carton Box	-	-

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