

# IP TEMPERATURE DETECTION THERMAL MODULE



**ENC-STMGF-00R-32**

## FEATURES

640x512 Uncooled VOx Micro Bolometer Detector

Sensitivity  $\leq 20\text{mK}$

15mm (Optional 7/9/25/35/50/75/100 mm) Fixed Thermal Lens

IP67



## SPECIFICATION

MODEL	Model No.	ENC-STMGF-00R-32
	Type	IP TEMPERATURE DETECTION THERMAL MODULE
THERMAL CAMERA	Detector Type	Uncooled VOx Focal Plane Arrays
	Effective Pixels	640x512 and Image can be scaled up to 1280x1024
	Pixel Size	12um
	Thermal Sensitivity (NETD)	$\leq 20\text{ mK}$
	Spectral Range	8~14um
	Image Settings	Brightness, Sharpness, Contrast, 2D/3D DNR, Mirror / Flip, FFC
	Color Palettes	White & Black Hot, Ironbow, Rainbow etc. up to 17 modes
THERMAL LENS	Lens	Fixed
	Digital Zoom	16x
	Focus Control	Fixed / Motorized Focus
	Focal Length	15 mm (Optional 7/9/25/35/50 mm Fixed Focus) (25/50/75/100 mm Motorized Focus)
	F No	F1.0
	Angle of View	7 mm: 63.0° (H), 38.0° (V), 9 mm: 48.0°(H), 38.0°(V), 15 mm: 29.0°(H), 23.0°(V), 25 mm: 17.0°(H), 14.0°(V), 35 mm: 12.0°(H), 10.0°(V), 50 mm: 8.0°(H), 7.0°(V), 75 mm: 6.0°(H), 5.0°(V), 100 mm: 4.3°(H), 3.5°(V)
	Detection★	7 mm: Human (1.8mx0.5m) - 292 m, Vehicle (4.0mx1.5m) - 894 m 9 mm: Human (1.8mx0.5m) - 375 m, Vehicle (4.0mx1.5m) - 1150 m 15 mm: Human (1.8mx0.5m) - 625 m, Vehicle (4.0mx1.5m) - 1917 m 25 mm: Human (1.8mx0.5m) - 1042 m, Vehicle (4.0mx1.5m) - 3194 m 35 mm: Human (1.8mx0.5m) - 1458 m, Vehicle (4.0mx1.5m) - 4472 m 50 mm: Human (1.8mx0.5m) - 2083 m, Vehicle (4.0mx1.5m) - 6389 m 75 mm: Human (1.8mx0.5m) - 3125 m, Vehicle (4.0mx1.5m) - 9583 m 100 mm: Human (1.8mx0.5m) - 4167 m, Vehicle (4.0mx1.5m) - 12778 m
	Recognition★	7 mm: Human (1.8mx0.5m) - 73 m, Vehicle (4.0mx1.5m) - 224 m 9 mm: Human (1.8mx0.5m) - 94 m, Vehicle (4.0mx1.5m) - 288 m 15 mm: Human (1.8mx0.5m) - 156 m, Vehicle (4.0mx1.5m) - 479 m 25 mm: Human (1.8mx0.5m) - 260 m, Vehicle (4.0mx1.5m) - 799 m 35 mm: Human (1.8mx0.5m) - 365 m, Vehicle (4.0mx1.5m) - 1118 m 50 mm: Human (1.8mx0.5m) - 521 m, Vehicle (4.0mx1.5m) - 1597 m 75 mm: Human (1.8mx0.5m) - 781 m, Vehicle (4.0mx1.5m) - 2396 m 100 mm: Human (1.8mx0.5m) - 1042 m, Vehicle (4.0mx1.5m) - 3194 m
	Identification★	7 mm: Human (1.8mx0.5m) - 36 m, Vehicle (4.0mx1.5m) - 112 m 9 mm: Human (1.8mx0.5m) - 47 m, Vehicle (4.0mx1.5m) - 144 m 15 mm: Human (1.8mx0.5m) - 78 m, Vehicle (4.0mx1.5m) - 240 m 25 mm: Human (1.8mx0.5m) - 130 m, Vehicle (4.0mx1.5m) - 399 m 35 mm: Human (1.8mx0.5m) - 182 m, Vehicle (4.0mx1.5m) - 559 m 50 mm: Human (1.8mx0.5m) - 260 m, Vehicle (4.0mx1.5m) - 799 m 75 mm: Human (1.8mx0.5m) - 391 m, Vehicle (4.0mx1.5m) - 1198 m 100 mm: Human (1.8mx0.5m) - 521 m, Vehicle (4.0mx1.5m) - 1597 m
	Fire Detection★	7 mm: Fire (0.2mx0.2m) - 58 m, Fire (1.0mx1.0m) - 292 m 9 mm: Fire (0.2mx0.2m) - 75 m, Fire (1.0mx1.0m) - 375 m 15 mm: Fire (0.2mx0.2m) - 125 m, Fire (1.0mx1.0m) - 625 m 25 mm: Fire (0.2mx0.2m) - 208 m, Fire (1.0mx1.0m) - 1042 m 35 mm: Fire (0.2mx0.2m) - 292 m, Fire (1.0mx1.0m) - 1458 m 50 mm: Fire (0.2mx0.2m) - 417 m, Fire (1.0mx1.0m) - 2083 m 75 mm: Fire (0.2mx0.2m) - 625 m, Fire (1.0mx1.0m) - 3125 m 100 mm: Fire(0.2mx0.2m) - 833 m, Fire(1.0mx1.0m) - 4167 m

★Product specification and availability are subject to change without notice.

★The detection ranges may vary in different conditions. Product performance is based on testing in a controlled environment. Results may vary due to several external and environmental factors

# IP TEMPERATURE DETECTION THERMAL MODULE



## ENC-STMGF-00R-32

<b>MODEL</b>	<b>Model No.</b>	<b>ENC-STMGF-00R-32</b>	
	Type	IP TEMPERATURE DETECTION THERMAL MODULE	
<b>VIDEO</b>	Video Compression	Enhanced (H.265,H.264), H.265, H.264	
	Frame Rate	Main Stream: (1280×1024, 1280×720, 640×512) @ 25fps Sub Stream: (704×576, 352×288) @ 25fps	
	Video Bit Rate	100Kbps ~ 8Mbps	
	Bit Rate Type	CBR, VBR	
	OSD	Up to 8 regions	
	OSD Type	Title, Week, Date, Time, Text with different colors and adaptable sizes (Small / Medium / Big), Image overlay	
	Privacy Masking	Up to 4 regions	
<b>AUDIO</b>	Audio Compression	G.711A, G.711U, RAW_PCM	
	Audio Bitrate	64 kbps, 128 kbps	
	Audio I/O	1/1	
<b>SMART</b>	Behaviour Detection	Intrusion (Perimeter), Crossline (Tripwire), Double Crossline (Double Tripwire)	
	Intelligent Identification	Loitering, Region Entry/Exit Detection, Flame Point Detection, Smoking Detection,	
	Statistical Analysis	People Counting, Wrong Way Detection, Human and Vehicle Detection, Temperature Detection	
	Alarm Management	Motion Detection, Input & Output Event, Network Alarm, Disk Alarm, Abnormal Audio Alarm, Pre/Post Alarm Recording, Alarm Recording/Snapshot	
	Alarm Notification	E-mail (Notification and Snapshot), HTTP (Alarm Icon), FTP (Snapshot and Recording), SD Card (Recording)	
<b>TEMPERATURE</b>	Detection Mode	Spot, Line, Area (Total 20 Rules - 1 Full Screen and 19 others)	
	Alarm	Over/Difference Alarm, Threshold Alarm, Section 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, SRTP IGMP V2/V3, 802.1x, QoS, Unicast, Multicast, SNMP, ARP, SSL / TLS 1.2	
	Security	AES 128/256 Video Encryption, IP Filter, Secure Boot, Signed Firmware, User Authentication (Multiple Privilege Level), 802.1X Authentication (EAP-T HTTPS Authentication, RTSP Authentication, Digest Authentication, Prevent Brute-Force Attack, User Access Log, AES 128/256 SD Card Encryption,	
	Compatibility	ONVIF (Profile S, G, T, M), CGI/SDK	
	Network	1x RJ45 10M/100M Self Adaptive Ethernet Port	
	Serial Interface	1xRS485, 1xRS232	
	Edge Storage	Micro SD Card Slot, Up to 1TB	
	Alarm I/O	1 / 1	
	Remote Connection	≤10	
	Max. User	32	
	Web Language	15	
	Client Application	EyeGuard	
	<b>GENERAL</b>	Power Supply	12V DC
		Max. Power consumption	≤5 W
Working Temperature		-40 °C ~ 60 °C	
Working Humidity		≤95% RH	
Casing		Metal	
Surge Protection		TVS4000V	
Reset Button		Supported	
Dimensions		52 × 52 × 70 mm (without lens) 7 mm: 52 × 52 × 84.0 mm (Fixed Focus Lens) 9/15 mm: 52 × 52 × 81.9 mm (Fixed Focus Lens) 25/35 mm: 52 × 52 × 97.9 mm (Fixed Focus Lens) 25 mm: 52 × 52 × 127.9 mm (Motorized Focus Lens) 50 mm: 52 × 52 × 116.9 mm (Fixed Focus Lens) 50 mm: 52 × 52 × 134.4 mm (Motorized Focus Lens) 75 mm: 52 × 52 × 164.9 mm (Motorized Focus Lens) 100 mm: 52 × 52 × 193.4 mm (Motorized Focus Lens)	
Weight		0.2 kg	

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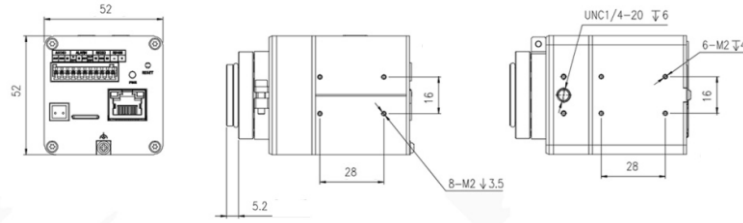
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## ENC-STMGF-00R-32

Dimension Unit : mm



### ORDERING INFORMATION

Part Number	Description	Standard Quantity
ENC-STMGF-00R-32 (With 7 mm Fixed Focus Thermal Lens)	IP Temperature Detection Thermal Module with 640*512 Thermal Resolution 7 mm Fixed Thermal Lens and SD Card Slot Support	1
ENC-STMGF-00R-32 (With 15 mm Fixed Focus Thermal Lens)	IP Temperature Detection Thermal Module with 640*512 Thermal Resolution 9 mm Fixed Thermal Lens and SD Card Slot Support	1
ENC-STMGF-00R-32 (With 9 mm Fixed Focus Thermal Lens)	IP Temperature Detection Thermal Module with 640*512 Thermal Resolution 15 mm Fixed Thermal Lens and SD Card Slot Support	1
ENC-STMGF-00R-32 (With 25 mm Fixed Focus Thermal Lens)	IP Temperature Detection Thermal Module with 640*512 Thermal Resolution 25 mm Fixed Thermal Lens and SD Card Slot Support	1
ENC-STMGF-00R-32 (With 25 mm Motorized Focus Thermal Lens)	IP Temperature Detection Thermal Module with 640*512 Thermal Resolution 25 mm Fixed Thermal Lens and SD Card Slot Support	1
ENC-STMGF-00R-32 (With 35 mm Fixed Focus Thermal Lens)	IP Temperature Detection Thermal Module with 640*512 Thermal Resolution 35 mm Fixed Thermal Lens and SD Card Slot Support	1
ENC-STMGF-00R-32 (With 50 mm Fixed Focus Thermal Lens)	IP Temperature Detection Thermal Module with 640*512 Thermal Resolution 50 mm Fixed Thermal Lens and SD Card Slot Support	1
ENC-STMGF-00R-32 (With 50 mm Motorized Focus Thermal Lens)	IP Temperature Detection Thermal Module with 640*512 Thermal Resolution 50 mm Fixed Thermal Lens and SD Card Slot Support	1
ENC-STMGF-00R-32 (With 75 mm Motorized Focus Thermal Lens)	IP Temperature Detection Thermal Module with 640*512 Thermal Resolution 75 mm Fixed Thermal Lens and SD Card Slot Support	1
ENC-STMGF-00R-32 (With 100 mm Motorized Focus Thermal Lens)	IP Temperature Detection Thermal Module with 640*512 Thermal Resolution 100 mm Fixed Thermal Lens and SD Card Slot Support	1

### PACKING INFORMATION

Part Number	Packing Mode	Gross weight(Kg)	Dimension(mm)
ENC-STMGF-00R-32	Carton Box	-	-

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