

GV-PT220D 2MP H.264 WDR IR Pan Tilt IP Camera



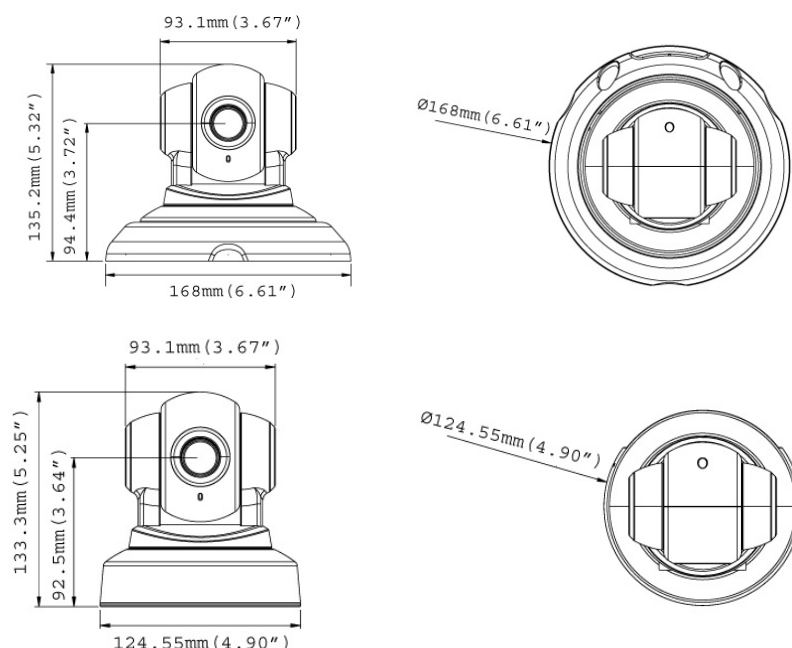
- 2 megapixel progressive scan CMOS
 - Dual streams from H.264 and MJPEG
 - Up to 30 fps at 1920 x 1080
 - Pan and tilt (Pan: -175° ~ 175°; Tilt: -45° ~ 90°)
 - Input-triggered Preset points
 - One sensor input and alarm output
 - Built-in / external microphone
 - [NAS](#) Recording
 - Recording assigned by GV-Edge Recording Manager ([Windows](#), [Mac](#) version)
 - Built-in micro SD card slot (SD/SDHC) for local storage
 - DC 12 V / AC 24 V / PoE (IEEE 802.3af)
 - Removable IR-cut filter for Day/Night function
 - Intelligent IR
 - Wide Dynamic Range (WDR)
 - 2-way audio
 - Motion detection
 - Defog
 - IP address filtering
 - Supports iPhone, iPad, Android & 3GPP
 - 31 languages on Web interface
 - ONVIF (Profile S) conformant
- * No memory card slot & local storage function for Argentina.
- * For optimal performance and compatibility, it is highly recommended to use a GV-NAS System.

Introduction

The GV-PT220D is an indoor pan and tilt camera that is designed to monitor a wide surveillance area. The camera supports remote pan and tilt control and is capable of storing pre-established panning/tilting movements and points on live view for immediate monitoring. Equipped with IR LEDs and IR-cut filter, the camera provides excellent image quality in the dark.

Overview

- Dimensions



Panel



Specifications

Camera		
Image Sensor		1/2.5" progressive scan CMOS
Picture Elements		1920 (H) x 1080 (V)
Minimum Illumination	Color	0.15 Lux
	B/W	0.10 Lux
	IR ON	0 Lux
Shutter Speed		Automatic, Manual (1/5 ~ 1/8000 sec.)
White Balance		Automatic, Manual (2800K ~ 8500K)
Gain Control		Automatic
S/N Ratio		45 dB
BLC		Yes
Lens		
Megapixel		Yes
Day/Night		Yes (with removable IR-cut filter)
Iris		Fixed
Focal Length		4.0 mm
Maximum Aperture		F/1.5
Lens Mounting		M12, Pitch 0.5 mm
Image Format		1/2.5"
Horizontal FOV		58°
Operation	Focus	Manual (w/lock)
	Zoom	Fixed
	Iris	Fixed
IR LED Quantity		10 IR LEDs
Max. IR Distance		15 m (50 ft.)
Operation		
Video Compression		H.264, MJPEG
Video Stream		Dual Streams

Operation			
Video Resolution	Main Stream	4:3	1600 x 1200, 1280 x 960, 640 x 512, 320 x 256
		16:9	1920 x 1080, 1280 x 720, 640 x 360, 448 x 252
		5:4	1280 x 1024, 640 x 512, 320 x 256
	Sub Stream	4:3	640 x 480, 320 x 240
		16:9	640 x 360, 448 x 252
		5:4	640 x 512, 320 x 256
Frame Rate		30 fps at 1920 x 1080 *The frame rate and the performance may vary depending on the number of connections and data bitrates (different scenes).	
Image Setting		Brightness, Contrast, Sharpness, Gamma, White Balance, Flicker-less, Image Orientation, Shutter Speed, D/N sensitivity, Backlight Compensation, WDR, Defog	
Audio Compression		G.711, AAC (optional)	
Audio Support		Two-Way Audio	
Sensor Input		1 Input (Dry Contact)	
Alarm Output		1 Output	
Network			
Interface		10/100 Ethernet	
Protocol		HTTP, HTTPS, TCP, UDP, SMTP, FTP, DHCP, NTP, UPnP, DynDNS, 3GPP/ISMA, RTSP, PSIA, SNMP, QoS (DSCP), ONVIF (Profile S)	
Mechanical			
Temperature Detector		Yes	
Camera Angle Adjustment	Pan	-175° ~ 175°	
	Tilt	-45° ~ 90°	
Connectors	Power	2-pin terminal block, PoE	
	Ethernet	Ethernet (10/100 Base-T), RJ-45 cable	
	Audio	1 In (Using a built-in or an externally connected microphone) 1 Out (Stereo phone jack, 3.5 mm / 0.14")	
	Local Storage	Micro SD card slot (SD/SDHC, SD version 2.0 only, Class 10) * SDXC and UHS-I card types are not supported.	
	Digital I/O	3-pin terminal block (pitch 2.5 mm / 0.1")	
LED Indicator		2 LEDs: Power and Status	
General			
Environment Temperature		0°C ~ 50°C (32°F ~ 122 °F)	
Humidity		10% to 90% (no condensation)	
Power Source		12V DC / 24V AC / PoE (IEEE 802.3af)	
Max. Power Consumption		12.5 W (max. 1.25A at 12V DC)	
Regulatory		CE, FCC, C-Tick, RoHS compliant	
Dimensions	With mounting base and cover	167.75 x 166.78 x 135.2 mm (6.6" x 6.57" x 5.32")	
	Without mounting base and cover	124.55 x 122.73 x 133.3 mm (4.9" x 4.83" x 5.25")	
Weight		440 g (0.97 lb)	
Regulatory		CE, FCC, RCM, RoHS compliant	
Power over Ethernet			
PoE Standard		PoE (IEEE 802.3af Power over Ethernet / PD)	
PoE Power Supply Type		End-Span	
PoE Power Output		Per Port 48V DC, 350mA. Max. 15.4 watts	
Web Interface			
Installation Management		Web-based configuration	
Maintenance		Firmware upgrade through Web Browser or Utility	
Access from Web Browser		Camera live view, video recording, change video quality, bandwidth control, image snapshot, audio, Picture in Picture, Picture and Picture, Text Overlay	
Language		Arabic / Bulgarian / Czech / Danish / Dutch / English / Finnish / French / German / Greek / Hebrew / Hungarian / Indonesian / Italian /Japanese / Lithuanian / Norwegian / Persian / Polish / Portuguese / Romanian / Russian / Serbian / Simplified Chinese / Slovakian / Slovenian / Spanish / Swedish / Thai / Traditional Chinese / Turkish	

Applications

Network Storage	GV-System (GV-DVR/NVR), GV-Backup Center, GV-Recording Server, GV-VMS
Smart Device Access	GV-Eye for iOS and Android
Live Viewing	IE, mobile phone
CMS Server support	GV-Center V2, GV-Vital Sign Monitor, GV-Control Center

Note:

- Specifications are subject to change without notice.
- Mind the following when using an inserted memory card for recording:
 - Recorded data on the memory card can be damaged or lost if the data are accessed while the camera is under physical shock, power interruption, memory card detachment or when the memory card reaches the end of its lifespan. No guarantee is provided for such causes.
 - The stored data can be lost if the memory card is not accessed for a long period of time. Back up your data periodically if you seldom access the memory card.
 - Memory cards are expendable and their durability varies according to the conditions of the installed site and how they are used. Back up your data regularly and replace the memory card annually.
 - To avoid power outage, it is highly suggested to apply a battery backup (UPS).
 - For better performance, it is highly suggested to use Micro SD card of MLC NAND flash, Class 10.
 - Replace the memory card when its read/write speed is lower than 6 MB/s or when the memory card is frequently undetected by the camera.

Packing List

- | | |
|-----------------------|--------------------------------------|
| 1. PT Camera | 9. Terminal Block x 1 |
| 2. Mounting Base | 10. Washer x 3 |
| 3. Mounting Cover | 11. Power Adapter |
| 4. Wall Mount Bracket | 12. GV-IPCAM H.264 Quick Start Guide |
| 5. Screw Anchor x 3 | 13. GV-IPCAM H.264 Software DVD |
| 6. Long Screw x 3 | 14. GV-NVR Software DVD |
| 7. Short Screw x 3 | 15. GV-NVR Quick Start Guide |
| 8. Round Screw x 3 | |

Note: The power adapter can be excluded upon request.

Accessories

Name	Details
GV-PA191 PoE Adapter 	Weight: 130 g (0.29 lb) Dimensions (H x W x D): 43 x 69 x 40 mm (1.69" x 2.72" x 1.57")
GV-Relay V2 	The GV-Relay V2 is designed to expand the voltage load of GV IP devices. It provides 4 relay outputs, and each can be set as normally open (NO) or normally closed (NC) independently as per your requirement.
Power Adapter	Power adapters are available in 4 regions: U.S.A., Australia, U.K and Europe.
GV-POE Switch	The GV-POE Switch is designed to provide power along with network connection for IP devices. The GV-POE Switch is available in various models with different numbers and types of ports.