

# IP DUAL SENSOR THERMAL PTZ CAMERA



## ENC-HHP7Z-60X-39

### FEATURES

640x512 Uncooled VOx Micro Bolometer Detector

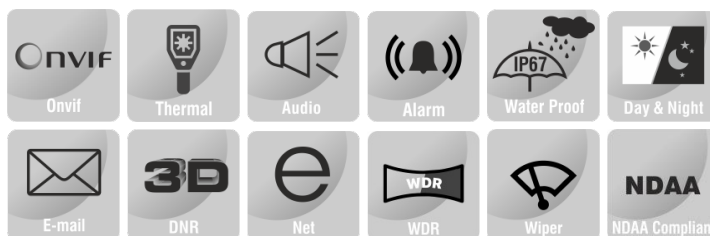
Sensitivity  $\leq 40\text{mK}$

75/100 mm Fixed Thermal Lens

Areas / Spot / Line Temperature Measurement Rule Support

17 Color Patterns Support

IP67



### SPECIFICATION

MODEL	Model No.	ENC-HHP7Z-60X-39
	Type	IP DUAL SENSOR THERMAL PTZ CAMERA
THERMAL CAMERA	Detector Type	Uncooled VOx Focal Plane Arrays
	Effective Pixels	640x512 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, 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
	Angle of View	75 mm : 6.0°(H), 5.0°(V), 7.8°(D) 100 mm : 4.3°(H), 3.5°(V), 5.5°(D)
	Detection	75 mm: Human(1.8m×0.5m) - 3125 m, Vehicle(4.0m×1.5m) - 9583 m 100 mm: Human(1.8m×0.5m) - 4167 m, Vehicle(4.0m×1.5m) - 12778 m
	Recognition	75 mm: Human(1.8m×0.5m) - 781 m, Vehicle(4.0m×1.5m) - 2396m 100 mm: Human(1.8m×0.5m) - 1042 m, Vehicle(4.0m×1.5m) - 3194 m
	Identification	75 mm: Human(1.8m×0.5m) - 391 m, Vehicle(4.0m×1.5m) - 1198 m 100 mm: Human(1.8m×0.5m) - 521 m, Vehicle(4.0m×1.5m) - 1597 m
	Fire Detection	75 mm: Fire(0.2m×0.2m) - 625 m, Fire (1.0m×1.0m) - 3125 m 100 mm: Fire(0.2m×0.2m) - 833 m, Fire (1.0m×1.0m) - 4167 m

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MODEL	Model No.	ENC-HHP7Z-60X-39
	Type	IP DUAL SENSOR THERMAL PTZ CAMERA
VISIBLE CAMERA	Image Sensor	1/2.8" Sony CMOS
	Max Resolution	2560x1440
	Focal Length	12.5 ~ 750 mm (Optional 16.7 ~ 1000 mm)
	Focus Control	Auto/Manual
	Angle of View (H)	33.0° ~ 1.7° (Optional 17.9° ~ 0.3°)
	Angle of View (V)	19.4° ~ 1.0° (Optional 10.5° ~ 0.1°)
	Angle of View (D)	38.2° ~ 1.9° (Optional 20.7° ~ 0.4°)
	Optical Zoom	60x
	Digital Zoom	16x
	Max Aperture	F2.5 ~ F16
	Electronic Shutter	1s ~ 1/100,000s, Auto/Manual
	Min. Illumination	Color: 0.001 lux @ F2.5, B/W: 0.0001 lux
	AGC	Auto/Manual
	Defog	Smart Defog
	S/N Ratio	≥55dB
	WDR	120dB
DETECTION	Detection	12.5 ~ 750 mm: 250 ~ 15000 m 16.7 ~ 1000 mm: 334 ~ 20000 m
	Observation	12.5 ~ 750 mm: 101 ~ 6048 m 16.7 ~ 1000 mm: 135 ~ 8065 m
	Recognition	12.5 ~ 750 mm: 50 ~ 3000 m 16.7 ~ 1000 mm: 67 ~ 4000 m
	Identification	12.5 ~ 750 mm: 25 ~ 1500 m 16.7 ~ 1000 mm: 33 ~ 2000 m
VIDEO	Video Compression	Enhanced (H.265, H.264), H.265, H.264, MJPEG
	Frame Rate	Main Stream: Thermal: (1280x1204, 1280x720, 704x576) @25fps; Visible: (2592x1520, 2560x1440, 2304x1296, 1920x1080, 1280x720) @25/30fps Sub Stream: Thermal: (704x576, 352x288) @25fps; 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 ~ 8Mbps 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	64 kbps, 128 kbps
	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
	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)

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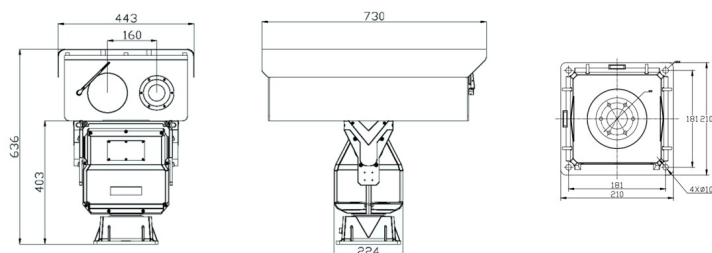
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<b>MODEL</b>	<b>Model No.</b>	<b>ENC-HHP7Z-60X-39</b>
	Type	IP DUAL SENSOR THERMAL PTZ CAMERA
<b>TEMPERATURE</b>	Detection Mode	Spot, Line, Area (Total 20 Rules - 1 Full Screen and 19 others)
	Alarm	Over/Difference Alarm
	Accuracy	±2°C / ±2%
	Response Time	≤ 30ms
	Measurement Range	-20°C ~ 150°C (-4°F ~ 302°F)
<b>INTERFACE</b>	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 128/256 Video 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	1x RJ45 10M/100M Self Adaptive Ethernet Port
	Serial Interface	1xRS485
	BNC	Supported
	Edge Storage	Micro SD Card Slot, up to 512 GB
	Alarm I/O	3 / 3
	Heater	Supported
	Fan	Supported
	Max.User	32
	Client Application	EyeGuard
<b>PAN AND TILT</b>	Pan Range	0° ~ 360° (Endless)
	Pan Speed	Pan Manual Speed: 0.01° ~ 30°/s, Pan Preset Speed: 30°/s
	Tilt Range	-45° ~ +45°
	Tilt Speed	Tilt Manual Speed: 0.01° ~ 15°/s, Tilt Preset Speed: 15°/s
	Preset Accuracy	±0.1°
	Number of Presets	400
	3D Position	Supported
	Power Off Memory	Supported
	PTZ Mode	8 Auto Scan, 12 Tour, 6 Track
	Speed Setup	Auto/Manual (0-8)
<b>GENERAL</b>	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	730 × 443 × 636 mm
Net Weight	48Kg	

Dimension Unit : mm



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►NORDEN® | IP DUAL SENSOR THERMAL PTZ CAMERA - GB - Version: 3.4

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# IP DUAL SENSOR THERMAL PTZ CAMERA



## ENC-HHP7Z-60X-39

### ORDERING INFORMATION

Part Number	Description	Standard Quantity
ENC-HHP7Z-60X-39 (With 75 mm Thermal Lens and 12.5 ~ 750 mm Visible Lens)	4MP IP Dual Sensor Temperature Detection Thermal PTZ Camera with Visible Lens of 60X Optical Zoom and Thermal Imaging Camera with 640*512 Thermal Resolution and SD Card Slot Support	1
ENC-HHP7Z-60X-39 (With 100 mm Thermal Lens and 12.5 ~ 750 mm Visible Lens)	4MP IP Dual Sensor Temperature Detection Thermal PTZ Camera with Visible Lens of 60X Optical Zoom and Thermal Imaging Camera with 640*512 Thermal Resolution and SD Card Slot Support	1
ENC-HHP7Z-60X-39 (With 75 mm Thermal Lens and 16.7 ~ 1000 mm Visible Lens)	4MP IP Dual Sensor Temperature Detection Thermal PTZ Camera with Visible Lens of 60X Optical Zoom and Thermal Imaging Camera with 640*512 Thermal Resolution and SD Card Slot Support	1
ENC-HHP7Z-60X-39 (With 100 mm Thermal Lens and 16.7 ~ 1000 mm Visible Lens)	4MP IP Dual Sensor Temperature Detection Thermal PTZ Camera with Visible Lens of 60X Optical Zoom and Thermal Imaging Camera with 640*512 Thermal Resolution and SD Card Slot Support	1

### PACKING INFORMATION

Part Number	Packing Mode	Gross weight(Kg)	Dimension(mm)
ENC-HHP7Z-60X-39	Carton Box	-	-