

# IP DUAL SENSOR THERMAL PTZ CAMERA



## ENC-HHP5Z-60X-39

### FEATURES

640x512 Uncooled VOx Micro Bolometer Detector

Sensitivity  $\leq 40\text{mK}$

75/100 mm Motorized Lens

Areas / Spot / Line Temperature Measurement Rule Support

17 Color Patterns Support

IP67



### SPECIFICATION

MODEL	Model No.	ENC-HHP5Z-60X-39
	Type	IP DUAL SENSOR THERMAL PTZ CAMERA
THERMAL CAM	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) 100 mm : 4.3°(H), 3.5°(V)
	Detection	75 mm: Human(1.8mx0.5m) - 2203 m, Vehicle(4.0mx1.5m) - 6765 m 100 mm: Human(1.8mx0.5m) - 2937 m, Vehicle(4.0mx1.5m) - 9020 m
	Recognition	75 mm: Human(1.8mx0.5m) - 551 m, Vehicle(4.0mx1.5m) - 1691 m 100 mm: Human(1.8mx0.5m) - 734m, Vehicle(4.0mx1.5m) - 2255 m
	Identification	75 mm: Human(1.8mx0.5m) - 275 m, Vehicle(4.0mx1.5m) - 846 m 100 mm: Human(1.8mx0.5m) - 367m, Vehicle(4.0mx1.5m) - 1127 m
	Fire Detection	75 mm: Fire(0.2mx0.2m) - 441 m, Fire (1.0mx1.0m) - 2206 m 100 mm: Fire(0.2mx0.2m) - 588 m, Fire (1.0mx1.0m) - 2941 m

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<b>MODEL</b>	<b>Model No.</b>	<b>ENC-HHP5Z-60X-39</b>
	<b>Type</b>	IP DUAL SENSOR THERMAL PTZ CAMERA
<b>VISIBLE CAMERA</b>	<b>Image Sensor</b>	1/1.9" Sony CMOS
	<b>Max Resolution</b>	1920 x 1080
	<b>Focal Length *</b>	12.5 ~ 750mm (16.7 ~ 1000mm optional)
	<b>Focus Control</b>	Auto/Manual
	<b>Angle of View (H)</b>	23.8° ~ 0.4° (Optional 17.9° ~ 0.3°)
	<b>Angle of View (V)</b>	14.0° ~ 0.2° (Optional 10.5° ~ 0.1°)
	<b>Angle of View (D)</b>	27.6° ~ 0.4° (Optional 20.7° ~ 0.4°)
	<b>Optical Zoom *</b>	60x
	<b>Digital Zoom</b>	16x
	<b>Max Aperture</b>	F2.5 ~ F16
	<b>Shutter Speed</b>	1s ~ 1/100,000s, Auto/Manual
	<b>Min. illumination</b>	Color:0.001 lux @ F2.5, B/W:0.0001 lux
	<b>AGC</b>	Auto/Manual
	<b>Defog</b>	Supported
<b>S/N Ratio</b>	≥55dB	
<b>WDR</b>	120dB	
<b>Wavelength</b>	850 nm	
<b>VIDEO</b>	<b>Video Compression</b>	Enhanced (H.265, H.264), H.265, H.264, MJPEG
	<b>Frame Rate</b>	Main Stream: Thermal: (704x576) @25/30fps; Visible: (1920x1080, 1280x720)@25/30fps Sub Stream: Thermal: (352x288) @25/30fps; Visible: (704x57, 640x480, 640x360, 352x288, 320x240, 176x144) @25/30fps
	<b>Stream Settings</b>	i-Frame, PAL/NTSC, Frame Rate
	<b>Bit Rate Control</b>	CBR/VBR
	<b>Bit Rate</b>	Thermal: 100Kbps ~ 8Mbps Visible: 100Kbps ~ 12Mbps
	<b>BLC</b>	Supported
	<b>OSD</b>	Up to 8 regions
	<b>OSD Type</b>	Title, Week, Date, Time, Text with different colors and adaptable sizes (Small / Medium / Big), Image overlay
	<b>ROI</b>	Up to 8 regions
	<b>Privacy Masking</b>	Up to 4 regions
<b>AUDIO</b>	<b>Audio Compression</b>	G.711A , G.711U, RAW_PCM
	<b>Audio Bitrate</b>	64 kbps, 128 kbps
	<b>Audio I/O</b>	2/2
<b>SMART</b>	<b>Behaviour Detection</b>	Thermal/Visible: Intrusion (Perimeter), Crossline (Tripwire), Double Crossline (Double Tripwire)
	<b>Intelligent Identification</b>	Thermal/Visible: Loitering, Region Entry / Exit Detection, Smoke Detection, Flame Detection, Flame Point Detection
	<b>Statistical Analysis</b>	Thermal/Visible: People Counting, Wrong Way Detection, Human and Vehicle Detection, Temperature Detection
	<b>Alarm Management</b>	Motion Detection, Tampering Alarm, Disk Full Alarm, Temperature Alarm, Input / Output Alarm, Network Alarm
<b>TEMPERATURE</b>	<b>Alarm Notification</b>	E-mail (Notification & Snapshot), HTTP (Alarm icon), FTP (Snapshot & Recording), SD Card (Recording)
	<b>Detection Mode</b>	Spot, Line, Area (Total 20 Rules - 1 Full Screen and 19 others)
	<b>Alarm</b>	Over/Difference Alarm
	<b>Accuracy</b>	±2°C / ±2%
	<b>Response Time</b>	≤ 30ms
<b>Measurement range</b>	-20°C ~ 150°C (-4°F ~ 302°F)	

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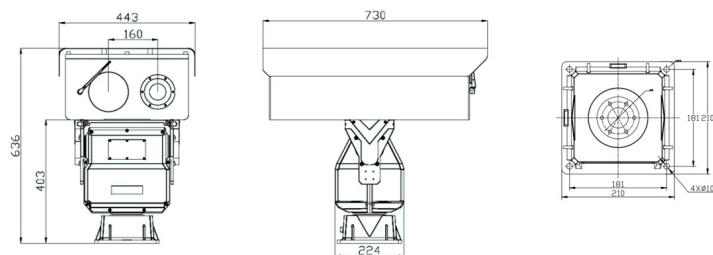
# IP DUAL SENSOR THERMAL PTZ CAMERA



## ENC-HHP5Z-60X-39

<b>MODEL</b>	<b>Model No.</b>	<b>ENC-HHP5Z-60X-39</b>
	<b>Type</b>	IP DUAL SENSOR THERMAL PTZ CAMERA
<b>INTERFACE</b>	<b>Protocols</b>	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
	<b>Security</b>	AES Video Encryption, IP Filter, User Authentication (Multiple Privilege Level), HTTPS Authentication, Digest Authentication, User Access Log
	<b>Compatibility</b>	ONVIF (Profile S, G, T), CGI/SDK
	<b>Network</b>	1x RJ45 10M/100M Self Adaptive Ethernet Port
	<b>Serial Interface</b>	1xRS485
	<b>BNC</b>	Supported
	<b>Edge Storage</b>	SD card slot, up to 512 GB
	<b>Alarm I/O</b>	3 / 3
	<b>Heater &amp; Blower</b>	Supported (Optional)
	<b>Max User access</b>	32
	<b>Client Application</b>	EyeGuard
	<b>PAN AND TILT</b>	<b>Pan Range</b>
<b>Pan Speed</b>		Pan Manual Speed: 0.01° ~ 30°/s, Pan Preset Speed: 0.01° ~ 30°/s
<b>Tilt Range</b>		-45° ~ +45°
<b>Tilt Speed</b>		Tilt Manual Speed: 0.01° ~ 15° /s, Tilt Preset Speed: 0.01° ~ 15° /s
<b>Preset Accuracy</b>		±0.1°
<b>Number of Presets</b>		400
<b>3D Position</b>		Supported
<b>Power Off Memory</b>		Supported
<b>PTZ Mode</b>		8 Auto Scan, 12 Tour, 6 Track
<b>Speed Setup</b>		Auto/Manual (0-8)
<b>GENERAL</b>	<b>Power Supply</b>	36VDC
	<b>Max. Power consumption</b>	≤150W
	<b>Working Temperature</b>	-40 °C ~ 70 °C
	<b>Working Humidity</b>	≤95% RH
	<b>Casing</b>	Metal
	<b>Ingress Protection</b>	IP67
	<b>Vandal Resistant</b>	IK10 (Housing)
	<b>Surge Protection</b>	TVS6000V
	<b>Reset Button</b>	Supported
	<b>Dimensions</b>	730 × 443 × 636mm
<b>Weight</b>	48Kg	

Dimension Unit : mm



### ORDERING INFORMATION

Part Number	Description	Standard Quantity
ENC-HHP5Z-60X-39	2MP 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

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►NORDEN® | IP DUAL SENSOR THERMAL PTZ CAMERA - GB - Version: 3.1

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# IP DUAL SENSOR THERMAL PTZ CAMERA



## ENC-HHP5Z-60X-39

### PACKING INFORMATION

Part Number	Packing Mode	Gross weight(Kg)	Dimension(mm)
ENC-HHP5Z-60X-39	Carton Box	-	-

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