

### TVGP-M01-0402-TUR-G TruVision 4MP, H.265+, Smart IP Turret Camera, 40 m IR, 2.8 to 12 mm lens, grey

#### **Overview**

The TruVision M-series IP turret cameras leverages the latest H.265+ video compression technology to bring state of-the-art, high-definition pictures to the mass video surveillance market. With video resolutions from 2 Megapixel to 4K, these IP cameras represent a flexible video surveillance device to meet any need. Equipped with advanced technology and signal processing capability, they effectively capture video under challenging conditions.

The cameras go above and beyond standard motion detection with enhanced alarm capabilities, including cross line detection, intrusion detection and face detection features. With its smart person/vehicle feature the camera can ignore irrelevant motion or VCA events which will automatically lead to less storage consumption and faster retrieval of relevant video events.

TruVision cameras utilize H.265+ and/or H.264 compression technology with triple-streaming capability, making it easy to manage the camera's bandwidth usage. Recording to a local MicroSD card (not included) protects data in the event of network disruptions.



#### **Details**

- Maximum resolution: 4MP (2688 x 1520)
- Motorized zoom lens 2.8 to 12 mm
- Person/vehicle classification
- Video intelligence: intrusion detection, cross line detection, face detection
- Up to 40 m IR illumination
- H.265+ compression
- ONVIF Profile G, S, T open standards
- · Edge recording up to 256 GB SDHC card

# TVGP-M01-0402-TUR-G TruVision 4MP, H.265+, Smart IP Turret Camera, 40 m IR, 2.8 to 12 mm lens, grey

### **Technical specifications**

Technology	IP
Video standard	NTSC, PAL
Image settings	Hallway View, Mirror, ROI (Region Of Interest)
Privacy masking	Yes
Video output	BNC Composite PAL / NTSC
Software compatibility	Milestone XProtect, OnGuard, TruVision Navigator, TVRmobile, Web Browser
Camera	
Sensor size	1/3"
Max. resolution	4 MP
Sensor scan	Progressive
Sensor type	CMOS
Shutter time	1/3 to 1/100,000 s
Lighting performan	ce
WDR type	True WDR
WDR	120 dB
Digital noise reduction	3D DNR
Day/night	True Day/Night
Motorized IR cut filter	Yes
Color sensitivity	Color: 0.005 Lux $@$ (F1.6, AGC ON), 0 Lux with IR on
Infrared (IR)	Yes
IR range	Up to 40 m
IR wavelength	850 nm
Encoding	
Video streams	3
Main stream	H.264, H.265, H.265+
compression	
Sub stream compression	H.264, H.265, MJPEG
Third stream	H.264, H.265
compression	
Video bit rate	32 to 8 Mbps
Main stream resolutions	1280 x 720 (XVGA), 1920 x 1080 (1080p), 2688 x 1520
Sub stream resolutions	640 x 360 (nHD), 640 x 480 (VGA)
Third stream resolutions	1280 x 720 (XVGA), 640 x 360 (nHD), 640 x 480 (VGA)
Max. resolution @ fps	2688 x 1520 @ 25/30 fps
Lens	
Lens type	Varifocal motorized
Focal length	2.8 to 12 mm, horizontal FoV 95.8° to 29.2°, vertical FoV 50.6° to 16.4°, diagonal FoV 114.6°
	to 33.4°
f-stop	F1 6
f-stop Auto iris	F1.6
f-stop Auto iris Auto focus	F1.6 No Yes

output amplitude: 3.3 Vpp, output impedance: 100 Ω         Alarm I/O       Alarm inputs       1         Alarm outputs       1 (max. 12 VDC, 30 mA)       Alarm I/O connection         Alarm I/O connection       Terminal block       Storage         Local storage type       Built-in Micro SD/SDHC/SDXC card slot         Max. SD card capacity       256 GB         Video intelligence       Alarm trigger         Alarm trigger       HDD error, HDD full, Invalid login, IP address conflict, Motion detection, Network disconnected, Video tampering         ROI       Support 1 fixed region for main stream and substream         Video analytics       Advanced motion detection, Face detection, Intrusion detection, Line crossing detection, Motion detection	Network	
Supported network protocols         802.1x, Bonjour, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPP6E, QoS, RTCP, RTP, RTSP, SMTP, SNMP, TCP/IP, UPNP           Audio         G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, MP3           Audio in         1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ           Audio out         1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω           Alarm I/O         Alarm outputs         1 (max. 12 VDC, 30 mA)           Alarm l/O connection         Terminal block           Storage         Exercise           Local storage type         Built-in Micro SD/SDHC/SDXC card slot           Max. SD card capacity         256 GB           Video intelligence         HDD error, HDD full, Invalid login, IP address conflict, Motion detection, Network disconnected, Video tampering           ROI         Support 1 fixed region for main stream and sub- stream           Video analytics         Advanced motion detection, Face detection, Intrusion detection           Intustion detection         Person/vehicle detection on motion, line crossing and intrusion detection           Physical         Ø138.3 × 126 mm Ø5.4 × 5.0 in.           Physical dimensions         Ø138.3 × 126 mm Ø5.4 × 5.0 in.           Net weight         830 g 1.8 lb.           Shipping weight         1115 g 2.5 lb.	Network interface	
protocols       HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, SNMP, TCP/IP, UPNP         Audio       Audio compression         G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, MP3         Audio in       1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ         Audio out       1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω         Alarm I/O       Alarm outputs         Alarm outputs       1 (max. 12 VDC, 30 mA)         Alarm I/O connection       Terminal block         Storage       E         Local storage type       Built-in Micro SD/SDHC/SDXC card slot         Max. SD card capacity       256 GB         Video intelligence       HDD error, HDD full, Invalid login, IP address conflict, Motion detection, Network disconnected, Video tampering         ROI       Support 1 fixed region for main stream and sub- stream         Video analytics       Advanced motion detection, Face detection, Intrusion detection         Intrusion detection       Ine crossing detection, and intrusion detection         Power consumption       max. 11.5 W         Physical       Ø138.3 × 126 mm Ø5.4 × 5.0 in.         Net weight       830 g 1.8 lb.         Shipping weight       1115 g 2.5 lb.	Integration	ONVIF Profile G, ONVIF Profile S, ONVIF Profile T
Audio compression       G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, MP3         Audio in       1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ         Audio out       1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω         Alarm I/O       Alarm inputs         Alarm outputs       1 (max. 12 VDC, 30 mA)         Alarm I/O connection       Terminal block         Storage       Eccal storage type         Local storage type       Built-in Micro SD/SDHC/SDXC card slot         Max. SD card capacity       256 GB         Video intelligence       Max. SD card capacity         Alarm trigger       HDD error, HDD full, Invalid login, IP address conflict, Motion detection, Network disconnected, Video tampering         ROI       Support 1 fixed region for main stream and substream         Video analytics       Advanced motion detection, Face detection, Motion detection         Intrusion detection       Person/vehicle detection on motion, line crossing and intrusion detection         Power consumption       max. 11.5 W         Physical       Ø138.3 × 126 mm         Physical dimensions       Ø138.3 × 126 mm         Stage       1.8 lb.         Shipping weight       1.15 g         2.5 lb.       Colour       Grey		HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS,
MP3         Audio in       1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ         Audio out       1 output (line out), two-core terminal block, max output amplitude: 3.3 Vpp, output impedance: 100 Ω         Alarm I/O       Alarm outputs         Alarm outputs       1 (max. 12 VDC, 30 mA)         Alarm I/O connection       Terminal block         Storage       Eccal storage type         Local storage type       Built-in Micro SD/SDHC/SDXC card slot         Max. SD card capacity       256 GB         Video intelligence       Alarm trigger         Alarm trigger       HDD error, HDD full, Invalid login, IP address conflict, Motion detection, Network disconnected, Video tampering         ROI       Support 1 fixed region for main stream and substream         Video analytics       Advanced motion detection, Face detection, Intrusion detection         Intelligence options       Person/vehicle detection on motion, line crossing and intrusion detection         Electrical       Operating voltage       12 VDC, 1 A, PoE: (802.3af, 36 to 57 V), 0.4 to 0.3 A         Power consumption       max. 11.5 W       Physical dimensions         Physical dimensions       Ø138.3 × 126 mm         Ø5.4 × 5.0 in.       Net weight       830 g         1.8 lb.       Shipping weight       1115 g	Audio	
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alarm I/O         Alarm inputs         Alarm outputs         1         Alarm outputs         1         Alarm outputs         1         Marm I/O connection         Terminal block         Storage         Local storage type         Built-in Micro SD/SDHC/SDXC card slot         Max. SD card capacity         256 GB         Video intelligence         Alarm trigger         HDD error, HDD full, Invalid login, IP address conflict, Motion detection, Network disconnected, Video tampering         ROI       Support 1 fixed region for main stream and substream         Video analytics       Advanced motion detection, Face detection, Intrusion detection         Intelligence options       Person/vehicle detection on motion, line crossing and intrusion detection         Intelligence options       Person/vehicle detection         Operating voltage       12 VDC, 1 A, PoE: (802.3af, 36 to 57 V), 0.4 to 0.3 A         Power consumption       max. 11.5 W <td>Audio in</td> <td>input amplitude: 3.3 Vpp, input impedance: 4.7</td>	Audio in	input amplitude: 3.3 Vpp, input impedance: 4.7
Alarm inputs       1         Alarm outputs       1 (max. 12 VDC, 30 mA)         Alarm I/O connection       Terminal block         Storage       Elocal storage type         Local storage type       Built-in Micro SD/SDHC/SDXC card slot         Max. SD card capacity       256 GB         Video intelligence       Alarm trigger         Alarm trigger       HDD error, HDD full, Invalid login, IP address conflict, Motion detection, Network disconnected, Video tampering         ROI       Support 1 fixed region for main stream and substream         Video analytics       Advanced motion detection, Face detection, Intrusion detection         Intelligence options       Person/vehicle detection on motion, line crossing and intrusion detection         Electrical       Operating voltage       12 VDC, 1 A, PoE: (802.3af, 36 to 57 V), 0.4 to 0.3 A         Power consumption       max. 11.5 W         Physical dimensions       Ø138.3 × 126 mm Ø5.4 × 5.0 in.         Net weight       830 g         1.8 lb.       Shipping weight         Shipping weight       1115 g         2.5 lb.       Colour       Grey	Audio out	
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Storage         Local storage type       Built-in Micro SD/SDHC/SDXC card slot         Max. SD card capacity       256 GB         Video intelligence       Alarm trigger         Alarm trigger       HDD error, HDD full, Invalid login, IP address conflict, Motion detection, Network disconnected, Video tampering         ROI       Support 1 fixed region for main stream and substream         Video analytics       Advanced motion detection, Face detection, Intrusion detection         Intelligence options       Person/vehicle detection on motion, line crossing and intrusion detection         Electrical       Operating voltage         Operating voltage       12 VDC, 1 A, PoE: (802.3af, 36 to 57 V), 0.4 to 0.3 A         Power consumption       max. 11.5 W         Physical dimensions       Ø138.3 × 126 mm 05.4 × 5.0 in.         Net weight       830 g         1.8 lb.       Shipping weight         Shipping weight       1115 g         2.5 lb.       Colour         Colour       Grey	Alarm outputs	1 (max. 12 VDC, 30 mA)
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conflict, Motion detection, Network         disconnected, Video tampering         ROI       Support 1 fixed region for main stream and sub- stream         Video analytics       Advanced motion detection, Face detection, Intrusion detection, Line crossing detection, Motion detection         Intelligence options       Person/vehicle detection on motion, line crossing and intrusion detection         Electrical       0         Operating voltage       12 VDC, 1 A, PoE: (802.3af, 36 to 57 V), 0.4 to 0.3 A         Power consumption       max. 11.5 W         Physical       Ø138.3 × 126 mm Ø5.4 × 5.0 in.         Net weight       830 g 1.8 lb.         Shipping weight       1115 g 2.5 lb.         Colour       Grey	Video intelligence	
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Intrusion detection, Line crossing detection, Motion detection         Intelligence options       Person/vehicle detection on motion, line crossing and intrusion detection         Electrical       0         Operating voltage       12 VDC, 1 A, PoE: (802.3af, 36 to 57 V), 0.4 to 0.3 A         Power consumption       max. 11.5 W         Physical $\emptyset$ 138.3 × 126 mm $\emptyset$ 5.4 × 5.0 in.         Net weight       830 g 1.8 lb.         Shipping weight       1115 g 2.5 lb.         Colour       Grey	ROI	
and intrusion detection         Electrical         Operating voltage       12 VDC, 1 A, PoE: (802.3af, 36 to 57 V), 0.4 to $0.3 A$ 0.3 A         Power consumption       max. 11.5 W         Physical         Physical dimensions       Ø138.3 × 126 mm $Ø5.4 × 5.0$ in.       Ø138.3 × 126 mm         Net weight       830 g         1.8 lb.       Shipping weight         1115 g       2.5 lb.         Colour       Grey	Video analytics	Intrusion detection, Line crossing detection,
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0.3  A Power consumption max. 11.5 W Physical Physical dimensions Ø138.3 × 126 mm Ø5.4 × 5.0 in. Net weight 830 g 1.8 lb. Shipping weight 1115 g 2.5 lb. Colour Grey	Electrical	
Physical         Physical dimensions       Ø138.3 × 126 mm         Ø5.4 × 5.0 in.         Net weight       830 g         1.8 lb.         Shipping weight       1115 g         2.5 lb.         Colour       Grey	Operating voltage	
Physical dimensions     Ø138.3 × 126 mm       Ø5.4 × 5.0 in.       Net weight       830 g       1.8 lb.       Shipping weight       1115 g       2.5 lb.       Colour       Grey	Power consumption	max. 11.5 W
Ø5.4 × 5.0 in.           Net weight         830 g           1.8 lb.           Shipping weight         1115 g           2.5 lb.           Colour         Grey	Physical	
1.8 lb.       Shipping weight       1115 g       2.5 lb.       Colour       Grey	Physical dimensions	
2.5 lb.       Colour     Grey	Net weight	-
	Shipping weight	-
Form Factor Turret	Colour	Grey
	Form Factor	Turret

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#### Environmental

Vandal proof	Yes
Impact rating	IK10
Environment	Outdoor
Operating temperature	-30 to +60°C -22 to +140°F
Relative humidity	<95% noncondensing
IP rating	IP67
Regulatory	

Compliancy CE, FCC, REACH, RoHS, UL, WEEE









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