

GVI-ATX0840TH6 (8MP - 40X) GVISION BISPECTRAL EXPLOSION PROOF TVCC CAMERA



La **GVI-ATX0840TH6** è una telecamera antideflagrante di ultima generazione che integra tecnologia visiva e termica in un unico dispositivo, offrendo una visione superiore in ambienti complessi e pericolosi. Progettata per operare in condizioni ambientali difficili, questa telecamera garantisce rilevamento preciso attraverso l'imaging termico e una capacità avanzata di riconoscimento grazie alla componente visiva. Realizzata in acciaio inossidabile altamente resistente, è la soluzione ideale per applicazioni in settori critici come petrolio e gas, industria chimica e manifatturiera ed è certificata **II 2 G Ex db IIC T6 Gb, Ex tb IIIC T80° C Db**

Caratteristiche Principali:

- Acciaio inossidabile 316L, certificata EX II 2 G Ex db IIC T6 Gb, Ex tb IIIC T80°C Db
- Grado di protezione IP68
- Conforme ONVIF VMS GeoVision e altri VMS in commercio
- Risoluzione massima: 8MP (3840×2160), zoom ottico 40x, zoom digitale 16x
- Imaging termica intelligente con risoluzione 640×480
- Funzione intelligente di velocità variabile, regolazione automatica della velocità PTZ in base alla profondità di campo
- Menu OSD integrato, interfaccia intuitiva e facile da usare
- Rotazione continua orizzontale a 360° e verticale ±90° con auto-flip
- Accessori opzionali: ventola, riscaldamento automatico, spray pulizia vetro ottico.
- Adatto per ambienti estremi con gas o polveri esplosive, come quelli dell'industria petrolchimica, offshore, marina, stoccaggio carburanti, stazioni di servizio etc.



Specifiche

Camera	Image Sensor	1/1.8" Progressive Scan CMOS
	Minimum Illumination	Color:0.0005 Lux @ (F1.8, AGC ON); B/W:0.0001Lux @ (F1.8, AGC ON)
	Shutter	1/25s to 1/100,000s; Support delayed shutter
	Noise ratio	≥52dB
	Aperture	PIRIS
	Day/Night Switch	ICR cut filter
Lens	Focal Length	6.4~256mm, 40x Optical Zoom
	Aperture Range	F1.35-F4.6
	Horizontal Field of View	59-1.98° (wide-tele)
	Minimum Working Distance	100mm-1500mm (wide-tele)
	Zoom Speed	Approximately 4.5s(optical, wide-tele)
Compression Standard	Video Compression	H.265 / H.264
	H.265 Type	Main Profile
	H.264 Type	BaseLine Profile / Main Profile / High Profile
	Video Bitrate	32 Kbps~16Mbps
	Audio Compression	G.711a/G.711u/G.722.1/G.726/MP2L2/AAC/PCM
	Audio Bitrate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/16-64Kbps(AAC)
Image Maximum Resolution: 3840×2160)	Main Stream	50Hz: 25fps (3840×2160, 1920 × 1080, 1280 × 960, 1280 × 720); 60Hz: 30fps (3840×2160, 1920 × 1080, 1280 × 960, 1280 × 720)
	Third Stream	50Hz: 25fps (704 × 576); 60Hz: 30fps (704 × 576)
	Image Settings	Saturation, Brightness, Contrast and Sharpness can be adjusted via the client-side or browser
	BLC	Support
	Exposure Mode	AE / Aperture Priority / Shutter Priority / Manual Exposure
	Focus Mode	Auto Focus / One Focus / Manual Focus / Semi-Auto Focus
	Area Exposure / Focus	Support
	Defog	Support
	Day/Night Switch	Automatic, manual, timing, alarm trigger
	3D Noise Reduction	Support
	Picture Overlay Switch	Support BMP 24-bit image overlay, customizable area
	Region of Interest	Support three streams and four fixed areas
Network	Storage Function	Support micro SD / SDHC / SDXC card (256g) offline local storage, NAS (NFS, SMB / CIFS support)
	Protocols	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,RTP,RTSP,RTCP,NTP,SMTP,SNMP,IPV6

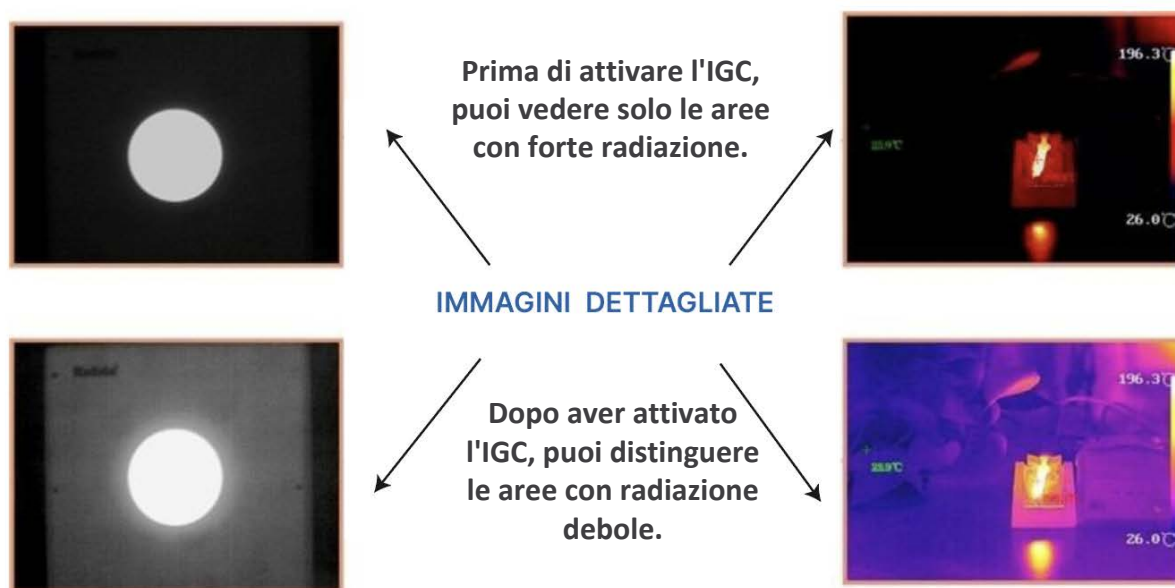
	Interface Protocol	ONVIF(PROFILE S,PROFILE G)
Intelligent Calculation	Intelligent Calculation	0.8T
Interface	External Interface	36pin FFC (Network port, RS485, RS232, CVBS, SDHC, Alarm In/Out Line In/Out, power)

Specifiche Immagini Termiche

- Eccellente qualità dell'immagine

Risoluzione 640×480

Algoritmo di controllo intelligente del guadagno (IGC), miglioramento dei dettagli digitali (DHE), riduzione del rumore 3D, 10 colori falsi regolabili



- Misurazione accurata della temperatura

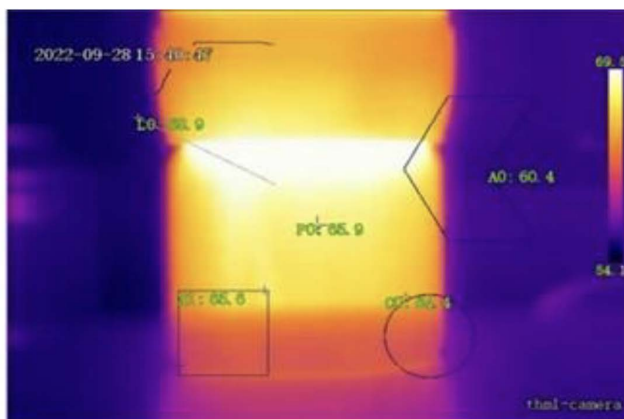
Posizionamento incrociato della temperatura più alta a schermo intero

Supporta 1 linea di misurazione della temperatura, 9 aree rettangolari, 10 punti di misurazione della temperatura, 2 aree irregolari, 2 aree circolari

Intervallo di misurazione della temperatura: -20°C. 150°C.; estendibile a 20°C. 350°C./550°C.

Precisione della misurazione della temperatura: $\pm 2^{\circ}\text{C}$. o $\pm 2\%$ della lettura (si applica il valore maggiore)

- Configura più regole per misurare la temperatura e impostare soglie di allarme per aree specifiche.
- Carica immediatamente gli avvisi di sfondo quando la temperatura nell'area definita dalla regola supera la soglia



○ **Allarmi anomali**

Supporta 1 ingresso di allarme e 1 uscita di allarme.

○ **Integrazione :**

Disponibile kit di sviluppo SDK e conforme ONVIF per un'integrazione massima con terze parti.

○ **Scenari applicabili:**

Viene utilizzato nell'industria energetica, nei centri di smaltimento chimico, nei magazzini di materiali combustibili, negli impianti petrolchimici, nelle miniere di carbone e in altri siti industriali per monitorare in tempo reale la temperatura di punti critici e prevenire eventi pericolosi.

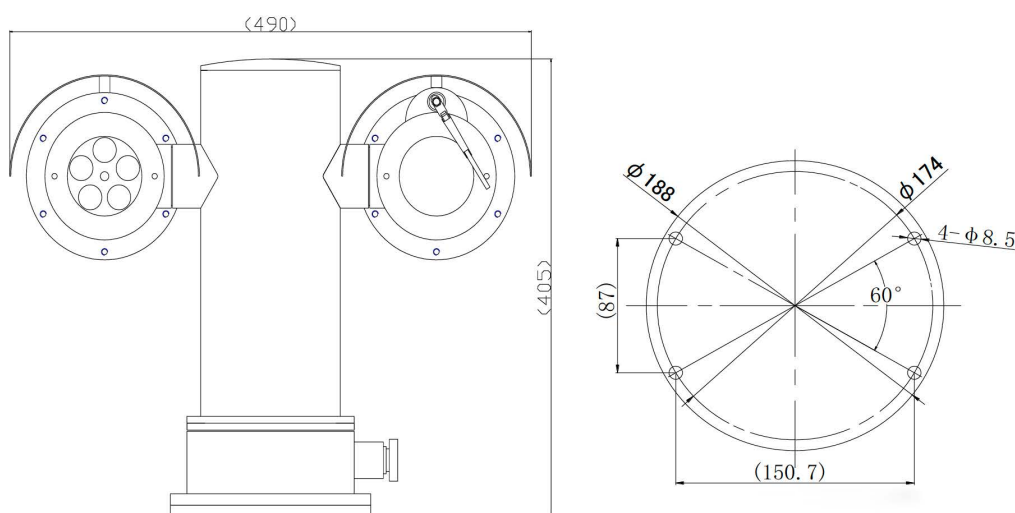
Product name	640 resolution thermal imaging network module
Detector	
Type	Uncooled focal plane infrared detectors
Image resolution	640×480
Cell size	17μm
Noise equivalent temperature difference NETD	≤50mK @ 25°C
Response bands	8 ~ 14μm
Package type	Ceramic package
Non-thermalized prime lens	8 / 15 / 25 / 35 / 50 mm
Focusing method	Manual focusing
Field of view	68.4°×54°/39.9°×30.4°/24.6°×18.5°/ 17.8°×13°/12.4°×9.3°/
F-number	1.0
Recognize the distance	60 / 110 / 180 / 240 / 370M

(1.8 m tall human body)	
Identification distance (vehicle)	180 / 340 / 560 / 730 / 1130M
Internet	
Ethernet type	100Mbps
Network protocols	IPV4, HTTP, FTP, RTSP, RTCP, RTP, TCP, UDP
Concurrent access	6-way
Safe mode	Authorized users and passwords
Access criteria	Support ONVIF, GB/T28181, compatible with mainstream factory monitoring platforms
Image processing	
Digital video	H.264
Main stream image	720×576, 25Hz
Boot screen	INFRARED/NEUTRAL (Customizable)
Boot time	10s
Image processing	Non-uniformity correction, intelligent gain control
Image enhancement	Digital detail blending enhancement, 3D noise reduction
Palette	Support 10 color palettes such as black hot, white hot, iron red, rainbow / customizable
Image mirroring	Left and right, up and down, center
Function	
Fire point detection	Support fire point detection
Abnormal temperature alarm	Support temperature anomaly alarm
Temperature measurement function	Full-screen positioning of the highest and lowest temperatures
	Highest temperature cross positioning
	Support 1 line, 9 boxes, 10 points, 2 irregular areas, 2 elliptical areas for temperature measurement
	Temperature measurement range: -20°C~150°C, support -20°C~350°C/550°C extension
	Temperature measurement accuracy: ±2°C or ±2% (whichever is greater)
	Support reflection temperature, atmospheric temperature setting, target distance correction, support emissivity correction
Alarm	IP conflict, linkage alarm function
Data interface	
Compress data	H264 video, standard JPEG image
System integration	
Communication interfaces	RJ45, network transmission
	Analog video CVBS
	1 x RS232, 1 x RS485
PTZ control	Pelco-D protocol, RS-485 interface
Alarm input/output	1 alarm input/1 alarm output

Specifiche PTZ (Pan-Tilt-Zoom)

Modello	GVI-ATX0840TH6 (8MP - 40X)
Grado di protezione IP	IP68 T80°C
Tensione di ingresso	AC220V-AC240V
Materiale	Acciaio inossidabile 316L
Temperatura/Umidità di lavoro	-20°C ~ +60°C, ≤90%RH
Intervallo di rotazione orizzontale (Pan)	360° continuous
Intervallo di inclinazione verticale (Tilt)	-90°~+90°
Velocità di rotazione orizzontale (Pan)	Configurable, from 0.1°/S~45°/S
Velocità di inclinazione verticale (Tilt)	Configurable, from 0.1°/S~45°/S
Azione di parcheggio	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan//Frame Scan/Panorama Scan
Preset setting	256
Visualizzazione della posizione PTZ	ON/OFF
Consumo energetico	Max:50w
Dimensione	200 L×490 W×400 H mm
Peso	27kg
Imballaggio	Scatola di cartone con EPE all'interno

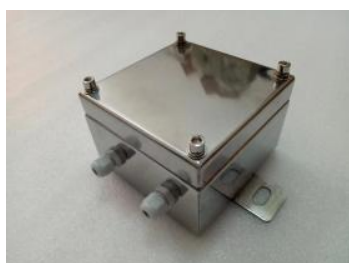
Dimensioni



Pack



Accessori



Scatola di giunzione



Tubo flessibile

Info Ordine

Codice Prodotto	Nome Prodotto
SKU#GVI-ATX0840-101	IP camera system
SKU#Junctionbox-100	Junction box
SKU#pipe-1m-100	flexible pipe 1m
SKU#pipe-2m-101	flexible pipe 2m

GVI-ATX0840TH6 (8MP - 40X) GVISION BISPECTRAL EXPLOSION PROOF TVCC CAMERA



The **GVI-ATX0840TH6** is a next-generation explosion-proof camera that integrates visual and thermal technology into a single device, delivering superior imaging in complex and hazardous environments. Designed to operate in challenging environmental conditions, this camera ensures precise detection through thermal imaging and advanced recognition capabilities thanks to its visual component. Built with highly durable stainless steel, it is the ideal solution for critical applications in industries such as oil and gas, chemical, and manufacturing, where safety and robustness are paramount and **it is certified II 2 G Ex db IIC T6 Gb, Ex tb IIIC T80°C Db.**

Main features:

- Stainless steel 316L, Certified EX II 2 GEx db IIC T6 Gb, Ex tb IIIC T80°C Db.
- Certified IP68
- Compliant with ONVIF, GeoVision VMS, and other commercial VMS systems
- Maximum resolution 8MP (3840×2160), 40x optical zoom, 16x digital zoom
- Intelligent thermal imaging with a resolution of 640×480
- Intelligent variable speed function, automatic PTZ speed adjustment based on depth of field
- Built-in OSD menu, intuitive and user-friendly interface
- Continuous 360° horizontal rotation and ±90° vertical tilt with auto-flip
- Optional accessories include fan, automatic heating, and optical glass cleaning spray
- Suitable for extreme environments with explosive gases or dust, such as those in petrochemical, offshore, marine, fuel storage, and gas station industries



Camera Specification:

Camera	Image Sensor	1/1.8" Progressive Scan CMOS
	Minimum Illumination	Color:0.0005Lux@ (F1.8, AGC ON); B/W:0.0001Lux @ (F1.8, AGC ON)
	Shutter	1/25s to 1/100,000s; Support delayed shutter
	Noise ratio	≥52dB
	Aperture	PIRIS
	Day/Night Switch	ICR cut filter
Lens	Focal Length	6.4~256mm, 40x Optical Zoom
	Aperture Range	F1.35-F4.6
	Horizontal Field of View	59-1.98° (wide-tele)
	Minimum Working Distance	100mm-1500mm (wide-tele)
	Zoom Speed	Approximately 4.5s(optical, wide-tele)
Compression Standard	Video Compression	H.265 / H.264
	H.265 Type	Main Profile
	H.264 Type	BaseLine Profile / Main Profile / High Profile
	Video Bitrate	32 Kbps~16Mbps
	Audio Compression	G.711a/G.711u/G.722.1/G.726/MP2L2/AAC/PCM
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	Third Stream	50Hz: 25fps (704 × 576); 60Hz: 30fps (704 × 576)
	Image Settings	Saturation, Brightness, Contrast and Sharpness can be adjusted via the client-side or browser
	BLC	Support
	Exposure Mode	AE / Aperture Priority / Shutter Priority / Manual Exposure
	Focus Mode	Auto Focus / One Focus / Manual Focus / Semi-Auto Focus
	Area Exposure / Focus	Support
	Defog	Support
	Day/Night Switch	Automatic, manual, timing, alarm trigger
	3D Noise Reduction	Support
	Picture Overlay Switch	Support BMP 24-bit image overlay, customizable area
	Region of Interest	Support three streams and four fixed areas
Network	Storage Function	Support micro SD / SDHC / SDXC card (256g) offline local storage, NAS (NFS, SMB / CIFS support)
	Protocols	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,RTP,RTSP,RTCP,NTP,SMTP,SNMP,IPV6

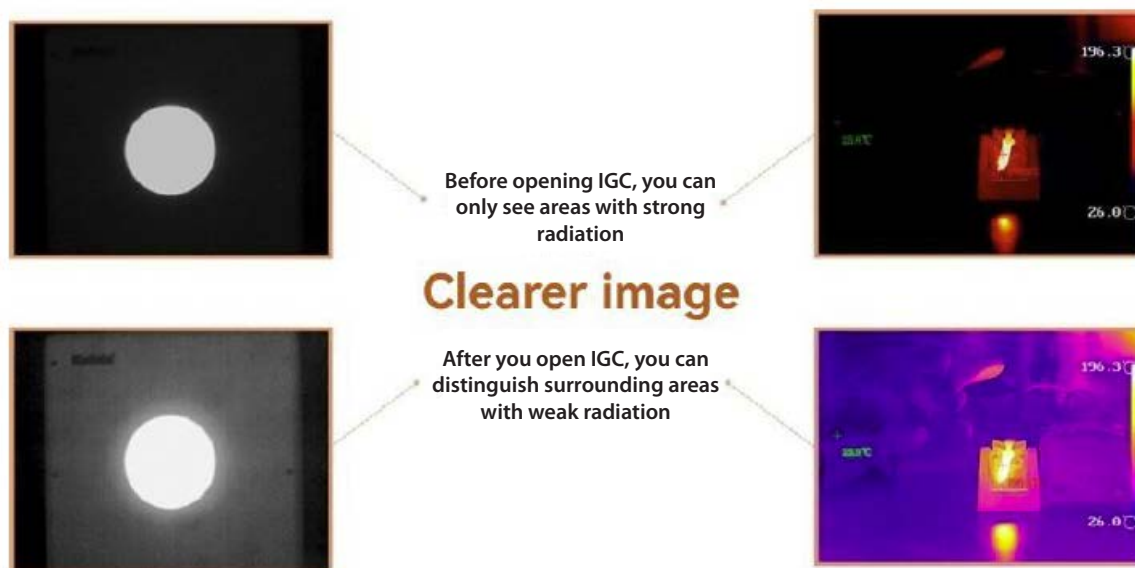
	Interface Protocol	ONVIF(PROFILE S,PROFILE G)
Intelligent Calculation	Intelligent Calculation	0.8T
Interface	External Interface	36pin FFC (Network port, RS485, RS232, CVBS, SDHC, Alarm In/Out Line In/Out, power)

Thermal Imaging Specification

- Excellent image effect

640×480 Resolution

Intelligent Gain Control Algorithm (IGC), Digital Detail Blend Enhancement (DHE), 3D Noise Reduction, 10 False Color Adjustable



- Accurate temperature measurement

Full screen highest temperature cross positioning

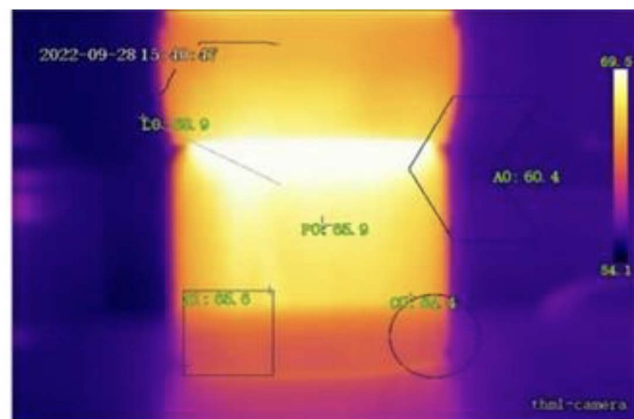
Support 1 line temperature measurement, 9 box temperature measurement, 10 point temperature measurement, 2 irregular areas, 2 circular areas

Temperature measurement range: -20°C~150°C; Extendable 20°C~350°C/550°C

Temperature measurement accuracy: $\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of reading (whichever is greater)

- Configure multiple rules to measure temperature and set alarm thresholds for specific areas

- Upload background alerts immediately when the temperature in the rule area is above the threshold



○ Abnormal Alarms

Support 1 alarm input and 1 alarm output

○ Development Interface:

Provide SDK development kit, rich interfaces, compatible with mainstream factory monitoring platforms, convenient for secondary development and integration

○ Applicable Scenarios:

It is used in the power industry, chemical disposal centers, combustible warehouses, petrochemical plants, coal mines and other industrial sites, etc., to monitor the temperature of key locations in real time to prevent dangerous events.

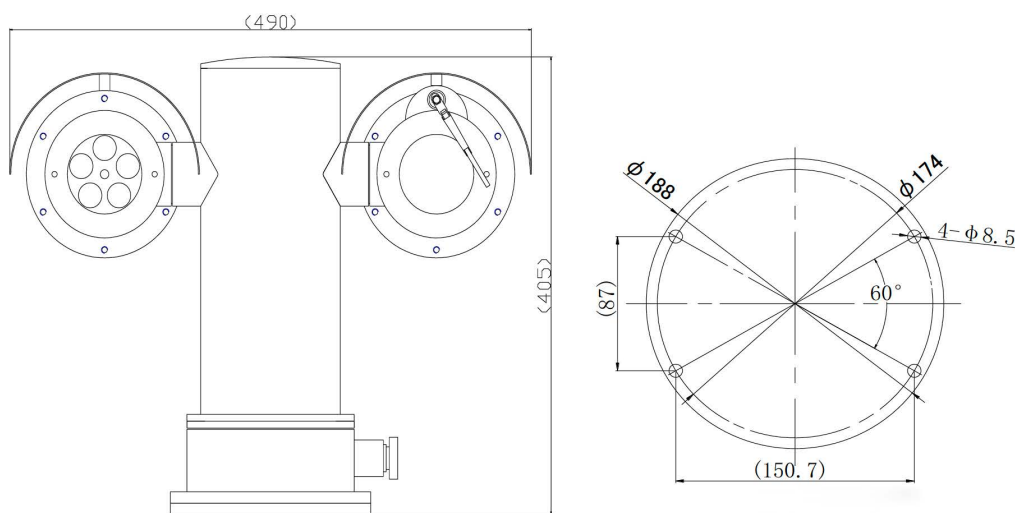
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Type	Uncooled focal plane infrared detectors
Image resolution	640×480
Cell size	17μm
Noise equivalent temperature difference NETD	≤50mK @ 25°C
Response bands	8 ~ 14μm
Package type	Ceramic package
Non-thermalized prime lens	8 / 15 / 25 / 35 / 50 mm
Focusing method	Manual focusing
Field of view	68.4°×54°/39.9°×30.4°/24.6°×18.5°/ 17.8°×13°/12.4°×9.3o/
F-number	1.0
Recognize the distance	60 / 110 / 180 / 240 / 370M

(1.8 m tall human body)	
Identification distance (vehicle)	180 / 340 / 560 / 730 / 1130M
Internet	
Ethernet type	100Mbps
Network protocols	IPV4, HTTP, FTP, RTSP, RTCP, RTP, TCP, UDP
Concurrent access	6-way
Safe mode	Authorized users and passwords
Access criteria	Support ONVIF, GB/T28181, compatible with mainstream factory monitoring platforms
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Digital video	H.264
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Alarm	IP conflict, linkage alarm function
Data interface	
Compress data	H264 video, standard JPEG image
System integration	
Communication interfaces	RJ45, network transmission
	Analog video CVBS
	1 x RS232, 1 x RS485
PTZ control	Pelco-D protocol, RS-485 interface
Alarm input/output	1 alarm input/1 alarm output

PTZ Specifications

Model	FNKZ-PTZ.HWIRTD
IP Grade	IP68 T80°C
Input Voltage	AC220V-AC240V
Material	Stainless steel 316L
Working Temperature/Humidity	-20°C ~ +60°C, ≤90%RH
Pan Range	360° continuous
Tilt Range	-90°~+90°
Pan speed	Configurable, from 0.1°/S~45°/S
Tilt speed	Configurable, from 0.1°/S~45°/S
Park Action	Preset/Pattern Scan/Patrol Scan/Auto Scan/Tilt Scan/Random Scan//Frame Scan/Panorama Scan
Preset setting	256
PTZ Position Display	ON/OFF
Power Consumption	Max:50w
Dimension	200 L×490 W×400 H mm
Weight	27kg
Packing	Carton box with EPE inside

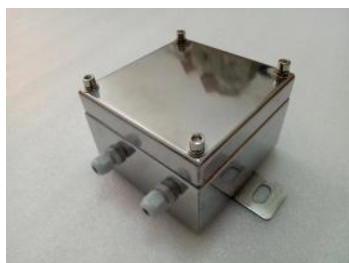
Dimension



Pack



Accessori



Scatola di giunzione



Tubo flessibile

Order Info

Product Code	Product Name
SKU#GVI-ATX0840-101	IP camera system
SKU#Junctionbox-100	Junction box
SKU#pipe-1m-100	flexible pipe 1m
SKU#pipe-2m-101	flexible pipe 2m