

Grandstream Networks, Inc.

**GSC3610 -
User Manual**



GSC3610 - User Manual

WELCOME

Thank you for purchasing Grand stream's GSC361X FHD IP Box Camera, the innovative powerful weatherproof infrared next generation network camera. The GSC3610 is a ceiling-mounted fixed dome IP camera with a 3.6mm lens – making it an ideal device for wide-angle monitoring of nearby subjects in environments such as banks, hotels, retail stores, offices, warehouses, and building entrances. Meanwhile the GSC3615 is a wall-mounted bullet IP camera with a 3.6mm lens – making it ideal for wide-angle monitoring of nearby subjects in environments such as banks, hotels, retail, offices, warehouses, and building entrances. Both devices support motion detection and smart infrared technology for white balance and exposure to monitor activity at night in outdoor or dark enclosed spaces. The GSC3610/GSC3615 can be managed with GSURF Pro, Grandstream's free video management software, along with other ONVIF-compliant video management systems. It pairs with Grandstream's video phones and GSC3570 HD intercom and facility control station for active end-point monitoring and facility control. By adding weatherproof capabilities, this is an ideal device for increasing security and facility management in any indoor or outdoor area.


Designed for both indoor and outdoor environment, the GSC361X series of IP Cameras ensures ease of use, integration, and deployment, with multilingual graphical user interface, provides powerful solution to professional surveillance applications.

This manual will help you to learn how to operate and manage your GSC3610/GSC3615 FHD Infrared Weatherproof, IP Box Camera and make the best use of it.

PRODUCT OVERVIEW

Feature Highlights

The following table contains the major features of the GSC3610/GSC3615:

GSC3610 	<ul style="list-style-type: none">○ Motion detection○ Smart infrared technology for optimal white balance and exposure○ Built-in PoE to power the device and provide a network connection○ Alert notifications via outbound voice or video call & email screenshot○ IP67-level weatherproof capability○ Primary stream 1920×1080 and Secondary stream 640×480○ SIP/VoIP support for video and audio streaming to endpoints (external microphone required)
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GSC3610 Features in a Glance

GSC3610 Technical Specifications

The following table resumes all the technical specifications including the protocols / standards supported, voice codecs, telephony features, languages, and upgrade/provisioning settings for GSC3610/GSC3615.

Network Protocol	SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, SSH, TFTP, NTP, STUN, LLDP-MED, TLS, SRTCP
Image Sensor Resolution	1/2.9" CMOS Sensor, 1920(H)*1080(V) (2M)

Video Compression	H.264/JPEG/MJPEG
Supported Maximum Video Resolution	Primary Stream:1920*1080; 1280*960; 1280*720 Secondary Stream: 1280*720; 704*576; 640*480; 352*288; 320*240
Video Output	Network
Audio	1 x 3.5mm Line-In Port; 1 x 3.5mm Line-Out Port
Scanning System	Progressive
Image Configuration	Saturation/Brightness/Contrast/Sharpness, White Balance
Focal Length	Fixed 3.6mm
Infrared LED	2x LED, up to 20M, Auto Control
Ethernet	One RJ-45 (10/100Base-T) Port with PoE
ONVIF	Yes, Profile S
Day/Night	Color/ Black &White (IR-CUT)
Motion Detection	Supported
Language Supported	Multi-Language
Privacy Mask	4 Rectangular Zone
Weatherproof Grade	Metal, IP67-level weatherproof capability
Power	DC12V±10%,1A (Power Adapter NOT Included) PoE: Support IEEE 802.3af
Temperature / Humidity	-20 °C ~ 50 °C, RH95% Max
Weight and Dimensions	109 x 93mm, 390g
Compliance	FCC, CE, RCM, IC

Table 2: GSC3610/ Technical Specifications

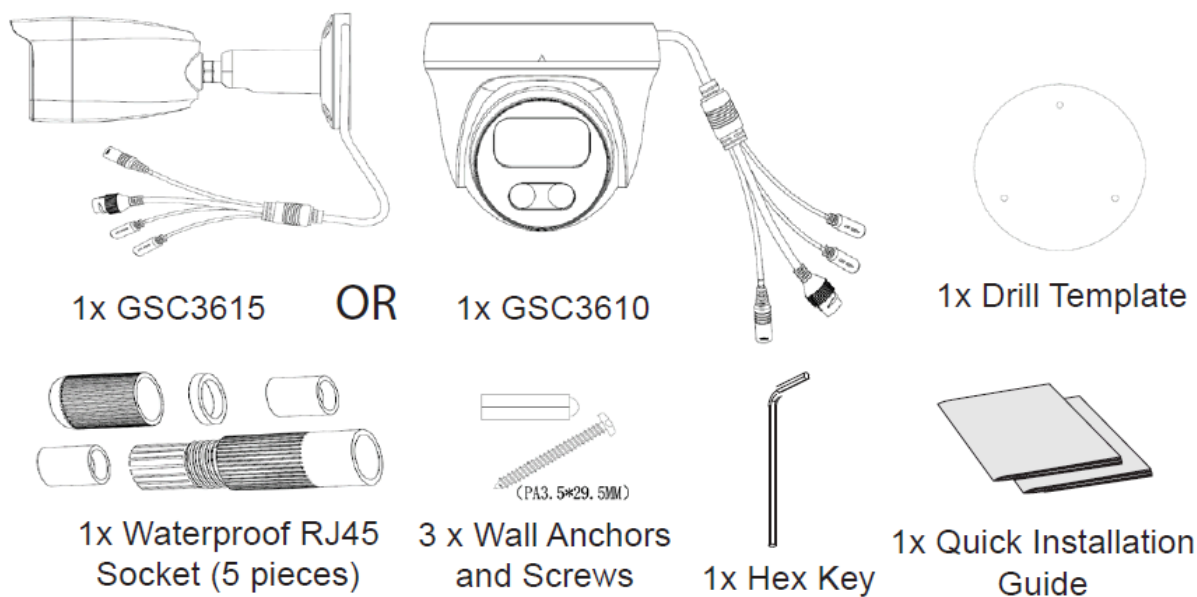
GETTING STARTED

This chapter provides basic installation instructions including the list of the packaging contents and also information for obtaining the best performance with the GSC3610

Equipment Packaging

Equipment Packaging

GSC3610
<ul style="list-style-type: none">1x GSC3610 Main Case.1x Drill Template1x Hex Key1x Waterproof RJ45 Socket (5 pieces)3x Wall Anchors and Screws1x Quick Installation Guide.



GSC3610/GSC3615 Package Content

Note: Check the package before installation. If you find anything missing, contact your system administrator.

Powering and Connecting the GSC361X

The GSC3610/GSC3615 can be powered either using the right PSU (DC12V, 1A) or using a PoE switch, please refer to illustration below to do the wiring and connect the waterproof RJ45 socket:

Option A (Recommended)

- Based on T-568B (see diagram below) to install the RJ45 plug, tighten the connector using the provided waterproof socket.

RJ45 Pinout T-568B

1. White Orange
2. Orange
3. White Green
4. Blue
5. White Blue
6. Green
7. White Brown
8. Brown

*Top View of Cable Plug Shown



2. Connect the other end of the cable to a switch supporting Power over Ethernet.

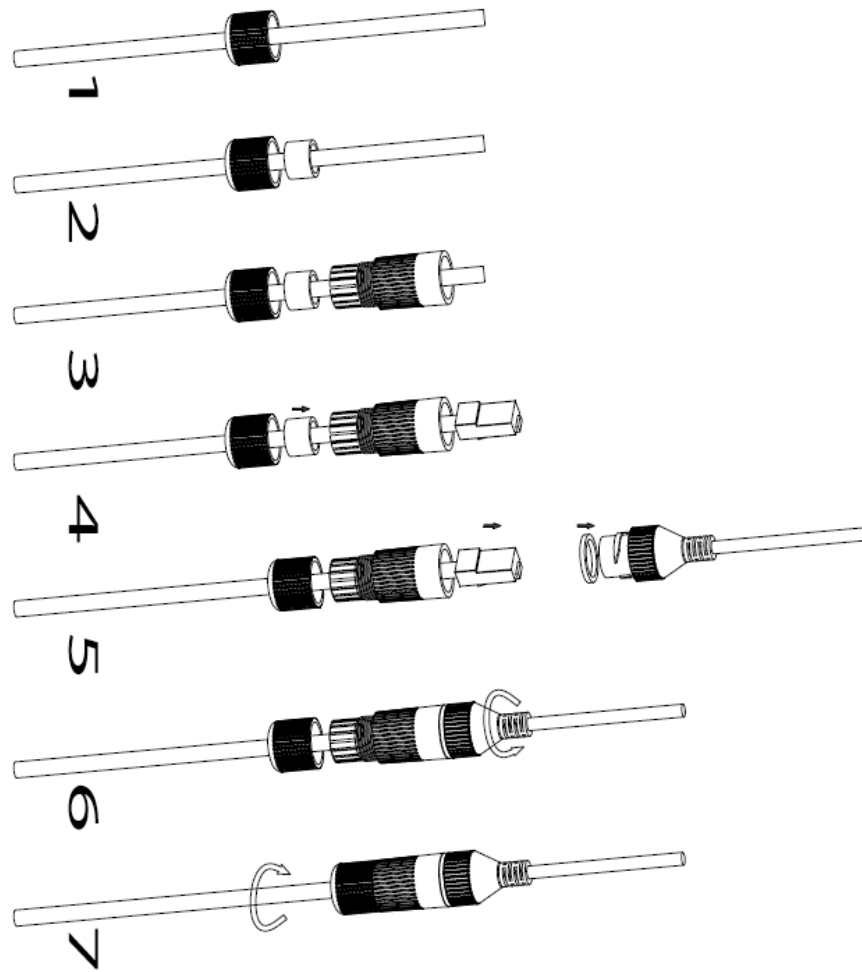


Figure 2: RJ45 plug installation

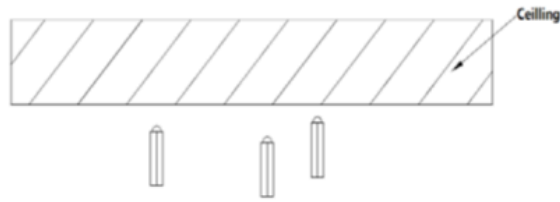
Option B

1. Wire the cable and connect it to a network switch as in the figure above.
2. Connect a 12VDC, 1A (minimum) Power Adapter (not provided) to the power socket of the GSC3610 tail cable. Make sure the polarity "+" (center) and "-" (outside) are correctly connected.

HARDWARE INSTALLATION

Mounting GSC3610

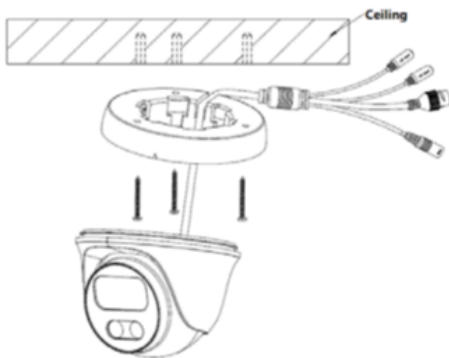
Step 1: Use supplied drill template to drill holes at ceiling. Select appropriate anchors or screws based on ceiling material.



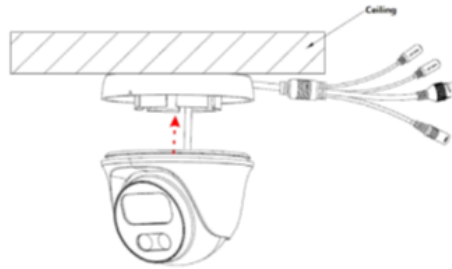
Step 2: Remove the top cover of the camera by turning it counterclockwise as shown in the figure below. Refer to the arrow and small notch on the machine body as shown below to align the machine cover.



Step 3: Place the cable into the groove of camera cover, mount the cover into ceiling using provided screws as shown in below diagram. Leave the connectors of cable dangling outside the cover.



Step 4: Hold the body of camera and align to the notch as shown in the diagram, then push the body of camera into the cover of camera already mounted at the ceiling.



Step 5: Rotate the body of camera to snap to the self-locking bracket.

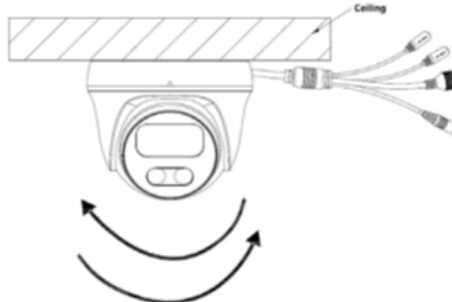


Figure 3: Mounting GSC3610

GSC361X APPLICATION SCENARIOS

GSC361X is a very versatile infrared IP Camera, it can be used in a lot of scenarios.

LAN without Internet

For multi-room or a bigger space, multiple GSC361X might be required. User can establish a local area network using PoE switch.

If remote access required, a router with internet access may add in.

Equipment List:

1. Several GSC361X
2. Ethernet cables
3. Switch (Static IP required to configure to IP Cameras)
4. PoE Switch (Optional, better solution)

Note: If remote access to the cameras required to view the LIVE video stream, then broadband Internet is required, and more equipment required:

1. Router (if DHCP configured than static IP is not required although still recommended)
2. iPhone or Android phone. (Application like "IP Cam Viewer")

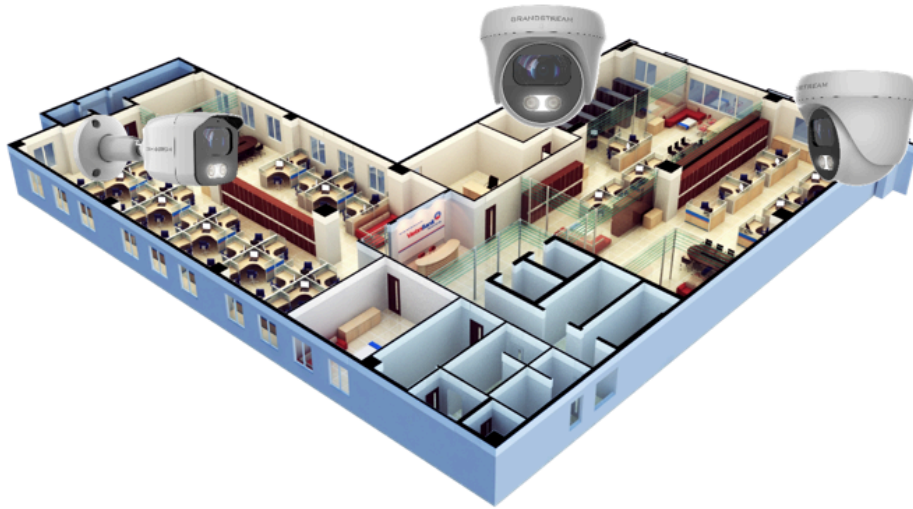


Figure 5: GSC3610/GSC3615 Working in LAN

LAN with Internet

For multi-room or a bigger space, with Internet access and local video recording required, following list is recommended:

Equipment List:

1. Several GSC361X
2. Ethernet cables
3. Switch (PoE Switch recommended)
4. Router
5. Broadband Internet Access (FiOS, Cable or DSL)
6. iPhone or Android phone. (Application like "IP Cam Viewer")
7. VMS GSurf_Pro Remote Access (Optional)



Figure 6: GSC361X working with Internet

Application Peripheral Connection

Below is the illustration of GSC3610/GSC3615 peripheral connections for related application.



Application Peripheral Connection for GSC3610

- Audio Output and Input using 3.5mm interface must match below parameters:

Audio Output	3.5mm Line-Out, 560Ω, 4.0Vpp
Audio Input	3.5mm Line-In, 1-50mVpp

- Grandstream phones can work with GSC3610 (video stream using GXV33xx & GXV34xx only) via either Peer IP (LAN) or SIP extension (WAN). Peer to Peer (or Direct IP) works only at LAN using static IP; SIP extension requires related SIP server/proxy provided and configured.

GSC3610 WEB GUI


Note the below requirement to access/configure the GSC361X:

- Internet Browser like Firefox, Chrome, Microsoft Internet Explorer.
- DHCP server enabled on the network.

Two ways exist for Windows user to get access to the GSC361X:


UPnP

By default, the GSC361X has the UPnP feature turned ON. For customers using Windows network with UPnP turned on (most SOHO routers support UPnP), it is easy to access the GSC361X:

- Find the "Network" icon  on the windows Desktop.
- Click the icon to get into the "Network", the GSC361Xs will list as "Other Devices" shown. Refresh the pages if nothing displayed. Otherwise, the UPnP may not be active in the network.
- Click on the displayed icon of related GSC361X, the default browser (e.g.: Internet Explorer, Firefox, or Chrome) will open and connect directly to the login webpage.

GS Search

Double check the requirements then follow the below steps to access the GSC361X WEB configuration page:

- Download and install GS_Search tool from the link below:
[GS_Search](#)
- Run the Grandstream GS_Search tool.
- Click on  button to start device detection.
- The detected devices will appear in the output field as below.

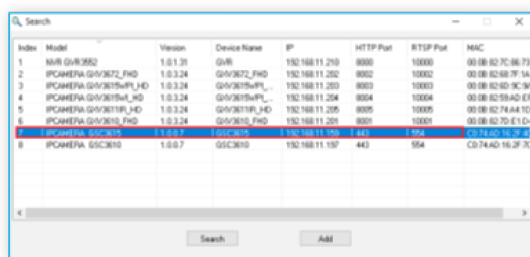


Figure 8: GS_Search tool

- Double-click on the detected device. The default browser (Chrome in this example) will open to display the camera's login web interface.

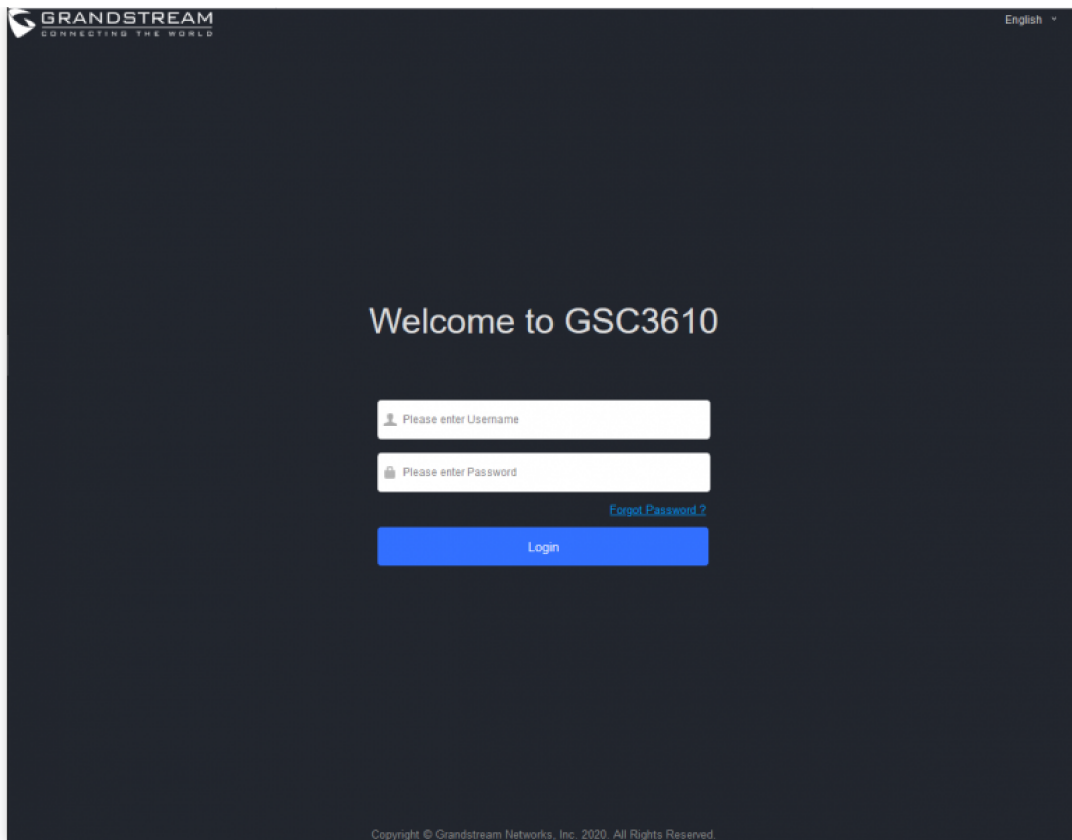


Figure 9: GSC361X Login Page

- When clicking on the “Language” drop down, supported languages will be displayed. Click to select the related webpage display language. (Current firmware supports only English as default and simplified Chinese).
6. Username and password are required to login the camera to manage the device. The default username is “admin”; the default password is a random password printed in a sticker which can be found on the camera body or cable.
- The default connection is via HTTPS. Once input the correct username and password, the device configuration webpage will be available.

Web GUI Settings

The GSC3610/GSC3615 embedded Web server responds to HTTP/HTTPS GET/POST requests. Embedded HTML pages allow users to configure the application phone through a Web browser such as Microsoft’s IE, Mozilla, Firefox, Google Chrome and etc.

- Once logged in successfully to the GSC361X, the browser will display the GUI as shown below:

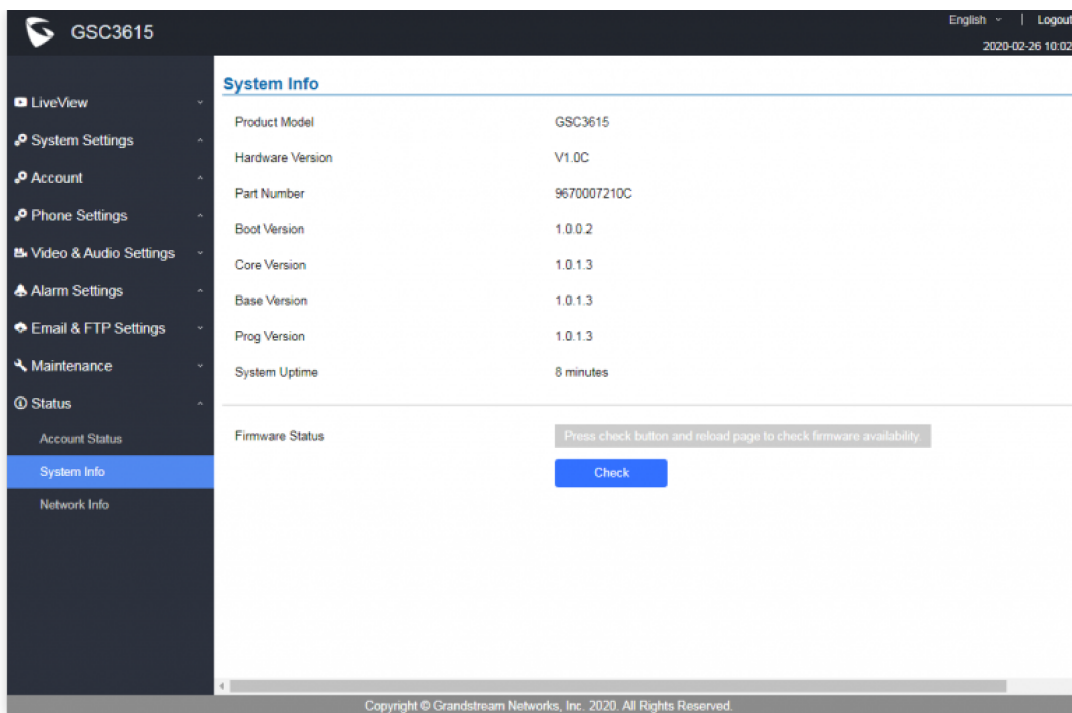











Figure 10: GSC3610/GSC3615 Web GUI

Fields	Description
LiveView	Access to live view stream page.
	Play/Stop Live View
	Play the primary stream.
	Play the secondary stream.
	Zoom in/out
	Mute/Un-Mute
	Start/Stop Talking
	Capture a screenshot
	Start/Stop Recording
	Set up "Record Path" and "Capture Path"



System Settings	Access to "System Settings" page.
Account	Access to "Account" configuration page.
Phone Settings	Access to "Phone Settings" configuration page.
Video & Audio Settings	Access to "Video & Audio settings" page.
Alarm Settings	Access to "Alarm settings" page.
Email & FTP Settings	Access to "Email & FTP Settings" page.
Maintenance	Access to "Maintenance" page.
Status	Click to enter "Status" page.
Display Performance	Brightness Contrast Saturation Sharp
Date & Time	Displays the current Date & Time
	Logout from the web page.
	Select the webpage language.

Table 4: GSC3610/GSC3615 WEB GUI Sections

GSC361X SETTINGS

Live View Page

This page allows users to view the live video of the GSC3610/GSC3615.

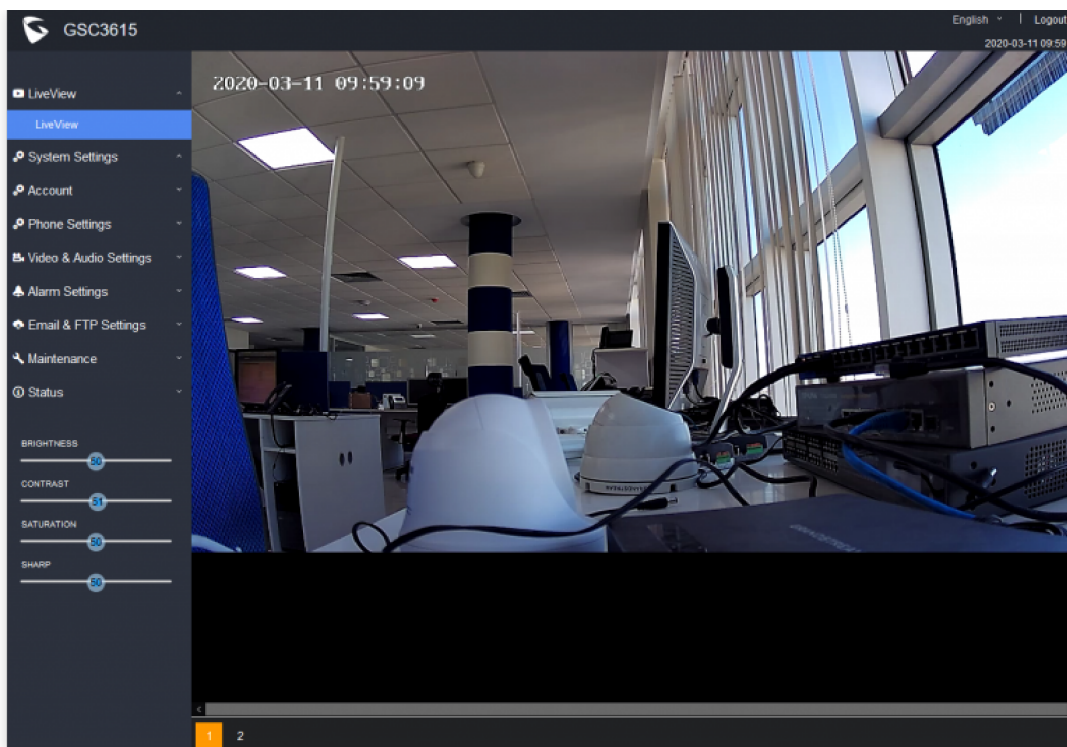


Figure 11: Live View

Two streams are available:

- **Primary video stream:** 1920*1080 resolution, recommended for continuous full HD recording
- **Secondary video stream:** 640*480 resolution, recommended for SIP/VoIP video calls

Note

Make sure to download/Install the browser video plugin to have access to the Live View and video stream tools.

System Settings

This page allows users to configure date and time, network settings as well as access method to the GSC361X and password for accessing the Web GUI.

Date & Time Settings

This page allows users to adjust system date and time.

Date & Time	
System Time	1980-01-01 02:10:40 Sync PC
Allow DHCP Option 42 to override NTP server	<input type="checkbox"/>
Time Zone	Auto ▼
Enable NTP	<input type="checkbox"/>
NTP Server	pool.ntp.org
Update Interval(m)	1440

Figure 12: Date & Time Page

System Time	Displays the current system time.
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Allow DHCP Option 42 to override NTP server	Defines whether DHCP Option 42 should override NTP server or not. When enabled, DHCP Option 42 will override the NTP server if it is set up on the LAN. The default setting is "Yes".
Time Zone	Configures the date/time used on the phone according to the specified time zone. Default is Auto.
Self-Defined Time Zone	<p>When Time Zone is set as Self-Defined Time Zone then this parameter will allow the users to define their own time zone.</p> <p>The syntax is: std offset dst [offset], start [/time], end [/time]</p> <p>Default is set to: MTZ+6MDT+5,M4.1.0,M11.1.0</p> <p>MTZ+6MDT+5</p> <p>This indicates a time zone with 6 hours offset with 1 hour ahead (when daylight saving) which is U.S central time. If it is positive (+) if the local time zone is west of the Prime Meridian (A.K.A: International or Greenwich Meridian) and negative (-) if it is east.</p> <p>M4.1.0,M11.1.0</p> <p>The 1st number indicates Month: 1,2,3..., 12 (for Jan, Feb, ..., Dec)</p> <p>The 2nd number indicates the nth iteration of the weekday: (1st Sunday, 3rd Tuesday...)</p> <p>The 3rd number indicates weekday: 0,1,2,...,6(for Sun, Mon, Tues, ... ,Sat)</p> <p>Therefore, this example is the DST which starts from the First Sunday of April to the 1st Sunday of November.</p>
Enable NTP	Enables NTP to synchronize device time.
NTP Server	Configures the domain name of NTP server. Default is "pool.ntp.org"
Update Interval	Configures the Interval (in minutes) to retrieve updates from the NTP server.

Table 5: Date & Time

Network Settings

This page allows users to set either a static or DHCP IP address to access the unit.

LiveView

System Settings

Date & Time

Network Settings

TR069

Access Settings

User Management

Account

Phone Settings

Video & Audio Settings

Alarm Settings

Email & FTP Settings

Maintenance

Status

Basic Settings

IP Address Config

IP Address Mode

☒ DHCP
☐ Static IP

IP Address

192

168

5

209

Subnet Mask

255

255

255

0

Gateway

192

168

5

1

DNS Config

DNS Address Type

☒ Dynamic DNS
☐ Static DNS

DNS Server 1

8

8

8

8

DNS Server 2

8

8

4

4

LLDP Config

Enable LLDP

☐ Disable
☒ Enable

Layer 2 QoS 802.1Q/VLAN Tag

0

Layer 2 QoS 802.1p Priority Value

0

Figure 13: Basic Settings Page

IP Address Mode	Selects DHCP or Static IP. Default DHCP. (Static recommended)
IP Address	Configures the Static IP of the GSC361X.
Subnet Mask	Configures the Associated Subnet Mask.
Gateway	Configures the Gateway IP address.
DNS Address Type	Specifies the DNS type used: Dynamic DNS or Static DNS.
DNS Server 1	Configures DNS Server 1 IP address.
DNS Server 2	Configures DNS Server 2 IP address.
Enable LLDP	Controls the LLDP (Link Layer Discovery Protocol) service. The default setting is "Enabled".
Layer 2 QoS 802.1Q/VLAN Tag	Assigns the VLAN Tag of the Layer 2 QoS packets. Default value is 0.
Layer 2 QoS 802.1p Priority Value	Assigns the priority value of the Layer2 QoS packets. Default value is 0.

Table 6: Basic Settings

Notes:

- If the device is behind SOHO (Small Office Home Office) router with port forwarding configured for remote access, static IP should be used to avoid IP address changes after router reboot.
- TCP port above 5000 is suggested to Port forward HTTP for remote access, due to some ISP would block port 80 for inbound traffic. For example, change the default HTTP port from 80 to 8088, to make sure the TCP port will not be blocked.

- In addition to HTTP port, RTSP port is also required to configure via port forwarding, so that the remote party can view the video stream.

TR069

This page allows users to set TR-069.

Figure 14: TR069 Settings Page

This feature allows centralized management and provisioning of mass product operations. This is very useful for ITSP customers and enterprise solutions. With GDMS management, customers can manage, provision the GSC361X from GDMS platform.

For detailed management and usage of this feature, please refer to Grandstream Device Management System (GDMS) product page: <https://www.grandstream.com/products/device-management/gdms>

ACS URL	Specifies URL of TR-069 ACS (e.g.,http://acs.mycompany.com), or IP address. Default setting is "https://acs.gdms.cloud"
TR-069 Username	ACS username for TR-069.
TR-069 Password	ACS password for TR-069.
Periodic Inform Enable	Enables periodic inform. If set to "Yes", device will send inform packets to the ACS.
Periodic Inform Interval	Sets up the periodic inform interval to send the inform packets to the ACS. The default value is "60".
Connection Request Username	The username for the ACS to connect to the phone.
Connection Request Password	The password for the ACS to connect to the phone.
Connection Request Port	The port for the ACS to connect to the phone. The default value is "7547".

CPE Cert File	The Cert File for the phone to connect to the ACS via SSL.
CPE Cert Key	The Cert Key for the phone to connect to the ACS via SSL.

Table 6: TR069 Settings

Access Settings

This page configures the GSC361X access control parameters.

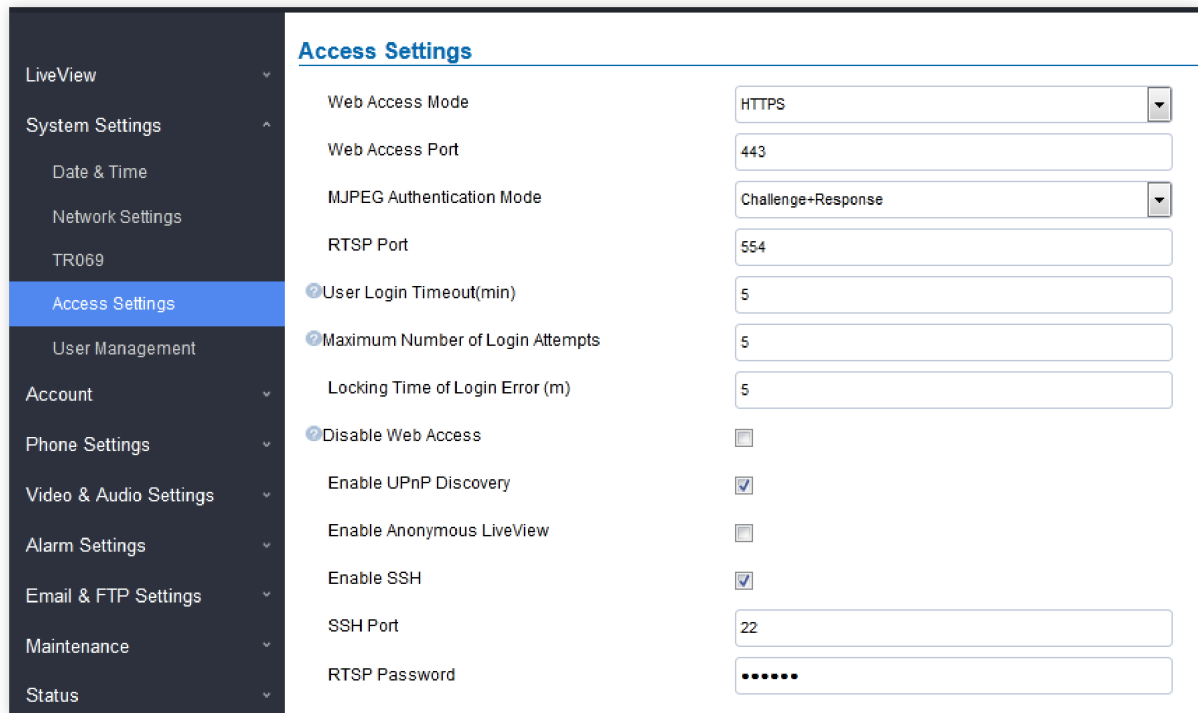


Figure 15: Access Settings Page

Web Access Mode	Selects the access mode to the Web GUI either HTTP or HTTPS.
Web Access Port	Specifies the TCP port for Web Access, default 443.
MJPEG Authentication Mode	<p>Allows 3rd party system integrator or developers to implement related application for users. By default, this feature is disabled and use more secured “Challenge+Response” mode.</p> <p>If enabled, user can send HTTP API with correct credentials to retrieve MJPEG video stream or JPEG snapshot from GSC.</p> <p>Notes:</p> <ol style="list-style-type: none"> The MJPEG stream can be retrieved via the following URL <p>HTML based → http(s)://admin:password@IP_GSC3610:Port/jpeg/mjpeg.html</p> <p>Stream → http(s)://admin:password@ip:port/jpeg/stream</p> <ol style="list-style-type: none"> The MJPEG stream retrieved via the methods above is running on the background and cannot be tuned. If users want more flexibility, they can use the three configurable video streams as shown on [Retrieving Video Streams]
RTSP Port	Specifies RTSP port for media stream, default TCP port 554.

User Login Timeout(min)	If no action is made within this time the GSC361X will logout from the Web GUI, range is between 3 and 60. Default is 5.
Maximum Number of Login Attempts	Specifies the allowed login times error limit, if the unsuccessful login attempts exceed this value, the GSC361X webGUI will be locked for the time specified in Login Error Lock Time. Default is 5.
Locking Time of Login Error (m)	Specifies how long the GSC361X is locked before a new login attempt is allowed. Default is 5.
Disable Web Access	<p>Allow or deny the web access to the GSC361X. (HTTP API do not take effect when this option is enabled).</p> <p>Note: If both WebUI and SSH are disabled, GSC361X will get blocked and not be able to be accessed. Only two ways to get it back:</p> <ol style="list-style-type: none"> 1. Re-provisioned by ITSP or Service Provider (by adjusting the related parameters) 2. Hard Reset (GSC361X has to be offline and uninstalled to perform this hard reset).
Enable UPnP Discovery	UPnP (or mDNS) function for local discovery. Default setting is enabled.
Enable Anonymous LiveView	<p>1. When enabled, user can display the camera stream from without admin credentials using the following URL scheme:</p> <p><code>http(s)://GSC3610_IP:port/videoview.html</code></p> <p>1. User can also retrieve a real-time snapshot without admin credentials using the following URL:</p> <p><code>http(s)://IP:port/anonymous/snapshot/view.html</code></p> <p>Or with:</p> <p>https://IP_GSC3610:Port/anonymous/snapshot/view.jpg</p> <p>1. To retrieve video stream via RTSP, users can use the following format: <code>rtsp://IP_GSC3610:Port/X</code> where X=0,4 for 1st, 2nd streams, respectively.</p>
Enable SSH	Allows SSH access for remote secured configuration purposes (restart, upgrade, provision...)
SSH Port	Specifies the SSH port. Default setting is 22.

Table 7: Access Settings

Retrieving Video Streams

RTSP Stream

To retrieve video stream via RTSP, users can use the following format:

`rtsp://admin:password@IP_GSC361X:Port/X` where X=0,4 for 1st, 2nd streams respectively

Note

If the RTSP password contains the "@" character (e.g., a@min), it must be replaced with %40 in the RTSP URL to avoid connection issues. For example, use `rtsp://admin:a%40min@10.103.10.153:554/1` instead of the raw password to retrieve the video stream correctly.

MJPEG Stream

The GSC361X supports MJPEG Stream live viewing via HTTP API commands, this can be used without installing the Live view browser plugin. Users can deploy two methods to retrieve MJPEG stream depending on *MJPEG Authentication Mode*, which can be set under following path:

Web UI → System Settings → Access Settings

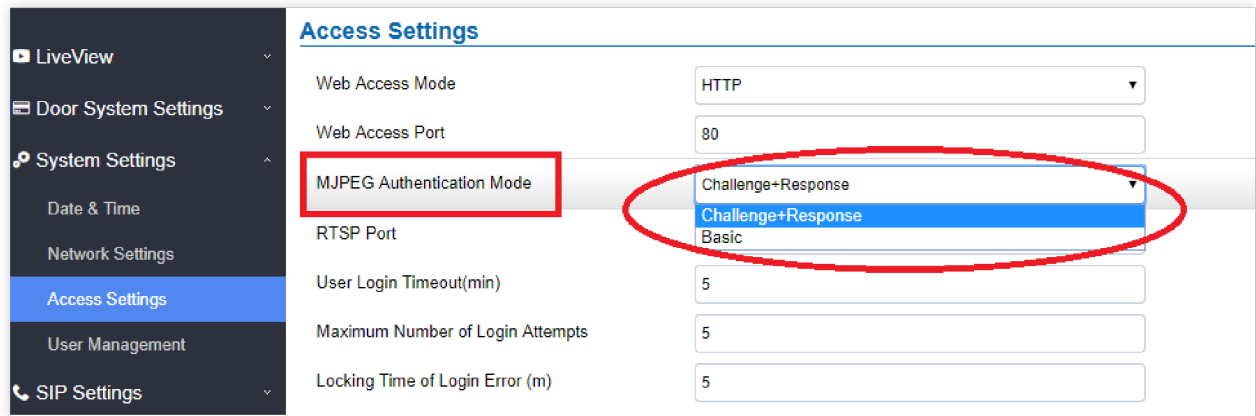


Figure 16: MJPEG Authentication Mode

A. “Challenge+Response” MJPEG Authentication Mode:

In order to get live view stream using MJPEG stream over HTTP command on this mode, please follow below steps:

1. In browser type in **http(s)://IP_Address_GSC361X:Port/jpeg/mjpeg.html**
Example: https://192.168.5.146/jpeg/mjpeg.html
2. The browser will pop up the window above asking for credentials, user needs to enter admin credential.
3. The browser will show MJPEG stream (720p).

B. “Basic” MJPEG Authentication Mode:

Please follow below steps in order to take a snapshot via HTTP commands:

1. In browser type in: **http(s)://admin:password@IP_Address_GSC:Port/jpeg/mjpeg.html**
Example: https://admin:admin@192.168.5.157:443/jpeg/mjpeg.html
2. The browser will show MJPEG stream (720p).

Note

Similar command can be applied to open source application like **VLC Media Player** to retrieve H.264 video stream with better quality: **rtsp://admin:password@IP_GSC361X:Port/X** Where **X=0,4** corresponded to **1st, 2nd** video stream

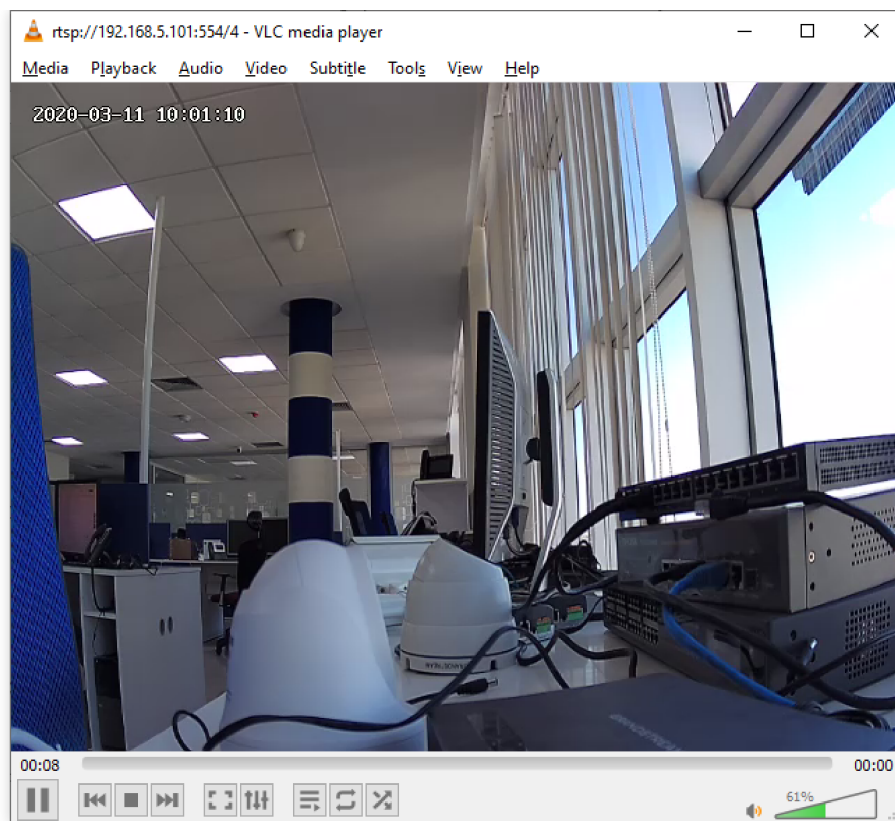


Figure 17: RTSP steam display using VLC

User Management

This page allows users to configure the password for administrator. Since this is a door system which must be a secure product, the use is only limited to administrator.

LiveView

System Settings

Date & Time

Network Settings

Access Settings

User Management

Account

Phone Settings

Video & Audio Settings

User Management

Password Recovery Email is not configured. Please input Password Recovery Email address and configure a valid SMTP service in Email Settings Page.

Change Password

Old Password

New Password

Confirm New Password

Change Recover Email

Password Recover Email Address
Email Settings

Figure 18: User Management Page

Old Password	Old password must be entered to change new password.
New Password	Fill in the revised new password in this field.
Confirm User Password	Re-enter the new password for verification, must match.
Password Recovery Email Address	<p>This option is highly recommended, as if the password is lost, you can recover it on the configured Email address.</p> <p>Note: Make sure to configure SMTP Email Settings under “Email Settings”.</p>

Table 8: User Management

Note

When trying to change the password, users need to set the "Password Recovery Email" which should be a valid Email account configurable under "Email & FTP Settings →Email Settings" to retrieve the email before the new admin password take effect as displayed on the following screenshot.

Suggest to set the "Password Recovery Email" and check it valid.

Set or not ?

Yes

No

Figure 19: Password Recovery Email

Account

The GSC361X supports 4 SIP accounts and 4 lines, this section covers the configuration of basic and advanced sip settings for each account.

Account 1 – 4

This page allows the administrator to configure the SIP account basic and advanced settings for each SIP account:

GSC3610

LiveView

System Settings

Account

Account 1

Account 2

Account 3

Account 4

Phone Settings

Video & Audio Settings

Alarm Settings

Email & FTP Settings

Maintenance

Status

Account 1

SIP Basic Settings

Account Active

SIP Server

Outbound Proxy

Backup Outbound Proxy

DNS Mode

SIP User ID

Authentication ID

Password

Display Name

TEL URI

SIP Advanced Settings

Registration Expiration(m)

Re-register before Expiration(s)

Local SIP Port

SIP Transport

Stream

Unregister On Reboot

NAT Traversal

UPnP NAT Traversal

Enable SRTP

Special Feature

Outbound Proxy Mode

Save

SIP Account Settings Page

SIP Basic Settings	
Account Active	This field indicates whether the account is active.

	Default setting is "Yes".
Account Name	Configures the SIP account name used for identification.
SIP Server	Configures the FQDN or IP of the SIP server from VoIP service provider or local IPPBX.
Outbound Proxy	Configures the IP address or the domain name of the outbound proxy, media gateway, or session border controller. It is used by the GSC for firewall or NAT penetration in different network environments. If a symmetric NAT is detected, STUN will not work and only an outbound proxy can provide a solution.
Backup Outbound Proxy	Configures the backup outbound proxy to be used when the "Outbound Proxy" registration fails. By default, this field is left empty.
DNS Mode	Configure which DNS mode will be used to translate the SIP Server FQDN (Default value is A Record): A Record. SRV. NAPTR/SRV.
SIP User ID	Configures the SIP username or telephone number from ITSP. Note: Letters, digits and special characters including @ are supported.
Authenticate ID	Configures the Authenticate ID used by SIP proxy.
Password	Sets the Authenticate password used by SIP proxy. Note: For security reasons, the SIP password is invisible on the web UI.
TEL URI	Select "User=Phone" or "Enabled" from the dropdown list. If the SIP account has an assigned PSTN telephone number, this field should be set to "User=Phone". Then a "User=Phone" parameter will be attached to the Request-Line and "TO" header in the SIP request to indicate the E.164 number. If set to "Enable", "Tel:" will be used instead of "SIP:" in the SIP request. The default setting is "Disable".
SIP Advanced Settings	
Registration Expiration (m)	Sets the registration expiration time. Default setting is 60 minutes. Valid range is from 1 to 64800 minutes.
Re-register before Expiration (s)	Specifies the time frequency (in seconds) that the GSC361X sends re-registration request before the Register Expiration. The default value is 0. Range is from 0-64800 seconds.
Local SIP Port	Sets the local SIP port. Default setting is 5060 for Account 1, 5062 for Account 2, 5064 for Account 3, 5066 for Account 4.
SIP Transport	Chooses the SIP transport protocol. UDP, TCP or TCP/TLS. Default setting is UDP.
Stream	Select the Video stream to be used by the GSC361X when call is made from this SIP Account. Default is Stream 2.

Enable DTMF	Specifies the mechanism to transmit DTMF digits. There are 2 supported modes: RFC2833 sends DTMF with RTP packet. Users can check the RTP packet to see the DTMFs sent as well as the number pressed. SIP INFO uses SIP INFO to carry DTMF. Default setting is "RFC2833"
DTMF Payload Type	Configures the payload type for DTMF using RFC2833. Default value is 101. Range: 96~127.
Unregister on Reboot	Allows the SIP user's registration information to be cleared when the GSC reboots. The SIP REGISTER message will contain "Expires: 0" to unbind the connection.
NAT Traversal	<p>This parameter configures whether the NAT traversal mechanism is activated. Users could select the mechanism from No, STUN, Keep-alive, UPnP, Auto. The default setting is "No".</p> <p>If set to "STUN" and STUN server is configured, the GSC will route according to the STUN server. If NAT type is Full Cone, Restricted Cone or Port-Restricted Cone, the unit will try to use public IP addresses and port number in all the SIP&SDP messages.</p> <p>The GSC will send empty SDP packet to the SIP server periodically to keep the NAT port open if it is configured to be "Keep-alive". Configure this to be "No" if an outbound proxy is used. "STUN" cannot be used if the detected NAT is symmetric NAT. If the firewall and the SIP device behind the firewall are both able to use UPNP, it can be set to "UPNP". Both parties will negotiate to use which port to allow SIP through.</p>
uPnP NAT Traversal	If the user has SIP Proxy and Router support uPnP NAT Traversal, user can enable this feature to allow IP Camera to use UPnP NAT Traversal and automatically process the NAT issue. The default is disabled.
Enable SRTP	Enable SRTP mode based on your selection from the drop-down menu. The default setting is "Disabled", the two other modes are "Enabled but Not Forced" and "Enabled and Forced".
Special Feature	Configures GSC settings to meet different vendors' server requirements. Users can choose from Standard, BroadSoft or Telefonica Spain. This "Special Feature" will allow GSC36xx to operate like other Grandstream SIP end points in some ITSP's network, like for example Telefonica, or Broadsoft platform. The default setting is "Standard".
Outbound Proxy Mode	In route: outbound proxy FQDN is placed in route header. This is used for the SIP Extension to notify the SIP server that the device is behind a NAT/Firewall. Always sent to: SIP messages will always be sent to Outbound proxy. Not in route: remove the Route header from SIP requests.
Enable RTCP	This option allows 3rd party Service Provider or Cloud Solution to monitor the operation status of the GSC361X by using related SIP Calls. By default, it is disabled. Users can choose either RTCP or RTCP-XR.
H.264 Payload Type	The H.264 payload type can now be configured to be compatible with 3rd party video phones, as well as other advanced SIP settings, to easy system integration process. Default is 99.
Accept Incoming SIP from Proxy Only	When set to "Yes", the SIP address of the Request URL in the incoming SIP message will be checked. If it does not match the SIP server address of the account, the call will be rejected. The default setting is disabled.
Enable RFC6184	This option allows support for H.264 video streaming over SIP by following RFC6184, which ensures compatibility with SIP-based video calls.

	Enabled by default.
SIP URI Scheme When Using TLS	Determines whether the SIP URI uses sip: (unencrypted) or sips: (encrypted with TLS) when securing SIP communication.
Support SIP Instance ID	Enables the use of a unique identifier for the device in SIP registrations, helping differentiate multiple devices using the same SIP account.
Vocoder Settings	
Preferred Vocoder 1	Select audio codec to prioritize. Supported codecs are: PCMU and PCMA.
Preferred Vocoder 2	Select the second audio codec PCMU or PCMA.
Voice Frame Per TX	Configures the number of voice frames transmitted per packet. When configuring this, it should be noted that the "ptime" value for the SDP will change with different configurations here. This value is related to the codec used and the actual frames transmitted during the in-payload call. For end users, it is recommended to use the default setting, as incorrect settings may influence the audio quality. Range is from 1-64. The default setting is 2.

Phone Settings

The phone settings allow users to configure the GSC361X phone settings and the White list for all the SIP accounts.

Phone Settings

This page allows users to configure the GSC361X phone settings.

LiveView

System Settings

Account

Phone Settings

Phone Settings

Account 1 White List

Account 2 White List

Account 3 White List

Account 4 White List

Video & Audio Settings

Alarm Settings

Email & FTP Settings

Maintenance

Status

Phone Settings

STUN Server

Local RTP Port

5004

Use Random Port

☒

Auto On-Hook Timer(s)

300

Ringing Timeout(s)

30

SIP TLS Certificate

SIP TLS Private Key

SIP TLS Private Key Password

.....

Enable Direct IP Call

☒

Enable two-way SIP Calling

☐

SIP Proxy Compatibility Mode

☒

SIP Packetization Compatibility Mode

☒

Enable Multi-channel Call Mode

☐

Allow Reset Via SIP NOTIFY

☐

STUN Server	Configures the STUN server FQDN or IP. If the device is behind a non-symmetric router, STUN server can help to penetrate & resolve NAT issues.
Local RTP Port	Sets the local RTP port for media. Default setting is 5004. Range between 1024~65400.
Use Random Port	Forces the GSC361X to use random ports for both SIP and RTP messages. This is usually necessary when multiple units are behind the same full cone NAT. The default setting is "Disabled" Note: This parameter must be set to "Disabled" for Direct IP Calling to work.
Auto On-Hook Timer	Configures the auto on-hook timer (in seconds) for automatic disconnecting the SIP call. Default setting is 300. Range between 0~65535.
Ring Timeout(s)	Specifies the Ring timeout, when no reply is returned from the called party after exceeding this field, the GSC361X will hang up the call. The value is in the range of 0s – 90s. By default, it is "30" seconds.
SIP TLS Certificate	Input the TLS certificate here for encryption.
SIP TLS Private Key	Input private key here for TLS security protection.
SIP TLS Private Key Password	Specifies the password for SIP TLS private Key.
Enable Direct IP Call	Accepts peer-to-peer IP call (over UDP only) without SIP server. Default is "Enabled".
Enable two-way SIP Calling	Allows the user to enable/disable the alarm sound during a SIP call triggered by doorbell pressing.
SIP Proxy Compatibility Mode	Enables more proxy compatibility with cost of bandwidth, the SIP call will send audio no matter what.
SIP Packetization Compatibility Mode	When enabled, the GSC361X will have in SDP "packetization-mode = 0". This is required when the device is interacting with legacy video phones that only accepts this value to decode the RTP.
Enable Multi-channel Call Mode	This feature allows the device to receive multiple calls at the same time, with one active and others on hold (up to 4 calls maximum).
Allow Reset Via SIP NOTIFY	Allows to factory reset the devices directly through SIP Notify. If "Allow Reset Via SIP NOTIFY" is "check", then once the GSC3610/3615 receives the SIP NOTIFY from the SIP server with Event: reset, the device will perform a factory reset after authentication. This authentication can be either with: <ul style="list-style-type: none"> ◦ The admin password if no SIP account is configured on the unit. ◦ The SIP User ID and Password credentials of the SIP account if configured on the unit. Default is unchecked (disabled).

Table 10: Phone Settings

Account [1-4] White List

This page allows users to configure the white list per account, which is a phone number or extension list that can call the GSC361X. (The call will be automatically answered when calling from a phone set on the white list, and all other inbound calls will be blocked), the user can configure up to 30 white phone numbers per SIP account. Moreover, besides numbers associated to active cards, and numbers on the “Number Called When Doorbell Pressed” setting, all whitelisted numbers can open door remotely by using the respective PIN code.

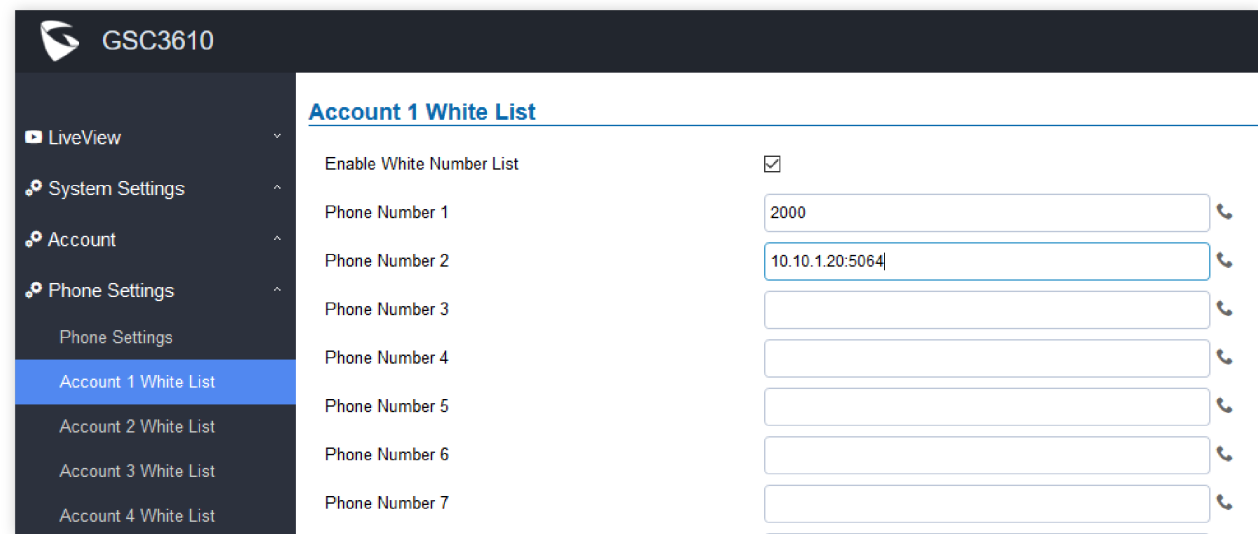


Figure 22: White List Page

The table below gives a brief overview of the options:

Enable White Number List	Enables the White List feature.
Phone Number 1 -30	<div>Adds a new phone number (or IP address) to the white list.</div> <div>Notes:<ul style="list-style-type: none">When using IP addresses, the port number should be appended (default 5060).Only the whitelisted numbers/IPs can open door remotely using PIN Code when calling GSC361X.</div>

Table 11: White List

Video & Audio Settings

The audio and videos settings allow users to configure the video / audio codecs, videos resolution, CMOS settings and audio related settings.

Video Settings

LiveView

System Settings

Account

Phone Settings

Video & Audio Settings

Video Settings

OSD Settings

CMOS Settings

Audio Settings

Privacy Masks

Alarm Settings

Email & FTP Settings

Maintenance

Status

Video Settings

Stream 1

Preferred Video Codec

H264

Profile

Baseline

Resolution

1920*1080(16:9)

Bit Rate(kbps)

2048

Frame Rate(fps)

30

Bit Rate Control

CBR (Constant Bit Rate)

Image Quality

Very High

I-frame Interval

30

Stream 2

Preferred Video Codec

H264

Profile

Baseline

Resolution

640*480(4:3)

Bit Rate(kbps)

1024

Frame Rate(fps)

30

Bit Rate Control

CBR (Constant Bit Rate)

Image Quality

Normal

I-frame Interval

30

Save

Figure 23: Video Settings Page

Stream 1	
Preferred Video Codec	Selects the videos codecs, the codecs supported are H.264 and MJPEG. Default setting is H.264.
Profile	Selects the H.264 profile. Three profiles are available for H.264: Baseline, Main Profile and High Profile.
Resolution	Specifies the resolution in pixels used at video image.
Bit Rate(kbps)	Selects the video bit rate or bandwidth used.
Frame Rate(fps)	Selects the maximum frame rate used (more data if big frame used).
Bit Rate Control	Selects the constantly bit rate, or variable bit rate.
Image Quality	Selects the image quality used when Variable Bit Rate used.
I-frame Interval	Configures the I-frame interval (suggested 2~3 times of frame rate).

Stream 2	
Preferred Video Codec	Selects the videos codecs, the codecs supported are H.264 and MJPEG. Default setting is H.264.
Profile	Selects the H.264 profile. Three profiles are available for H.264: Baseline, Main Profile and High Profile.
Resolution	Specifies the resolution in pixels used at video image. Note: Several resolutions can be set to 2 nd stream, to allow users to choose based on application requirement and bandwidth availability, to use the resolution for SIP call, RTSP, Recording, etc.
Bit Rate(kbps)	Selects the video bit rate or bandwidth used.
Frame Rate(fps)	Selects the maximum frame rate used (more data if big frame used).
Bit Rate Control	Selects the constantly bit rate, or variable bit rate.
Image Quality	Selects the image quality used when Variable Bit Rate used.
I-frame Interval	Configures the I-frame interval (suggested 2~3 times of frame rate).

Table 12: Video Settings

Notes

- H.264 suggested if the GSC361X needs to be viewed via Internet.
- For definition of Baseline, Main Profile and High profile of H.264 please refer to: [H.264 Profiles](#)
- If MJPEG is selected, reduce the frame rate to the minimal value to save bandwidth and get better image.
- Grandstream GSC361X provides two video streams, users can use them with flexibility. For example, the high-resolution stream for local recording, another low or high resolution for SIP video phone call or remote smartphone monitoring application, or vice versa depending application scenarios.
- Use below link to calculate bandwidth and storage before installation
<https://www.grandstream.com/support/tools/bandwidth-storage-calc>

OSD Settings

OSD Settings (On Screen Display) allow the users to Display time stamp and text on the video screen.

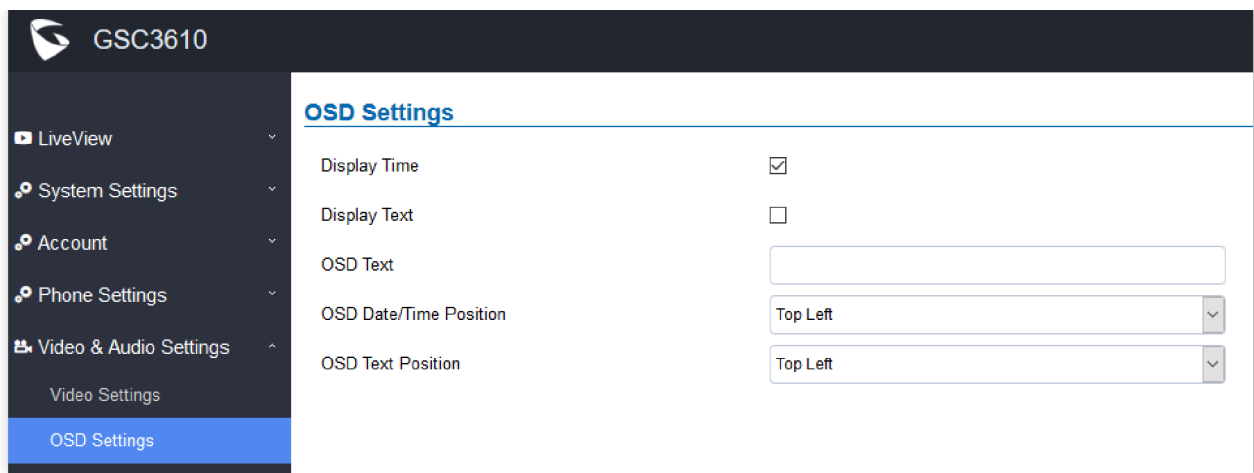


Figure 24: OSD Settings Page

Display Time	When checked, time will be displayed inside the video image.
Display Text	When checked, inputted text on “OSD Test” will be displayed on the video image.
OSD Text	Input a text (to identify the GSC361X) it will be shown on the screen. Maximum length is 48 characters.
OSD Date/Time Position	Show the Date/Time position on the screen.
OSD Text Position	Show the text position on the screen.

Table 13: OSD Settings

CMOS Settings

This page configures the CMOS parameters for different scenarios.

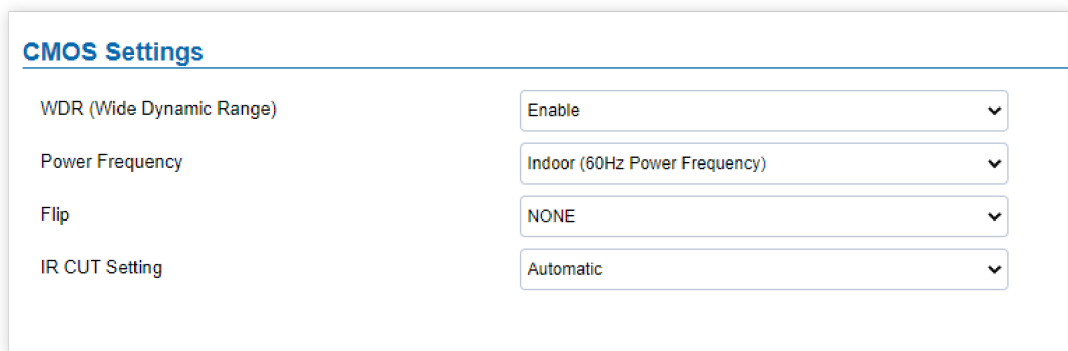


Figure 25: CMOS Settings Page

WDR (Wide Dynamic Range)	<p>This option allows users to configure the IP Camera in some special lighting environment like back light, strong contrast scene to have a better image.</p> <p>The WDR (Wide Dynamic Range) is e-WDR, meaning the IP Camera combines two images based on bright and dark light conditions to form the image. Default is “Enable”.</p> <p>Note: This WDR may help some light condition environment, but will not be effective at all light conditions or application scenes.</p>
Power Frequency	Select correct light condition for the scene monitored: Outdoor, Indoor 50Hz power frequency (Europe, China, etc.) or 60Hz power frequency (US, Japan, etc.).

Flip	Pull down to choose to flip video either vertically, horizontal or both
IR CUT Setting	Set Manual or Automatic (IR Sensor control) to switch the mechanical IR_CUT.

Table 14: CMOS Settings

Audio Settings

This page allows users to configure the audio settings.

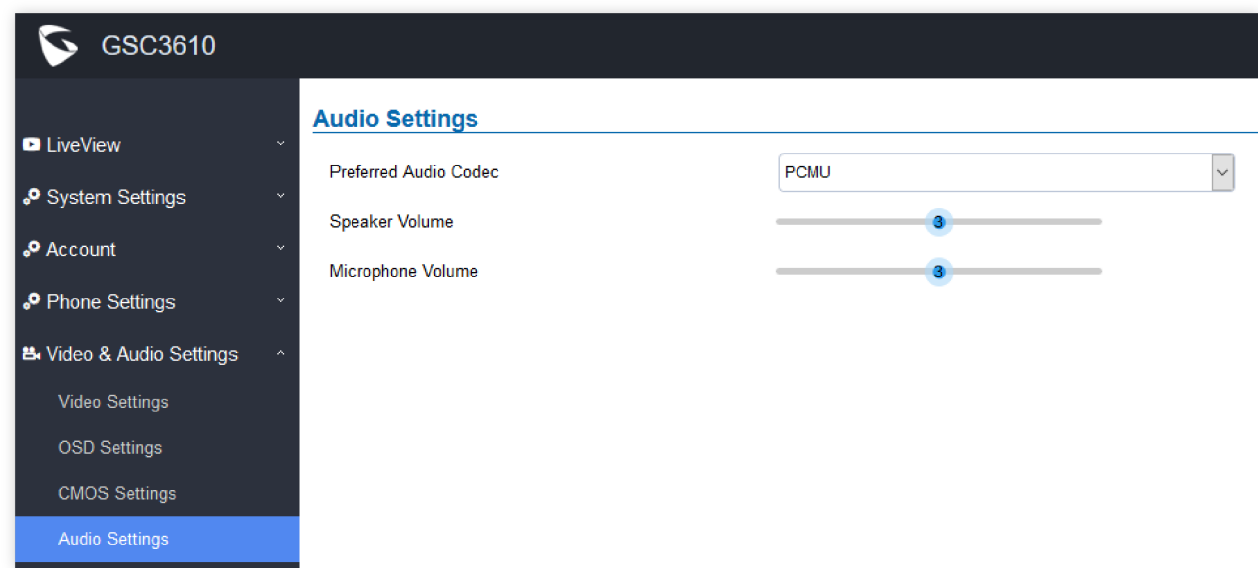


Figure 26: Audio Settings Page

Preferred Audio Codec	Configures the audio codec. Two codecs are available: PCMU and PCMA.
Speaker Volume	Adjusts the speaker volume connected.
Microphone Volume	Adjusts the Mic volume.

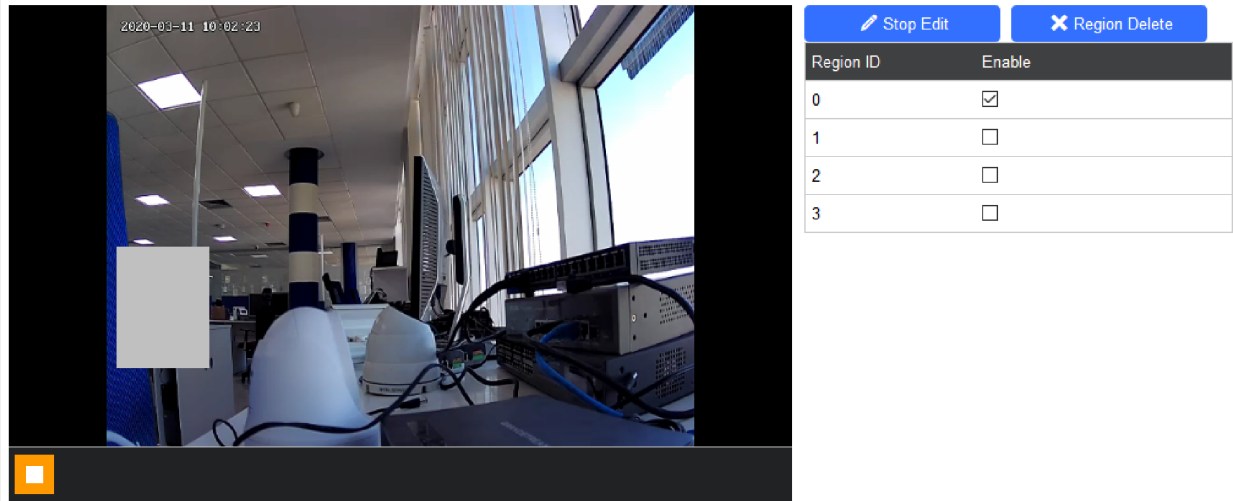
Table 15: Audio Settings

Privacy Masks

This page allows users to configure privacy masks up to 4 different regions by selecting different regions requiring privacy mask as displayed on the following figure.

When privacy mask enabled, the video at related region will be masked by black color and no video displayed inside that mask.

Privacy Masks



2020-03-11 10:02:23

Stop Edit Region Delete

Region ID	Enable
0	<input checked="" type="checkbox"/>
1	<input type="checkbox"/>
2	<input type="checkbox"/>
3	<input type="checkbox"/>

Figure 27: Privacy Masks Configuration Page

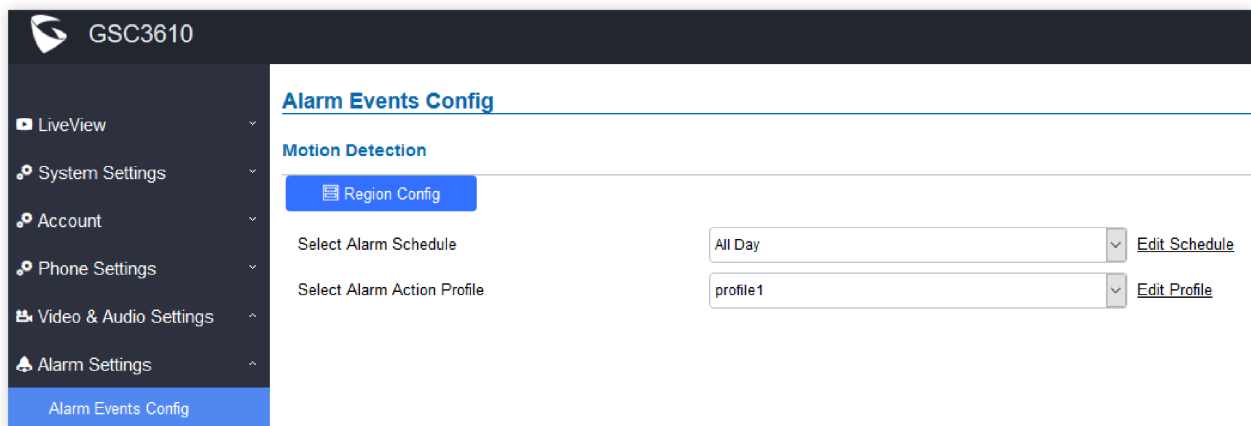
- Click **"Start Edit"** then long press and slide to identify a region
- Select a preconfigured region then Click **"Region Delete"** to remove it.

Alarm Settings

This page allows users to configure alarm schedule and alarm actions.

Alarm Events Config

This page allows users to configure GSC361X events to trigger programmed actions within predefined schedule.



GSC3610

LiveView

System Settings

Account

Phone Settings

Video & Audio Settings

Alarm Settings

Alarm Events Config

Alarm Events Config

Motion Detection

Region Config

Select Alarm Schedule: All Day [Edit Schedule](#)

Select Alarm Action Profile: profile1 [Edit Profile](#)

Figure 28: Events Page

Motion Detection

Users can select a specific region to trigger the alarm using motion detection.

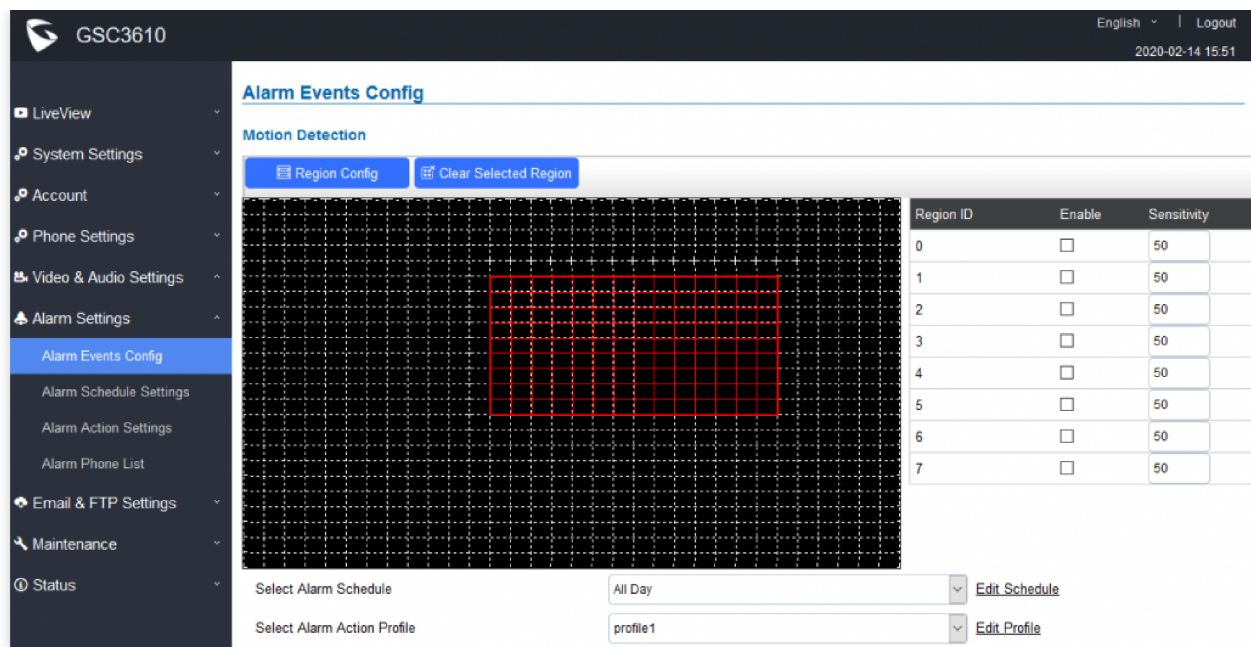


Figure 29: Region Config

Motion Detection Mode	<p>Users can select the desired Motion Detection Mode:</p> <ul style="list-style-type: none"> ◦ Default Alarm Mode: Single zone independent alarm. ◦ Sequence Alarm mode: Set the sequence of multi-zone alarms. Alarm will trigger if matched the configured zone sequence. ◦ Multi-zone Combined Alarm Mode: Alarm will trigger when number of combined alarming zones reaches the configured amount. ◦ Zone trigger Ratio Alarm Mode: Configure the ratio pf single small squares compared to the whole alarm zone, alarm will trigger when the ratio is reached.
Region Config	Configures the motion detection region. First click to access the Region Configuration menu and second click to quit.
Clear Selected Region	Selects a zone on the screen then click on "Clear" to delete the region.
Sensitivity	Specifies the region sensitivity (value between 0-100%).
Select Alarm Schedule	Selects the alarm schedule.
Select Alarm Action Profile	Selects the programmed Alarm Action profile.

Table 16: Motion Detection

Motion Detection Status Check API

This feature is implemented based on feedback from field customers.

Please use the following URL example to request the actual status of Motion Detection Status after configured and defined the related region:

https://192.168.5.169/goform/config?cmd=api_get_data&type=0

(the above IP address is an example of GSC361x IP camera)

Response Message:

<Configuration>

<MD_STATUS>1</MD_STATUS>

<RetMsg>OK</RetMsg>

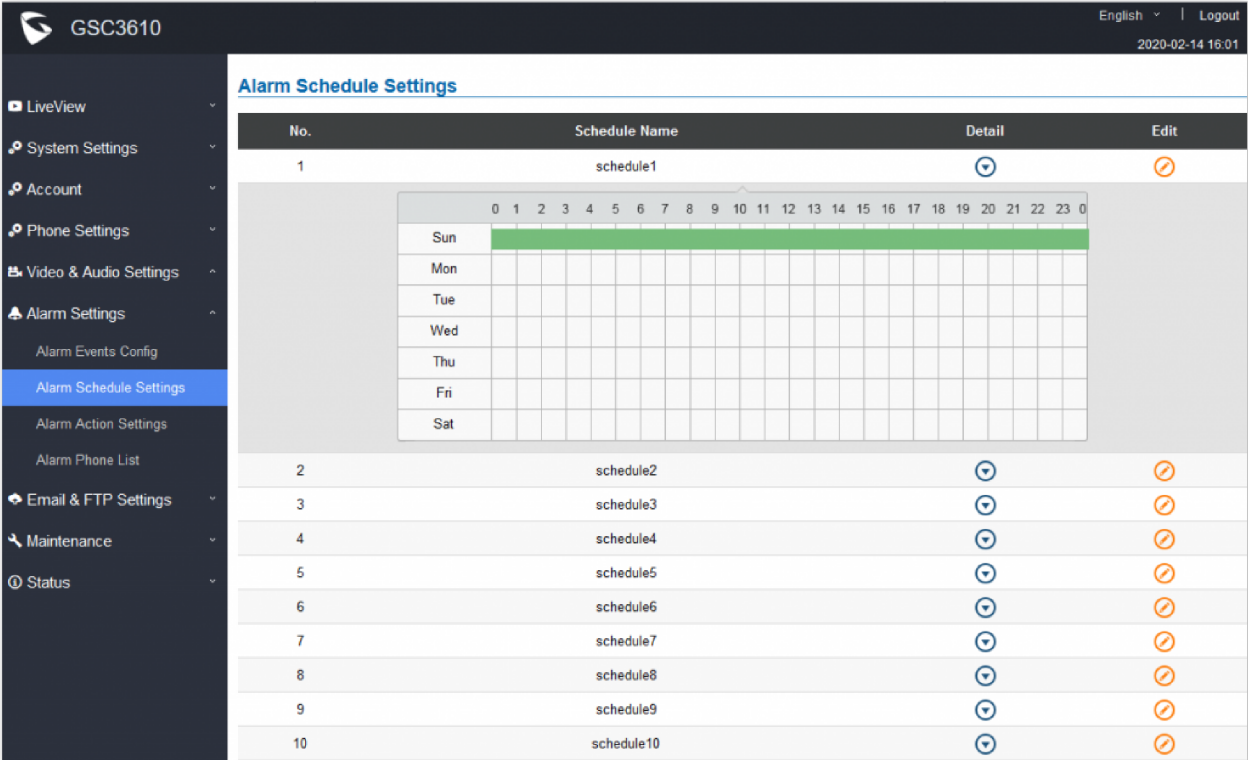
</Configuration>

Alarm Schedule Settings

This page specifies the configuration of Alarm Schedule.



Note

Schedule must be configured first to allow the alarm to take the related action.



No.	Schedule Name	Detail	Edit																																																																																																																																																																			
1	schedule1	<div><div>0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0</div><table><tr><td>Sun</td><td colspan="24">[Active]</td></tr><tr><td>Mon</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Tue</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Wed</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Thu</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Fri</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Sat</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table></div>	Sun	[Active]																								Mon																							Tue																							Wed																							Thu																							Fri																							Sat																							
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Figure 30: Alarm Schedule

GSC361X supports up to 10 alarm schedules to be configured, with time span specified by users. Users can View the schedule details by clicking  or Edit the alarm schedule by clicking  button. Usually the 24 hours' span is 00:00 ~ 23:59, which is 24 hours' format. Note that it is possible to copy the configuration to different date during the schedule programming using the banner at the bottom.

Audio Alarm to SIP Phone	If selected, GSC361X will call pre-configured (video or audio) phone and will play sound alarm.
Send Email	If selected, an email with snapshot will be sent to the pre-configured email destination.
Upload Snapshot	If selected, snapshots at the moment where the event is triggered will be sent to preconfigured destination (e.g.: FTP or email).

Table 17: Alarm Actions

Alarm Phone List

This page allows users to configure the Alarm Phone List, which are phone numbers or extensions list that the GSC361X will call out when event is triggered.

The screenshot shows the GSC3610 web interface. On the left is a dark sidebar with a menu. The 'Alarm Settings' section is expanded, and 'Alarm Phone List' is selected. The main content area has a title 'Alarm Phone List'. At the top of this area is a dropdown menu for 'Alarm Call Out Account' with 'Auto' selected. Below this is a list of 10 items, each labeled 'Alarm Phone List' followed by a number (1-10). Each item has a text input field to the right of the label and a small phone icon to the right of the input field.

Figure 34: Alarm Phone List

Alarm Call Out Account	Select the SIP Account to be used by the GSC361X when alarm out is triggered.
Alarm Phone List 1-10	Add or delete number from the phone alarm list. (When IP address is used then the port needs to be appended, example: 192.168.1.12:5060).

Table 18: Alarm Phone List

Once the event is triggered the GSC361X will call the first number, once time out is reached and no answer is returned from the first number, the GSC3610 will try the next number on the list and so on. Once the remote phone answers the call, an alarm will be played to notify users that an event is triggered.

Email & FTP Settings

This page contains Email and FTP Settings.

Email Settings

This page allows users to configure email client to send out an email when the alarm is triggered.

GSC3610

SMTP

SMTP Server

SMTP Server Port

From E-Mail Address

Sender Email ID

Sender Email Password

Alarm-To Email Address 1

Alarm-To Email Address 2

SSL ☐

Figure 35: Email Settings – SMTP Page

SMTP Server	Configures the SMTP Email Server IP or Domain Name.
SMTP Server Port	Specifies the Port number used by server to send email.
From E-mail address	Specifies email address of alarm email sending from, usually client email ID.
Sender Email ID	Specifies sender's User ID or account ID in the email system used.
Sender Email Password	Specifies sender's password of the email account.
Alarm-To Email Address 1	Specifies the 1 st email address to receive the alarm email.
Alarm-To Email Address 2	Specifies the 2 nd email address to receive the alarm email.
SSL	Check if the SMTP email server requires SSL.

Table 19: Email Settings – SMTP

Notes:

- Click "Save" to save the email configuration information.
- Click "Email Test" after configuration, if settings are correct, a test email will send out and "E-mail test successfully" message on the top page will appear.

FTP

This page allows users to configure the FTP Settings in order to upload capture images.

FTP Server	Configures the IP address of the FTP server when selected to upload images to.
FTP Server Port	Specifies the FTP address port.
FTP Username	Specifies the FTP server account name.

FTP Password	Specifies the FTP server password.
FTP Path	Specifies the storage path.
FTP Test	Click to test the connection with FTP server.

Table 20: Picture Storage Settings

Figure 36: Picture Storage Settings

Note

- If the connection to the FTP server is successful, a ".txt" file containing a success message will be uploaded to the FTP server. And the following message will pop up on the Web GUI FTP test successfully.

Maintenance Settings

This page shows the GSC361X Maintenance parameters.

Upgrade

This page contains the upgrade and provisioning parameters of the GSC361X.

LiveView

System Settings

Account

Phone Settings

Video & Audio Settings

Alarm Settings

Email & FTP Settings

Maintenance

Upgrade

Reboot & Reset

Debug Log

Data Maintenance

Event Notification

Certificates

Status

Upgrade

Firmware

Upgrade Via

HTTP

Firmware Server Path

fm.grandstream.com/gs

HTTP/HTTPS User Name

HTTP/HTTPS Password

Firmware File Prefix

Firmware File Postfix

Config

Upgrade Via

HTTPS

Config Server Path

fm.grandstream.com/gs

HTTP/HTTPS User Name

HTTP/HTTPS Password

Config File Prefix

Config File Postfix

XML Config File Password

Validate Server Certificates

☐

Enable DHCP Option 66 Override Server

☒

Zero Config

☒

Enable DHCP Option 120 Override SIP Server

☐

Automatic Upgrade

☐ No
☒ Yes, check for every 10080 minute(s)
☐ Yes, check for every day
☐ Yes, check for every week

Randomized Automatic Upgrade

☐

Hour of the Day (0-23)

Start 1 End 23

Day of the Week (0-6)

1

Save

Figure 37: Upgrade Page

Table 21: Upgrade

Firmware	
Upgrade Via	Selects the upgrade method (TFTP, HTTP, or HTTPS).
Firmware Server Path	Configures the IP address or the FQDN of the upgrade server.
HTTP/HTTPS Username	The username for the HTTP/HTTPS server.
HTTP/HTTPS Password	The password for the HTTP/HTTPS server.
Firmware File Prefix	Enables your ITSP to lock configuration updates. If configured, only the firmware file with the matching encrypted prefix will be downloaded and flashed into the phone.

Firmware File Postfix	Enables your ITSP to lock firmware updates. If configured, only the firmware with the matching encrypted postfix will be downloaded and flashed into the phone.
Config	
Upgrade via	Selects the upgrade method (TFTP, HTTP, and HTTPS).
Config Server Path	Configures the IP address or the FQDN of the configuration server.
HTTP/HTTPS Username	The username for the HTTP/HTTPS server.
HTTP/HTTPS Password	The password for the HTTP/HTTPS server.
Config File Prefix	Enables your ITSP to lock configuration updates. If configured, only the configuration file with the matching encrypted prefix will be downloaded and flashed into the phone.
Config File Postfix	Enables your ITSP to lock configuration updates. If configured, only the configuration file with the matching encrypted postfix will be downloaded and flashed into the phone.
XML Config File Password	Specifies the password for the configuration file.
Validate Server Certificate	Enable this option in order to validate certificate with trusted ones during TLS connection.
Enable DHCP Option 66 Override Server	Activates DHCP option 66 to override upgrade/config servers.
Zero Config	Enables Zero Config feature for auto provisioning.
Enable DHCP Option 120 Override SIP Server	Enables DHCP Option 120 from local server to override the SIP Server on the phone. The default setting is enabled.
Automatic Upgrade	Enables automatic upgrade and provisioning. Set schedule for provisioning for either every X minute, every day, or every week. Default is No.
Randomized Automatic Upgrade	Enable and define the start/End hours of the day and days of the week where the GSC361X will randomly checking for update.

Reboot & Reset

This page allows user to reboot and reset the GSC361X.

Reboot & Reset

Reboot

Reboot

Auto Reboot

☐

Everyday

00

:

00

Reset

Reset

Figure 38: Reset & Reboot Page

Table 22: Reset & Reboot

Reboot	When clicked, the GSC361X will restart (soft reboot).
Auto Reboot	Users can configure the device to reboot itself at specific time every day or particular day at every week, to make sure the IP camera is running smooth and provide stable and reliable operations.
Reset	Restore Factory Default Settings

Debug Log

This page allows user to configure SYSLOG to collect information to help troubleshooting issues with GSC361X.

Figure 39: Debug Log Page

- Five levels of Debugging are available, None, Debug, Info, Warning, Error.
- Once the Syslog Server and the level entered, press "Save" and then Reboot the device to apply the settings.

Data Maintenance

This page allows users to manage the GSC361X configuration file by importing/exporting configuration files.

Figure 40: Data Maintenance Page

Note

- Click on [Export](#) to save the GSC361X configuration in a predefined directory.
- Users can either select to include all the passwords (SIP, FTP, Remotes access...) on the configuration files exported or not including the passwords as displayed on the previous figure.

Event Notification

This page allows users to configure the event notification details that will be used by GSC361X to communicate to an HTTP server to log the events. When the feature is enabled and configured, all the event logs will be uploaded to server:

Event Notification

Enable Event Notification ☐

Via Type **HTTP**

HTTP Method **POST**

HTTP/HTTPS Server

HTTP/HTTPS Server Username

HTTP/HTTPS Server Password

URL Template

Template Variables

`${MAC}` : MAC Address
`${TYPE}` : Event Type
`${WARNING_MSG}` : Event Message
`${DATE}` : Date & Time
`${SIPNUM}` : Sip Number

Template Samples

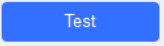
1: ["mac":"\${MAC}","content":"\${WARNING_MSG}"]
2: <body><mac>\${MAC}</mac><content>\${WARNING_MSG}</content></body>
3: mac=\${MAC}&content=\${WARNING_MSG}

Figure 41: Log Manager Page

Table 23 : Log Manager Settings

Enable Event Notification	Enables Event Notification feature
Via Type	Choose which protocol will be used to connect to the logs server (HTTP or HTTPS).
HTTP Method	Choose which type of HTTP(s) request to send (GET or POST)
HTTP/HTTPS Server	Enter the IP address of domain name for the logs server.
HTTP Server Username	Configure the username of your HTTP(s) server
HTTP Server Password	Configure the password of your HTTP(s) server

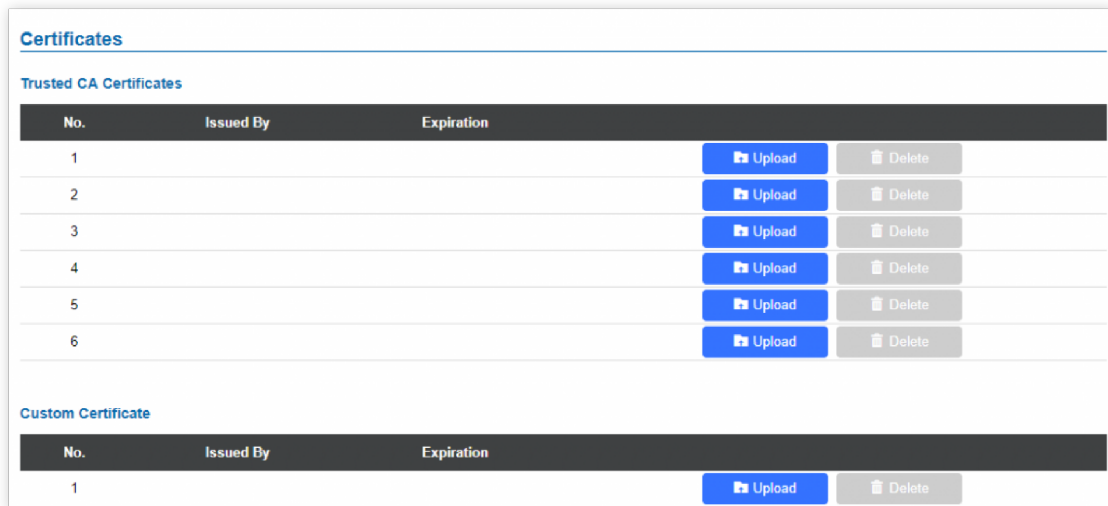
URL Template	<p>Specify the template for the event log messages that will be sent to the server, users can use the following variables to customize the message:</p> <ul style="list-style-type: none"> ◦ \${MAC}: MAC Address ◦ \${TYPE}: Event Type ◦ \${WARNING_MSG}: Event Message ◦ \${DATE}: Date & Time ◦ \${SIPNUM}: SIP Number
---------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

- User can test the configuration by clicking on  button at the bottom.

Note: When an alarm is detected (Motion detection) the GSC361xx will send the HTTP(s) URL configured.













Certificates

This page allows users to upload up to 6 Trusted CA certificate files which will be trusted by the GSC361X during SSL exchange. Also, users are allowed to configure the device with custom certificate signed by custom CA certificate under the Custom Certificate section.



Certificates

Trusted CA Certificates

No.	Issued By	Expiration		
1			 Upload	 Delete
2			 Upload	 Delete
3			 Upload	 Delete
4			 Upload	 Delete
5			 Upload	 Delete
6			 Upload	 Delete

Custom Certificate




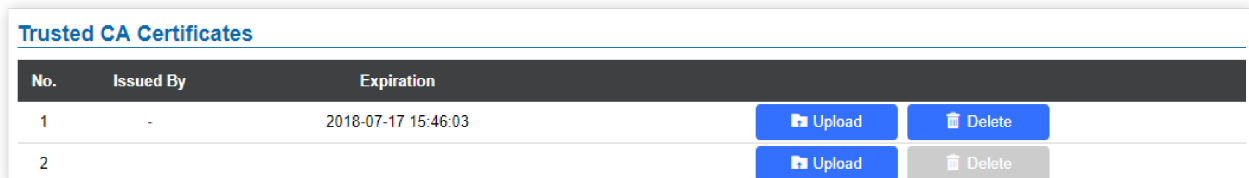
No.	Issued By	Expiration		
1			 Upload	 Delete

Figure 42: Upload Certificate files

In order to upload your Trusted CA certificate, you may proceed as follows:

- Click on  Upload button to upload a file and some related information to the uploaded file will be displayed, such as **"Issued by"** and **"Expiration date"**.



Trusted CA Certificates







No.	Issued By	Expiration		
1	-	2018-07-17 15:46:03	 Upload	 Delete
2			 Upload	 Delete

Figure 43: Trusted CA Certificates

- Users could press  Delete to delete one of the files.

In order to upload your Custom certificate, you may proceed as follows:

- Click on  Upload button to upload a file and some related information to the uploaded file will be displayed, such as **"Issued by"** and **"Expiration date"**.

Custom Certificate		
No.	Issued By	Expiration
1		
		Upload Delete

Figure 44: Custom certificate

Status

This page displays GSC361X system and network information.

Account Status

This page displays of configured accounts' SIP user ID, SIP server as well as the SIP Registration status, from Account 1 to Account 4.

Note

- When the SIP account is registered, the SIP Registration status display will be Online
- When SIP account is unregistered, the SIP Registration status display will be Offline

<div>LiveView</div> <div>Door System Settings</div> <div>System Settings</div> <div>Account</div> <div>Phone Settings</div> <div>Video & Audio Settings</div> <div>Alarm Settings</div> <div>Email & FTP Settings</div> <div>Maintenance</div> <div>Status</div> <div>Account Status</div> <div>System Info</div> <div>Network Info</div>	Account Status			
	Account	SIP User ID	SIP Server	SIP Registration Status
	Account 1	3000	192.168.5.100	Offline
	Account 2	3001	192.168.5.100	Online
	Account 3	3002	192.168.5.187	Offline
	Account 4	3003	192.168.5.187	Offline

Figure 45: System Info Page

System Info

This page displays information such as the product model, the hardware version, firmware...

LiveView

System Settings

Account

Phone Settings

Video & Audio Settings

Alarm Settings

Email & FTP Settings

Maintenance

Status

Account Status

System Info

Network Info

GNU GPL License

System Info

Product Model	GSC3620
Hardware Version	V1.0A
Part Number	9670007410A
Serial Number	21JD61GLB036D293
Boot Version	1.0.7.7
Core Version	1.0.7.7
Base Version	1.0.7.7
Prog Version	1.0.7.7
CPE Version	1.0.1.147
System Uptime	5 hours 22 minutes

Firmware Status

UP TO DATE: 1.0.7.7

Check

System Info Page

Note

The CPE feature enhancement will allow centralized management and provisioning of mass product operations. This is integrated with UCMRC or GDMS solutions. With GDMS management, customers can manage, provision the GSC36XX from GDMS platform. For detailed management and usage of this feature, please refer to Grandstream Device Management System (GDMS) product page: <https://documentation.grandstream.com/article-categories/gdms/>

Table 24: System Info

Product Model	Displays the Product Model.
Hardware Version	Displays the Hardware Version.
Part Number	Displays the Part Number.
Boot Version	Displays the Boot Version.
Core Version	Displays the Core Version.
Base Version	Displays the Base Version.
Prog Version	Displays the Prog Version.
CPE Version	Displays the CPE Version.
System Up Time	Displays the time since the first boot of the GSC361X.
Firmware Status	Click the <div>Check</div> button to check whether the firmware in the firmware server has an updated version, if so, update immediately.

Network Info

This page displays the network system information of GSC361X.

Network Info	
MAC Address	C0:74:AD:16:2F:53
IP Address Mode	DHCP
IP Address	192.168.0.160
Subnet Mask	255.255.0.0
Gateway	0.0.0.0
DNS Server 1	0.0.0.0
DNS Server 2	0.0.0.0

Figure 47: Network Info Page

Table 25: Network Info

MAC Address	Displays the GSC MAC Address.
IP Address Mode	Displays the IP address mode used.
IP Address	Displays the IP address of the GSC361X.
Subnet Mask	Displays the Subnet Mask used.
Gateway	Displays the GSC361X Gateway.
DNS Server 1	Displays the Preferred DNS Server.
DNS Server 2	Displays the secondary DNS Server.

FACTORY RESET

Restore to Factory Default via Web GUI

To perform factory reset to the GSC361x via the Web GUI, please refer to following steps:

- 1. Access to GSC361x Web GUI using the using the shipped default password.
- 2. Navigate to **Maintenance →Reboot & Reset.**
- 3. Select the reset type from Rest drop down menu and press reset button as displayed on the following screenshot.



Hard Factory Reset Using GS Search

The GSC361x can be reset using the GS Search tool by following these steps :

1. Open the GS Search tool that can be downloaded from the [Grandstream tools page](#).

Index	Model	Version	Device Name	IP	HTTP Port	RTSP Port	MAC
4	IPCAMERA GXV361...	1.0.3.23	Training room	192.168.5.42	80	554	
5	IPCAMERA GXV361...	1.0.3.23	Smoking room	192.168.5.39	80	554	
6	IPCAMERA GXV361...	1.0.3.23	Server Room	192.168.5.34	80	554	
7	IPCAMERA GXV361...	1.0.3.23	Hall 1	192.168.5.31	80	554	
8	IPCAMERA GXV361...	1.0.3.23	Production 1	192.168.5.41	80	554	
9	IPCAMERA GXV361...	1.0.3.23	Meeting room	192.168.5.33	80	554	
10	IPCAMERA GXV361...	1.0.3.23	Production 2	192.168.5.38	80	554	
11	IPCAMERA GXV361...	1.0.3.23	Conf room	192.168.5.37	80	554	
12	INTERCOM GSC3506	HW V1.1B	GSC3506 v1.0.5.4	192.168.5.22	80	0	
13	IPCAMERA GXV361...	1.0.3.23	Production 1	192.168.5.137	443	554	
14	DOORDEV GDS3705	1.0.3.11	GDS3705	192.168.5.14	443	0	
15	DOORCAM GDS3710	1.0.11.23	GDS3710	192.168.5.12	443	554	
16	DOORCAM GDS3710	1.0.13.2	GDS3710	192.168.5.110	443	554	

Search Add

IP Address Configuration Facility Device Password Recovery

Old IP 192.168.5.137

☐ Use DHCP

New IP 0.0.0.0 Ping

Sub Net Mask 255.255.255.0

Gate Way 0.0.0.0

Modify IP Batch Modify

GS Search main interface.

2. Select the device in question, in our example it is the GSC361x, and then select Facility Device Password Recovery.

Search

Index	Model	Version	Device Name	IP	HTTP Port	RTSP Port	MAC
4	IPCAMERA GXV3611IR_HD	1.0.3.23	Meeting room	192.168.5.33	80	554	
5	IPCAMERA GXV3610_FHD	1.0.3.23	Hall 1	192.168.5.31	80	554	
6	IPCAMERA GXV3610_HD	1.0.3.23	Training room	192.168.5.42	80	554	
7	IPCAMERA GXV3611IR_HD	1.0.3.23	Server Room	192.168.5.34	80	554	
8	IPCAMERA GXV3610_HD	1.0.3.23	Production 1	192.168.5.41	80	554	
9	IPCAMERA GXV3610_HD	1.0.3.23	Production 2	192.168.5.38	80	554	
10	IPCAMERA GXV3611IR_HD	1.0.3.23	Smoking room	192.168.5.39	80	554	
11	IPCAMERA GXV3610_HD	1.0.3.23	Entrance Camera	192.168.5.30	80	554	
12	INTERCOM GDS3506	1.0.5.4	GDS3506 v1.0.5.4	192.168.5.22	80	0	
13	DOORDEV GDS3705	1.0.3.11	GDS3705	192.168.5.137	443	554	
14	DOORCAM GDS3705	1.0.3.11	GDS3705	192.168.5.14	443	0	
15	DOORCAM GDS3710	1.0.11.23	GDS3710	192.168.5.12	443	554	
16	DOORCAM GDS3710	1.0.13.2	GDS3710	192.168.5.110	443	554	

Search Add

IP Address Configuration Facility Device Password Recovery

Old IP 192 . 168 . 5 . 137

☐ Use DHCP

New IP 0 . 0 . 0 . 0 Ping

Sub Net Mask 255 . 255 . 255 . 0

Gate Way 0 . 0 . 0 . 0

Modify IP Batch Modify

GS Search – Selecting the device to be reseted

3. Enter the Default password of the unit which can be found in the stick on the device body or in the package box.
4. Perform the reset of the device by clicking the Reset button option.

Search

Index	Model	Version	Device Name	IP	HTTP Port	RTSP Port
5	IPCAMERA GXV3610_FHD	1.0.3.23	Hall 1	192.168.5.31	80	554
6	IPCAMERA GXV3611IR_HD	1.0.3.23	Conf room	192.168.5.37	80	554
7	IPCAMERA GXV3610_HD	1.0.3.23	Training room	192.168.5.42	80	554
8	IPCAMERA GXV3610_HD	1.0.3.23	Production 2	192.168.5.38	80	554
9	IPCAMERA GXV3611IR_HD	1.0.3.23	Server Room	192.168.5.34	80	554
10	IPCAMERA GXV3611IR_HD	1.0.3.23	Meeting room	192.168.5.33	80	554
11	IPCAMERA GXV3611IR_HD	1.0.3.23	Smoking room	192.168.5.39	80	554
12	INTERCOM GSC3506	Hw V1.1B	GSC3506 v1.0.5.4	192.168.5.22	80	0
13	IPCAMERA GDS3710	1.0.11.23	GDS3710	192.168.5.137	443	554
14	DOORCAM GDS3710	1.0.11.23	GDS3710	192.168.5.12	443	554
15	DOORDEV GDS3705	1.0.3.11	GDS3705	192.168.5.14	443	0
16	DOORCAM GDS3710	1.0.13.2	GDS3710	192.168.5.110	443	554

Search Add

IP Address Configuration Facility Device Password Recovery

Mac Address

IP Address

Default Password

☐ Only recovery web password

☒ Reset

OK

GS Search – Resetting the device

5. You have the possibility to recover the initial default web password as well by selecting the option “only recover web password”

The screenshot shows the GS Search application window. At the top is a search bar. Below it is a table listing various devices. The table has columns for Index, Model, Version, Device Name, IP, HTTP Port, and RTSP Port. Below the table are 'Search' and 'Add' buttons. Underneath these are two tabs: 'IP Address Configuration' and 'Facility Device Password Recovery'. The 'Facility Device Password Recovery' tab is active, showing a form with fields for Mac Address, IP Address (192.168.5.137), and Default Password. Below these fields are two radio buttons: 'Only recovery web password' (which is selected and highlighted with a red box) and 'Reset'. An 'OK' button is at the bottom of the form.

Index	Model	Version	Device Name	IP	HTTP Port	RTSP Port
5	IPCAMERA GXV3610_FHD	1.0.3.23	Hall 1	192.168.5.31	80	554
6	IPCAMERA GXV3611IR_HD	1.0.3.23	Conf room	192.168.5.37	80	554
7	IPCAMERA GXV3610_HD	1.0.3.23	Training room	192.168.5.42	80	554
8	IPCAMERA GXV3610_HD	1.0.3.23	Production 2	192.168.5.38	80	554
9	IPCAMERA GXV3611IR_HD	1.0.3.23	Server Room	192.168.5.34	80	554
10	IPCAMERA GXV3611IR_HD	1.0.3.23	Meeting room	192.168.5.33	80	554
11	IPCAMERA GXV3611IR_HD	1.0.3.23	Smoking room	192.168.5.39	80	554
12	INTERCOM GSC3506	HW V1.1B	GSC3506 v1.0.5.4	192.168.5.22	80	0
13	IPCAMERA GSC3610			192.168.5.137	443	554
14	DOORCAM GDS3710	1.0.11.23	GDS3710	192.168.5.12	443	554
15	DOORDEV GDS3705	1.0.3.11	GDS3705	192.168.5.14	443	0
16	DOORCAM GDS3710	1.0.13.2	GDS3710	192.168.5.110	443	554

GS Search – Resetting the web password

Restore to Factory Default Via SIP NOTIFY

1. Access your GSC361x UI by entering its IP address in your favorite browser.
2. Go to Phone Settings.
3. Enable “**Allow Reset Via SIP NOTIFY**” by checking this option. (Default is disabled)
4. Once a **SIP NOTIFY** with “**event: reset**” is received, the GSC361x will perform factory reset after authentication phase.

Notes

- Received SIP NOTIFY will be first challenged for authentication purpose before taking factory reset action.
- The authentication can be done either using admin password (if no SIP account is configured) or via SIP account credentials (SIP User ID and Password).

CHANGE LOG

This section documents significant changes from previous versions of the user manual for the GSC361X Series. Only major new features or major document updates are listed here. Minor updates for corrections or editing are not documented here.

Firmware Version 1.0.3.8

Product name: GSC3610/GSC3615

- Added support for the feature “SIP URI Scheme When Using TLS”. [[SIP URI Scheme When Using TLS](#)]

- Added support for the feature “Support SIP Instance ID”. [[Support SIP Instance ID](#)]
- Extended OSD text length. [[OSD Text](#)]

Firmware Version 1.0.7.7

Product name: GSC3620

- Added CPE version displayed in System Info under Status page. [[System Info](#)]

Firmware Version 1.0.7.5

Product name: GSC3620

- Added support for GSC3610/GSC3615 new hardware version: 1.0D.

Firmware Version 1.0.3.7

Product name: GSC3610/GSC3615

- Added ability to trigger HTTP command. [Event Notification]
- Added error prompt when alarm action profile name to blank. [Alarm Action Settings]
- Added support for HTTP GET Method. [Event Notification]

Firmware Version 1.0.3.5

Product name: GSC3610/GSC3615

- Added GDMS/TR069 support. [TR069]
- Added API command to check the motion detection status. [Motion Detection Status Check API]
- Added auto reboot feature. [Auto Reboot]
- Added Sequence Alarm Mode, Multi-zone Combined Alarm Mode, and Zone Trigger Ratio Alarm Mode in Motion Detection. [Motion Detection]

Firmware Version 1.0.1.19

Product name: GSC3610/GSC3615

- Added WDR Support. [[WDR](#)]
- Added 720p(HD), D1 resolution support in 2nd stream. [[Resolution](#)]
- Added SIP UPnP NAT Traversal. [[UPnP NAT Traversal](#)]

Firmware Version 1.0.1.13

Product name: GSC3610/GSC3615

- This is the initial version.

Need Support?

Can't find the answer you're looking for? Don't worry we're here to help!

[CONTACT SUPPORT](#)