

IP DUAL SENSOR THERMAL PTZ CAMERA



ENC-HHP7Z-60X-37

FEATURES

400x300 Uncooled VOx Micro Bolometer Detector

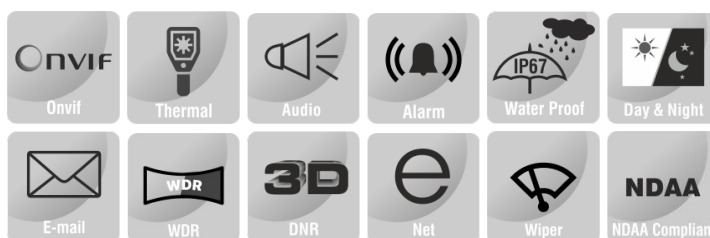
Sensitivity $\leq 40\text{mK}$

75/100 mm Motorized Focus Lens

Areas / Spot / Line Temperature Measurement Rule Support

17 Color Patterns Support

IP67



SPECIFICATION

MODEL	Model No.	ENC-HHP7Z-60X-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, Mirror, 2D/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	75/100 mm
	F No	F1.0
	Digital Zoom	16x
	Angle of View	75mm : 5.1°(H), 3.8°(V) 100mm : 3.8°(H), 2.3°(V)
	Detection	75 mm: Human(1.8mx0.5m) - 2203 m, Vehicle(4.0mx1.4m) - 6765 m 100 mm: Human(1.8mx0.5m) - 2937 m, Vehicle(4.0mx1.4m) - 9020 m
	Recognition	75 mm: Human(1.8mx0.5m) - 551 m, Vehicle(4.0mx1.4m) - 1691 m 100 mm: Human(1.8mx0.5m) - 734 m, Vehicle(4.0mx1.4m) - 2255 m
	Identification	75 mm: Human(1.8mx0.5m) - 275 m, Vehicle(4.0mx1.4m) - 846 m 100 mm: Human(1.8mx0.5m) - 367 m, Vehicle(4.0mx1.4m) - 1127 m
	Fire Detection	75 mm: Fire(1.0mx1.0m) - 2206 m, Fire(0.2mx0.2m) - 441 m 100 mm: Fire(1.0mx1.0m) - 2941 m, Fire(0.2mx0.2m) - 588 m

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MODEL	Model No.	ENC-HHP7Z-60X-37
	Type	IP DUAL SENSOR THERMAL PTZ CAMERA
VISIBLE CAMERA	Image Sensor	1/2.8" CMOS
	Max Resolution	2592x1520
	Focal Length	12.5 ~ 750mm (16.7 ~ 1000mm optional)
	Focus Control	Auto/Manual
	Angle of View(H)	23.8° ~ 0.4° (Optional 17.9° ~ 0.3°)
	Angle of View(V)	14.0° ~ 0.2° (Optional 10.5° ~ 0.1°)
	Angle of View(D)	27.6° ~ 0.4° (Optional 20.7° ~ 0.4°)
	Max Aperture	F3.1 ~ F16
	Optical Zoom	60x
	Digital Zoom	16x
	Shutter Speed	1s ~ 1/100,000s, Auto/Manual
	Min. illumination	Color:0.03 lux @ F3.1, B/W:0.003 lux
	AGC	Auto/Manual
	S/N Ratio	≥55dB
Defog	Smart Defog	
WDR	120dB	
Wavelength	850 nm	
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
	Stream Settings	i-Frame, PAL/NTSC, Frame Rate
	Bit Rate Control	CBR, VBR
	Bit Rate	Thermal: 100Kbps ~ 6Mbps Visible: 100Kbps ~ 12Mbps
	BLC	Supported
	HLC	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.711, RAW_PCM
	Audio Bitrate	64 kbps, 128kbps
	Audio I/O	2/2
SMART	Behaviour Detection	Thermal/Visible: Intrusion (Perimeter), Crossline (Tripwire), Double Crossline (Double Tripwire)
	Intelligent Identification	Thermal/Visible: Multi Loitering, Abandoned Object (Object Left), Missing Object(Object Lost),People counting
	Statistical Analysis	Thermal/Visible: Intrusion, Single line crossing, Double line crossing, Abnormal Speed, Wrong Way Detection, Illegal Parking, Signal Bad
	Alarm Management	Motion Detection, Tampering Alarm, Disk Full Alarm, Temperature Alarm, Input / Output Alarm, Network Alarm
TEMPERATURE	Alarm Notification	E-mail (Notification & Snapshot), HTTP (Alarm icon), FTP (Snapshot & Recording), SD Card (Recording)
	Detection Mode	Spot, Line, Area (Total 20 Rules - 1Full Screen and 19 Other)
	Alarm	Over/Difference Alarm
	Accuracy	±2°C / ±2%
	Response Time	≤ 30ms
	Measurement range	-20°C ~ 150°C (Optional -20°C ~ 550°C)

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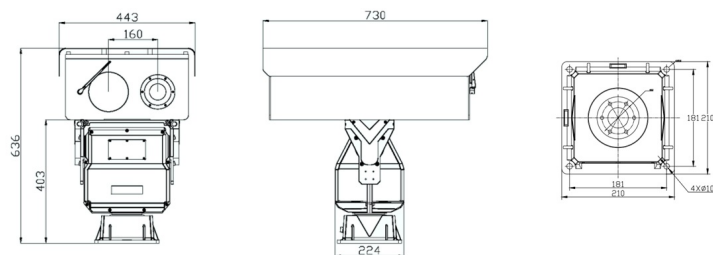
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MODEL	Model No.	ENC-HHP7Z-60X-37
	Type	IP DUAL SENSOR THERMAL PTZ CAMERA
INTERFACE	Protocols	TCP/IP, UDP, IPv4, IPv6, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP/RTCP, RTSP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP V2/V3, 802.1x, QoS, Unicast, Multicast, SNMP, ARP, SSL / TLS 1.2
	Security	AES Video Encryption, IP Filter, User Authentication (Multiple Privilege Level), HTTPS Authentication, Digest Authentication, User Access Log
	Compatibility	ONVIF (Profile S, G, T), CGI/SDK
	Network	1x RJ45 10M/100M Self Adaptive Ethernet Port
	Serial Interface	1xRS485
	BNC	Supported
	Edge Storage	SD card slot, up to 512 GB
	Alarm I/O	3/3
	Heater & Blower	Supported (Optional)
	Max User access	32
	Client Application	EyeGuard
	PAN AND TILT	Pan Range
Pan Speed		Pan Manual Speed: 0.01°~ 30°/s, Pan Preset Speed: 0.01° ~ 30° /s
Tilt Range		-45° ~ +45°
Tilt Speed		Tilt Manual Speed: 0.01° ~ 15° /s, Tilt Preset Speed: 0.01° ~ 15° /s
Preset Accuracy		± 0.1°
Number of Presets		400
3D Posotion		Supported
Power Off Memory		Supported
PTZ Mode		8 Auto Scan, 12 Patrol, 6 Track (Up to 32 Presets Per Scan)
Speed Setup		Auto/Manual (0-8)
GENERAL	Power Supply	36V DC
	Max. Power consumption	≤150W
	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	730x443x636 mm
Weight	≤48Kg	

Dimension Unit : mm



ORDERING INFORMATION

Part Number	Description	Standard Quantity
ENC-HHP7Z-60X-37	2MP IP Dual Sensor Temperature Detection Thermal PTZ Camera with Visible Lens of 60X Optical Zoom and Thermal Imaging Camera with 400*300 Thermal Resolution and SD Card Slot Support	1

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►NORDEN® | IP DUAL SENSOR THERMAL PTZ CAMERA - GB - Version: 3.0

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PACKING INFORMATION

Part Number	Packing Mode	Gross weight(Kg)	Dimension(mm)
ENC-HHP7Z-60X-37	Carton Box	-	-

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