

GC-ICPO PTZ Cameras

Quick Start Guide

GC-ICPO-S440-X

GC-ICPO-S437-L

GC-ICPO-S840-X

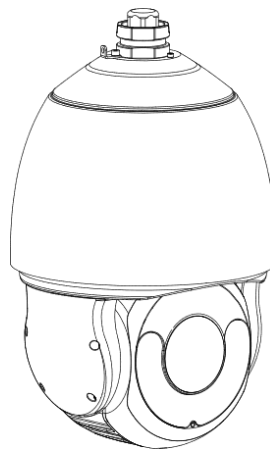
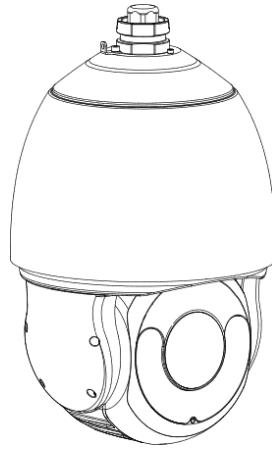


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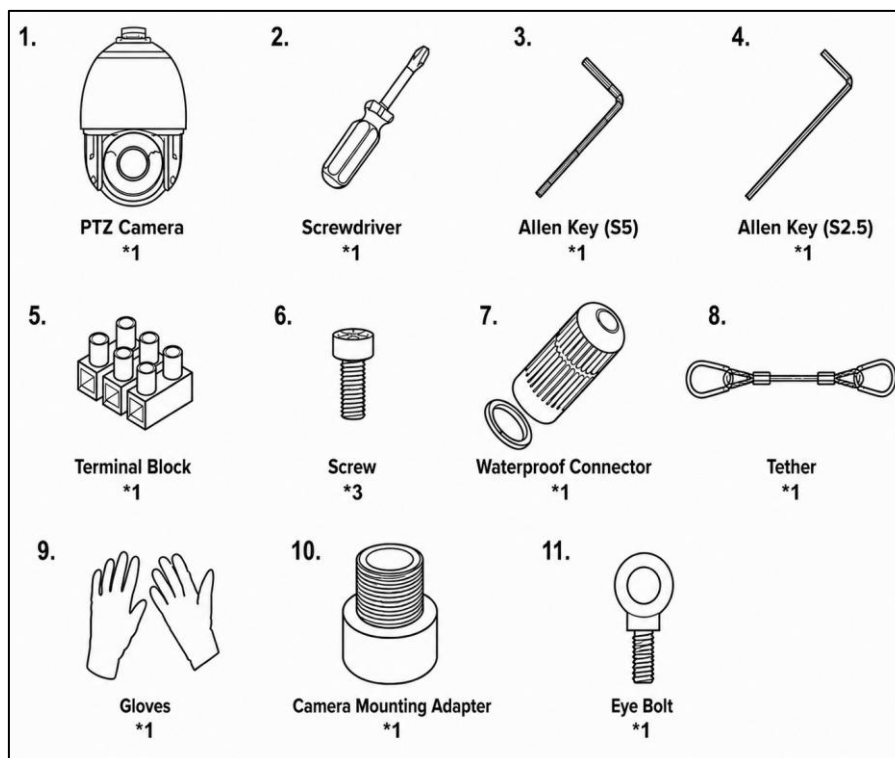
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Product Overview

This guide provides basic installation, mounting, power, and initial setup instructions for GC-ICPO cameras.



What's in the Box



Note: Actual mounting option accessories may vary by model.

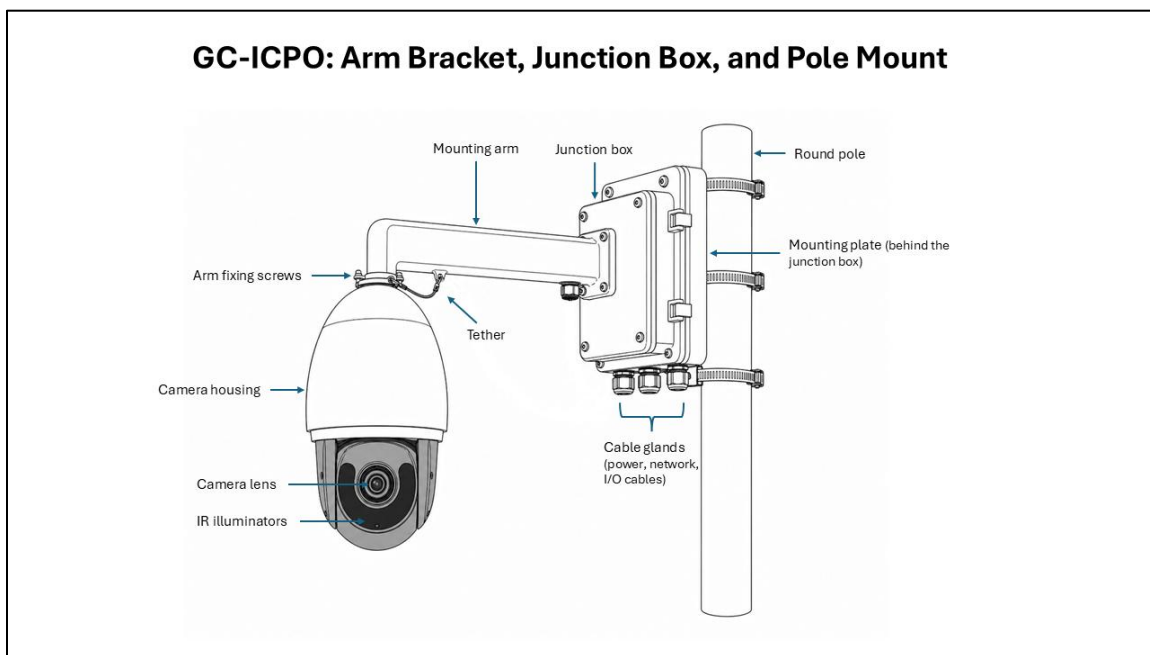
Installation

Mounting Preparation

- Select a stable mounting location
- Confirm a clear line of sight
- Verify the mounting surface or structure can support at least 4x the combined weight of the camera and mount
- For pole installations, use a pole with a 3.5–4.5" minimum outside diameter
- Ensure pole or structure is securely anchored
- Identify mounting type before starting
- Plan cable route before installation

Mounting Options

a. 3-piece Mount: Arm, Junction Box, and Pole Mount



Camera Installation

- Attach camera to arm
 - Thread or fasten camera to mounting arm using the screws provided
 - Hand-tighten, then secure
 - Remove rubber gasket from rear of arm
 - Use the pre-marked "X" to cut a cable pass-through opening

- Remove side access cover (2 hex bolts)
- Route cables through arm
 - Feed cables into junction box
 - Pull sufficient slack
 - Reinstall cover and gasket after routing



- Organize cables inside junction box
- Keep wires clear of cover and gasket
- Attach tether to secure point on arm mount and verify attachment point is load-bearing

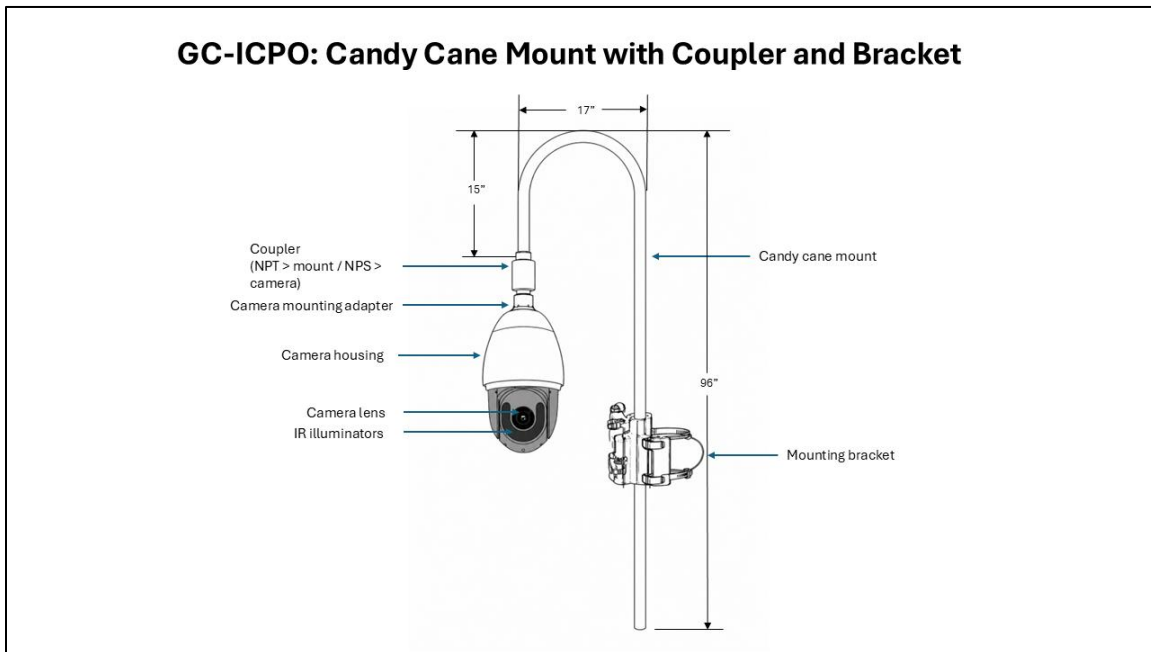
Mount Installation

- Attach the mounting plate to the junction box
 - Use flat washers on both sides of the mounting plate and include lock washers to prevent loosening
- Add clamps to mounting plate and attach to pole or structure
- Tighten band clamps or hardware evenly
- Ensure mount is level and secure
- Confirm junction box access

Verification:

- No rotation on pole
- Bracket is level
- All hardware tightened
- Junction box accessible and not obstructed

b. Candy Cane with Coupler and Mounting Bracket



Mount Installation

- Install candy cane conduit in final position
- Confirm bend orientation and camera direction
- Attach candy cane mount to bracket (if applicable)

Coupler Installation (**Critical**)

- Apply included marine-grade sealant
 - Hold nozzle in contact with threads during application
 - Apply continuous bead of sealant to male threads
 - Cover approximately the first 1/3rd of the threads
- Install Coupler
 - Thread coupler onto mounting adapter
 - Ensure correct orientation:
 - NPT end → toward mount
 - NPS end → toward camera
 - Hand-tighten fully
 - Use pipe wrench to tighten an additional 1/4 turn or more
- Thread camera onto coupler
- Tighten securely (do not over-torque)

Caution ⚠ - Improper installation (cross-threading, incomplete engagement, or insufficient tightening) can result in camera loosening, water intrusion, or equipment damage.

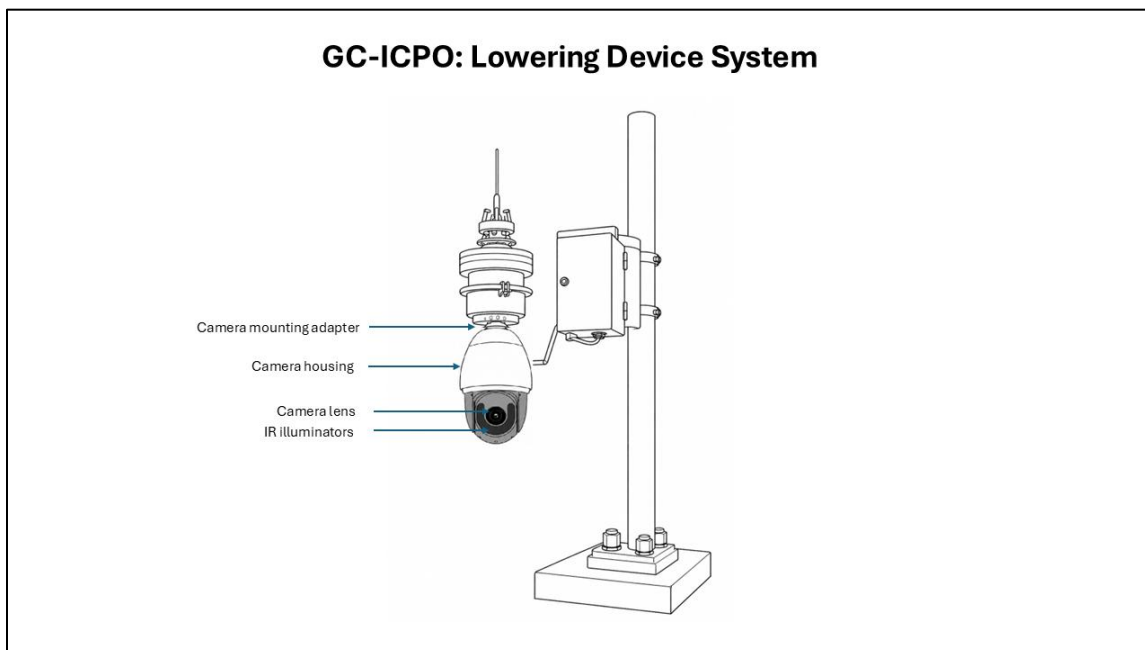
Verification:

- Full thread engagement (no visible gap)
- Threads aligned (no cross-threading)
- Camera vertical and correctly oriented
- Coupler fully seated with no looseness
- Clamp fully tightened with no movement (if applicable)
- Banding evenly tensioned

Camera Installation

- Route cables through conduit
 - Feed cables through candy cane
- Attach camera to coupler (NPS)
 - Thread camera onto coupler
 - Tighten securely
- Install camera immediately after coupler is secured
- No cure time required

c. Lowering Device System



Unused Power Lead Isolation

- Identify red and black auxiliary power leads
- Cap individually using:
 - Terminal block (preferred), or
 - Wire caps



Make and Seal Connections

- Connect power, network, and I/O
- Verify all connections are secure
- Follow coupler or gland installation requirements
- Apply thread sealant where required
- Ensure all entries are watertight
- For unused connectors
 - Cap or seal with self-fusing tape, weatherproof caps or other means to protect against moisture, dust, and corrosion

Close Junction Box

- Verify gasket is seated
- Ensure internal door is in the correct position and not obstructing closure
- Close cover
- Tighten screws evenly

Final System Check

- Camera secure and aligned
- Coupler fully engaged (if used)
- No exposed wiring
- Mount stable with no movement

- All seals complete

Powering the Camera

Standard: 36VDC DIN rail power supply and PoE adapter/injector

Alternative: 1) 24VAC power supply, 2) 36VDC power supply alone

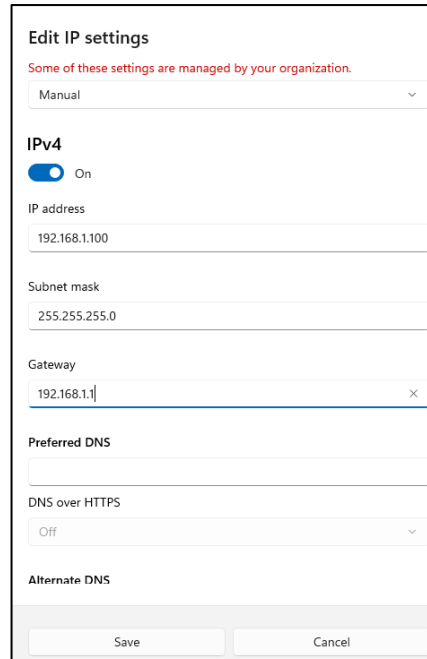
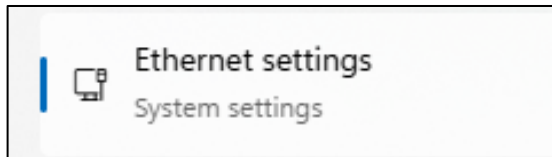
Initial Setup & Login

Login

1. Connect the camera directly to your laptop using an Ethernet cable
2. Configure the laptop Ethernet adapter with:

IP Address: 192.168.1.100

Subnet Mask: 255.255.255.0



Edit IP settings

Some of these settings are managed by your organization.

Manual

IPv4

☒ On

IP address

192.168.1.100

Subnet mask

255.255.255.0

Gateway

192.168.1.1

Preferred DNS

DNS over HTTPS

Off

Alternate DNS

Save Cancel

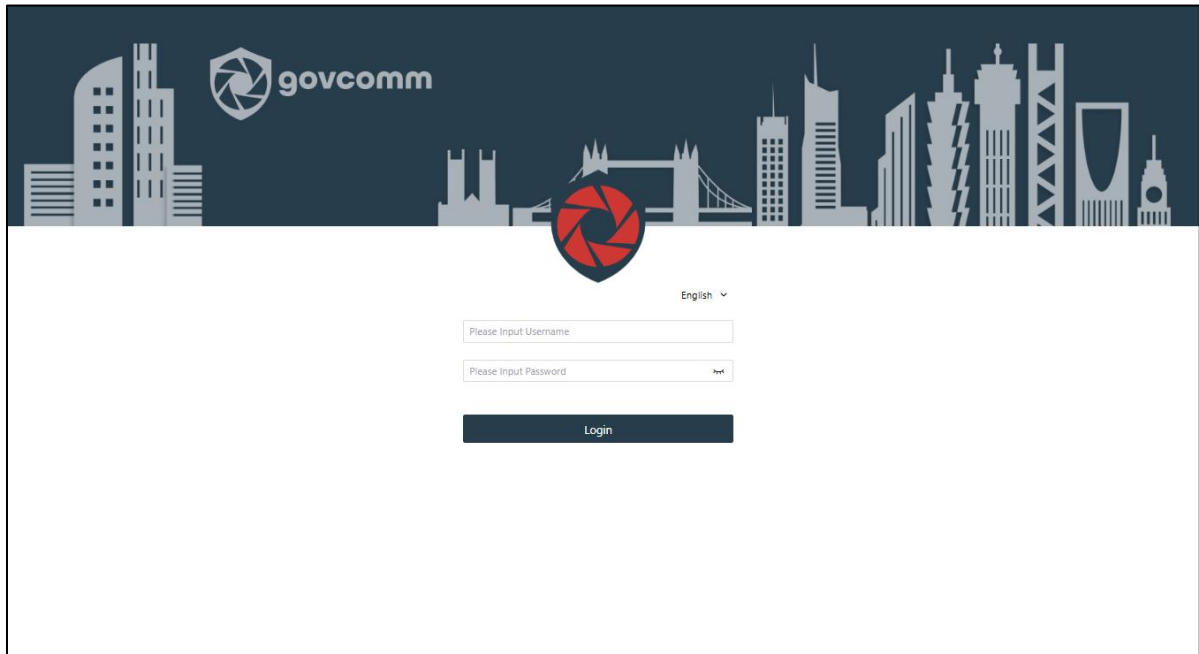
3. Open a web browser
4. Enter the camera IP into the address bar:

IP Address: 192.168.1.64

5. Log in using the following credentials:

User ID: admin

Password: GovComm1

The screenshot shows the govcomm login interface. At the top, there is a dark blue header with a city skyline silhouette and the govcomm logo. Below the header, the main content area is white. It features a language dropdown menu set to 'English'. There are two input fields: 'Please Input Username' and 'Please Input Password'. Below these fields is a dark blue 'Login' button.

Change Password

1. Click your **username** in the upper right corner and select **Change Password**.
2. Or go to **Settings > System > Change Password** and follow the prompts.

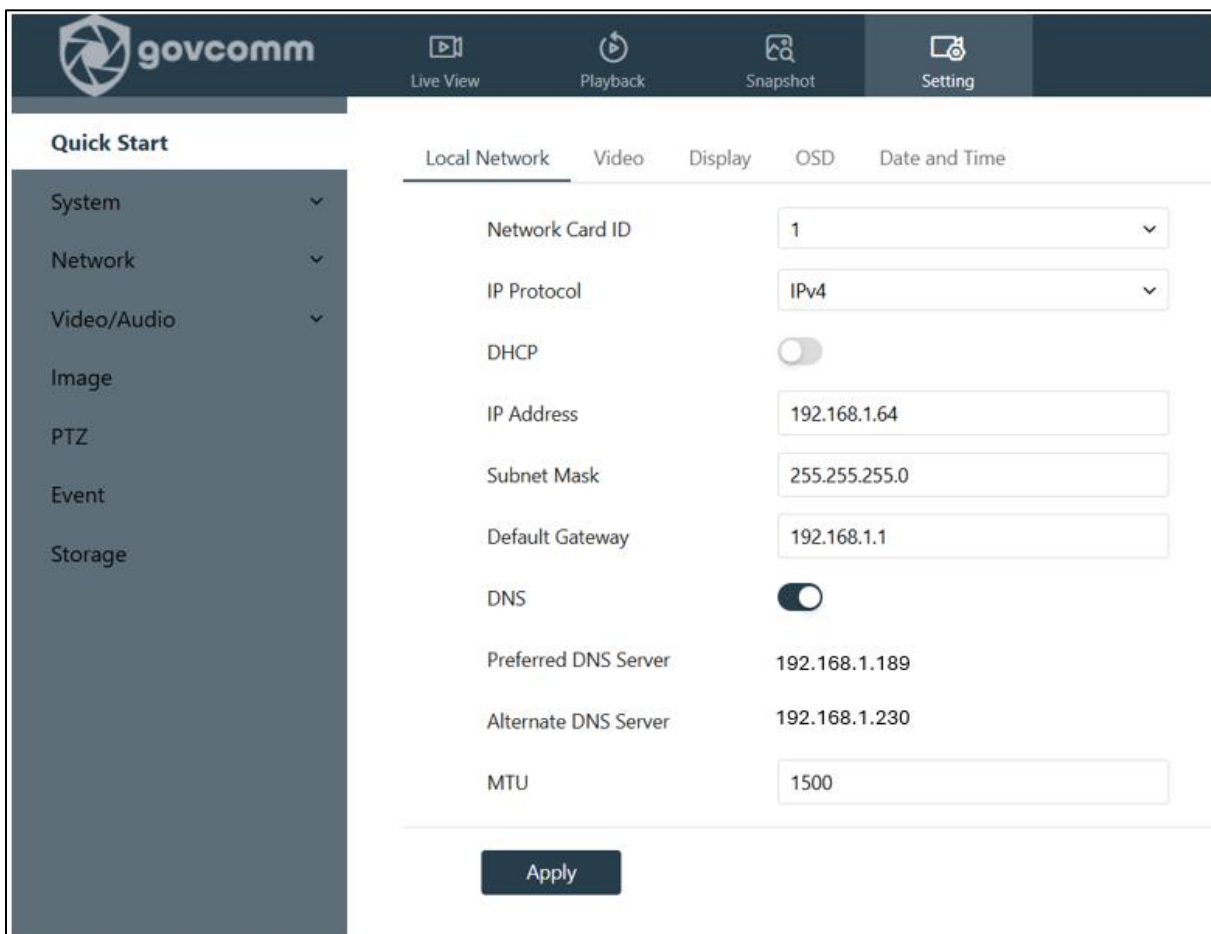
Note 📖 : After changing the password, wait approximately 3 minutes before powering off, or re-login to ensure the change is saved.

Quick Configuration

Network Setup

Setting > Quick Start > Local Network

- Configure:
 - DHCP or static IP
 - Subnet mask / gateway
 - DNS
- Apply and reconnect to new IP



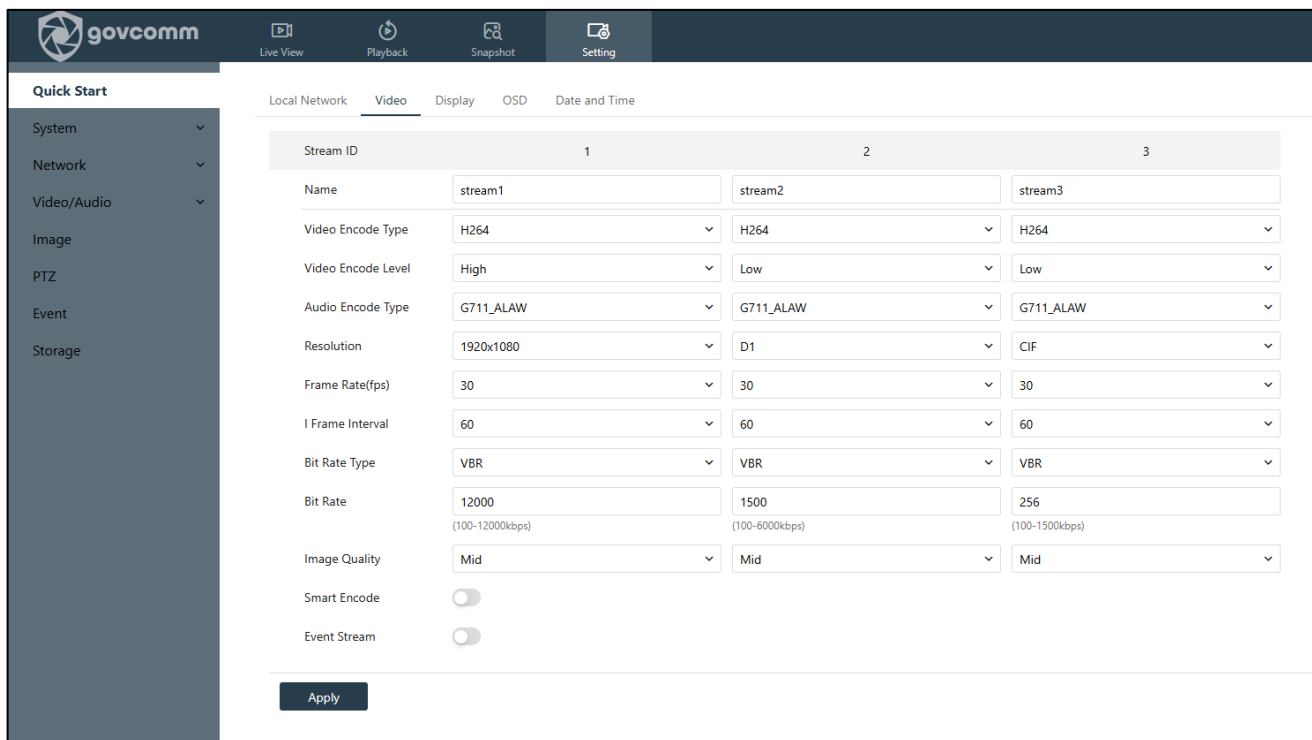
The screenshot displays the govcomm web interface. At the top, there is a navigation bar with icons for Live View, Playback, Snapshot, and Setting. Below this, a sidebar on the left lists various configuration categories: Quick Start, System, Network, Video/Audio, Image, PTZ, Event, and Storage. The main content area is titled 'Quick Start' and contains several tabs: Local Network, Video, Display, OSD, and Date and Time. The 'Local Network' tab is currently selected. It shows various network configuration fields: Network Card ID (set to 1), IP Protocol (set to IPv4), DHCP (disabled), IP Address (192.168.1.64), Subnet Mask (255.255.255.0), Default Gateway (192.168.1.1), DNS (enabled), Preferred DNS Server (192.168.1.189), Alternate DNS Server (192.168.1.230), and MTU (1500). An 'Apply' button is located at the bottom of the configuration area.

Field	Value
Network Card ID	1
IP Protocol	IPv4
DHCP	Off
IP Address	192.168.1.64
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DNS	On
Preferred DNS Server	192.168.1.189
Alternate DNS Server	192.168.1.230
MTU	1500

Video Setup

Setting > Quick Start > Video

- Configure:
 - Stream 1 (primary)
 - H.265 preferred
 - Resolution and frame rate
 - Bit rate (CBR/VBR)
- RTSP streaming is available for integration with VMS and third-party software
 - Default RTSP port is 554
- Click Apply to save settings



The screenshot shows the 'Video' configuration page in the govcomm interface. The left sidebar lists 'Quick Start' with sub-items: System, Network, Video/Audio, Image, PTZ, Event, and Storage. The main content area has tabs for 'Local Network', 'Video', 'Display', 'OSD', and 'Date and Time'. The 'Video' tab is active, showing settings for three streams (1, 2, and 3). Stream 1 is the primary stream.

Stream ID	1	2	3
Name	stream1	stream2	stream3
Video Encode Type	H264	H264	H264
Video Encode Level	High	Low	Low
Audio Encode Type	G711_ALAW	G711_ALAW	G711_ALAW
Resolution	1920x1080	D1	CIF
Frame Rate(fps)	30	30	30
I Frame Interval	60	60	60
Bit Rate Type	VBR	VBR	VBR
Bit Rate	12000 (100-12000kbps)	1500 (100-6000kbps)	256 (100-1500kbps)
Image Quality	Mid	Mid	Mid
Smart Encode	☐	☐	☐
Event Stream	☐	☐	☐

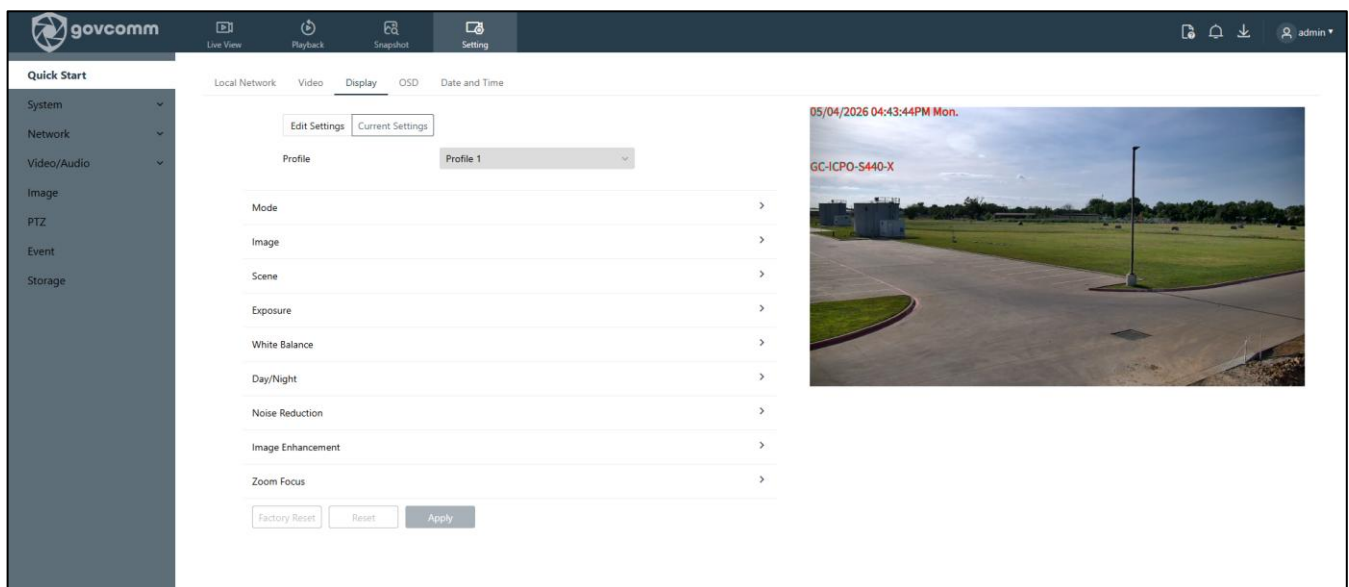
An 'Apply' button is located at the bottom left of the settings table.

Note : Video settings can remain at their factory default values unless site-specific operational requirements require adjustments.

Display Setup

Setting > Quick Start > Display

- Set:
 - Exposure = Auto
 - Day/Night = Auto
 - Brightness / contrast / sharpness
 - WDR / noise reduction as needed
- Click Apply to save settings



Note : Display settings can remain at their factory default values unless site-specific operational requirements require adjustments.

On-Screen Display (OSD)

Setting > Quick Start > OSD

- Enable
 - Device name
 - Time
 - Customized content
- Click Apply to save the settings

The screenshot displays the 'govcomm' OSD configuration interface. On the left, a sidebar lists navigation options: Quick Start, System, Network, Video/Audio, Image, PTZ, Event, and Storage. The 'Quick Start' section is expanded, showing 'Local Network', 'Video', 'Display', 'OSD', and 'Date and Time' tabs. The 'OSD' tab is selected, revealing 'Settings' and 'Advanced' sub-sections.

Settings:

- ☒ Align Left Time
- ☒ Align Left Status Display of Focus
- ☒ Align Left Device Name
- ☐ Align Left
- ☐ Align Left
- ☒ Align Left PTZ Position
- ☒ Align Left PTZ Action
- ☒ Align Left PTZ Temperature

Advanced:

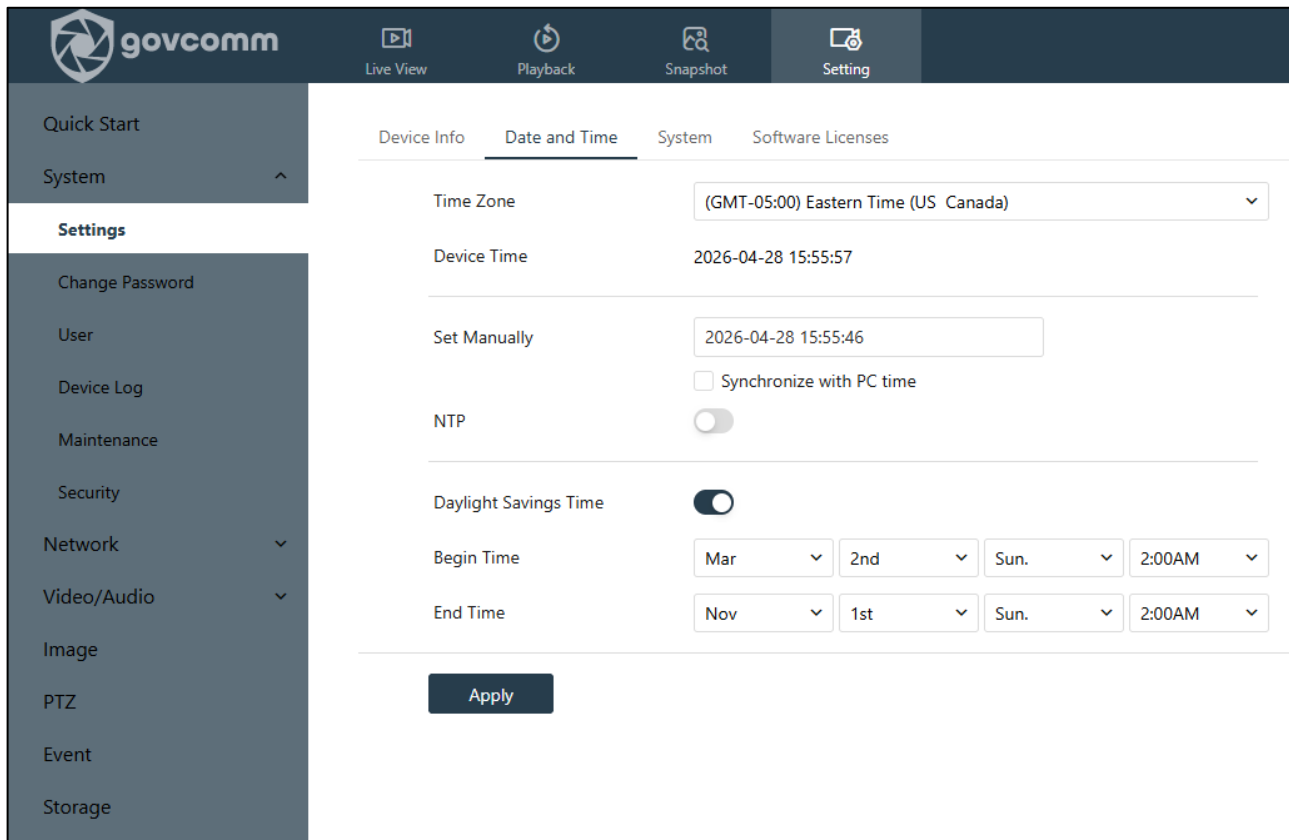
- Time Format: MM/DD/YYYY hh:mm:ss ww
- Font Color: Red
- Font Size: Mid
- Font Transparency: Opaque
- Font On Lighted Back: ☐
- Device Name: ☐
- PTZ Position: ☐
- PTZ Action: ☐
- PTZ Temperature: ☐
- Status Display of Focus: ☐
- Twelve-Hour System: ☐
- Display Week: ☐

An 'Apply' button is located at the bottom left. A preview window on the right shows a live video feed of a parking lot with the configured OSD elements overlaid in red text.

Date and Time

Settings > Quick Start > Date and Time

- Configure
 - Time zone and Daylight-Saving Time (DST)
 - Date and time (manual or synchronized)
 - Network Time Protocol (NTP) server settings
- Clicks Apply to save settings



The screenshot displays the govcomm web interface. The top navigation bar includes icons for Live View, Playback, Snapshot, and Setting. The left sidebar shows a menu with 'Quick Start' and 'System' expanded, revealing 'Settings' and various configuration options like Change Password, User, Device Log, Maintenance, Security, Network, Video/Audio, Image, PTZ, Event, and Storage. The main content area is titled 'Date and Time' and contains the following settings:

- Time Zone:** A dropdown menu showing '(GMT-05:00) Eastern Time (US Canada)'.
- Device Time:** A text field displaying '2026-04-28 15:55:57'.
- Set Manually:** A text field showing '2026-04-28 15:55:46' and an unchecked checkbox for 'Synchronize with PC time'.
- NTP:** A toggle switch that is currently turned off.
- Daylight Savings Time:** A toggle switch that is currently turned on.
- Begin Time:** Four dropdown menus showing 'Mar', '2nd', 'Sun.', and '2:00AM'.
- End Time:** Four dropdown menus showing 'Nov', '1st', 'Sun.', and '2:00AM'.

An 'Apply' button is located at the bottom of the settings section.

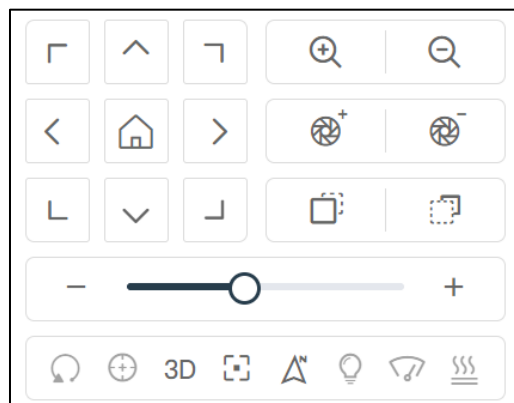
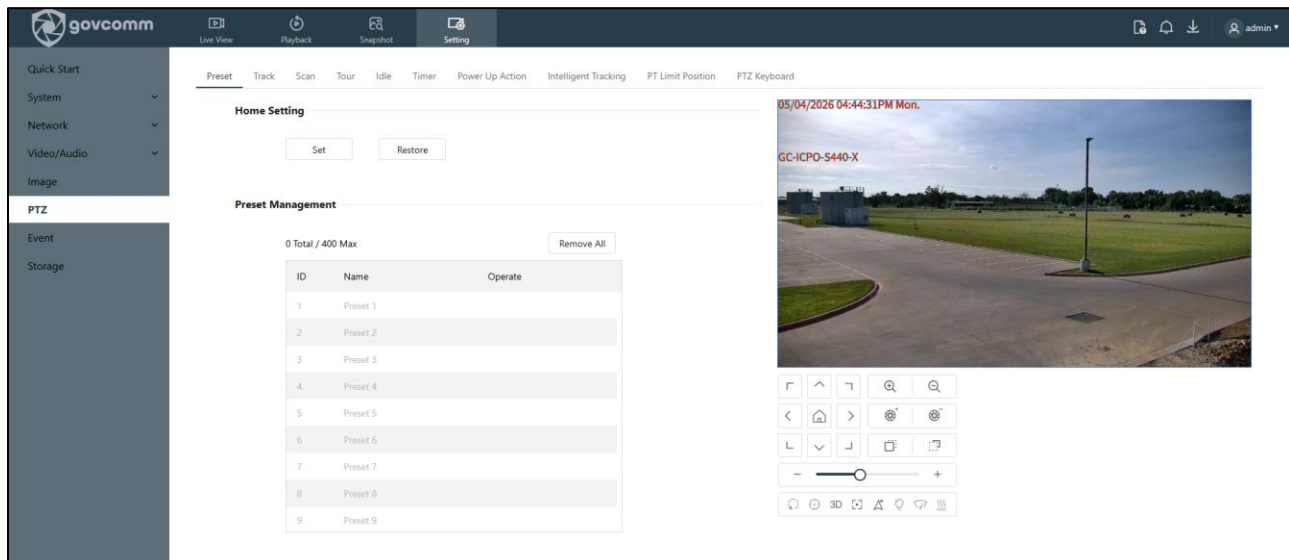
PTZ Setup

Verify pan / tilt / zoom movement in live view.

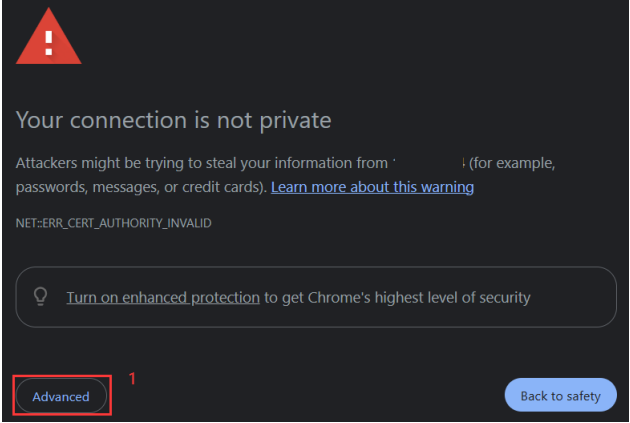
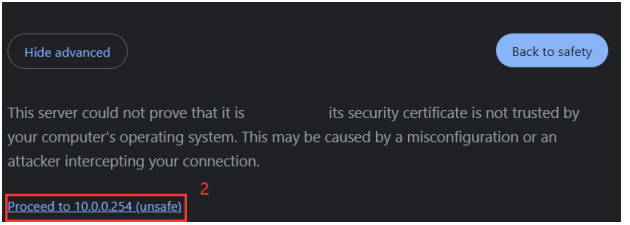
Setting > PTZ

- Set home position (default view)
- Configure preset positions
- Optional: tours, scans, idle actions
- Set “true north” position
- Configure focus:
 - Auto / semi-auto
 - Adjust sensitivity if needed

Note 📖 : To determine north, use a magnetic compass or consult a map oriented to true north, then align the camera's north indicator accordingly.



Troubleshooting

Issue	Possible Cause	Solution
Security certificate warning	Certificate not installed	Click Advanced; “Continue to XX (unsafe)” to proceed  
Cannot access web interface	Network disconnected; duplicate IP; different subnet	Check cabling; ping device; ensure unique IP and same subnet; try direct PC-to-camera
Web interface not loading after upgrade	Browser cache not cleared	Clear browser cache (Ctrl + Shift + Delete); reload page
PTZ / dome not controllable	Incorrect protocol/baud/address; signal cable loose	Verify settings in web interface; check and reconnect signal cable
Firmware upgrade fails	Network disconnected; incorrect settings; wrong package	Verify network connection; check settings; use correct firmware package



GovComm

Websites: govcomm.us | support.govcomm.us

Phone: 305-937-2000

Email: support@govcomm.us