

Grandstream Networks, Inc.

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GSC361X Series

FHD Infrared Weatherproof, IP Dome/Box Camera

**User Manual**



**GSC3610**



**GSC3615**



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## **CAUTION**

Changes or modifications to this product not expressly approved by Grandstream, or operation of this product in any way other than as detailed by this guide, could void your manufacturer warranty.

## **WARNING**

Please do not use a different power adaptor with devices as it may cause damage to the products and void the manufacturer warranty.



## FCC Caution

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



## GNU GPL INFORMATION

GSC3610/GSC3615 firmware contains third-party software licensed under the GNU General Public License (GPL). Grandstream uses software under the specific terms of the GPL. Please see the GNU General Public License (GPL) for the exact terms and conditions of the license.

Grandstream GNU GPL related source code can be downloaded from Grandstream web site from:

[https://www.grandstream.com/sites/default/files/Resources/GSC361X\\_gpl.zip](https://www.grandstream.com/sites/default/files/Resources/GSC361X_gpl.zip)



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## DOCUMENT PURPOSE

This document describes how to configure the GSC3610/GSC3615 via web UI menu to fully manipulate device's features. Please visit <https://www.grandstream.com/support> to download the latest "GSC361X User Manual".

This guide covers following topics:

- [Product Overview](#)
- [Getting Started](#)
- [Hardware Installation](#)
- [GSC3610/GSC3615 Web GUI](#)
- [GSC361X Settings](#)
- [Experiencing the GSC3610/GSC3615](#)



## CHANGE LOG

This section documents significant changes from previous versions of user manual for 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

- Added support for Cisco WebEx network. [Cisco WebEx Compatibility]
- Added Web UI option “SIP URI Scheme When Using TLS”. [Account 1 - 4]
- Added Web UI option “Support SIP Instance ID”. [Account 1 - 4]
- Extended OSD text length to 48. [OSD Settings]
- Added support for Notify Message without a reboot “check-sync, reboot = false”.

### Firmware Version 1.0.3.7

- 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

- 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

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

### Firmware Version 1.0.1.13

- This is the initial version.



## 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:

**Table 1: GSC3610/GSC3615 Features in a Glance**

<p><b>GSC3610</b></p> 	<ul style="list-style-type: none"> <li>• Motion detection</li> <li>• Smart infrared technology for optimal white balance and exposure</li> <li>• Built-in PoE to power the device and provide a network connection</li> <li>• Alert notifications via outbound voice or video call &amp; email screenshot</li> <li>• IP67-level weatherproof capability</li> <li>• Primary stream 1920x1080 and Secondary stream 640x480</li> <li>• SIP/VoIP support for video and audio streaming to endpoints (external microphone required)</li> </ul>
<p><b>GSC3615</b></p> 	

### GSC3610/GSC3615 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.

**Table 2: GSC3610/GSC3615 Technical Specifications**

<b>Network Protocol</b>	SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, SSH, TFTP, NTP, STUN, LLDP-MED, TLS, SRTP
<b>Image Sensor Resolution</b>	1/2.9" CMOS Sensor, 1920(H)*1080(V) (2M)
<b>Video Compression</b>	H.264/JPEG/MJPEG
<b>Supported Maximum Video Resolution</b>	Primary Stream: 1920*1080; 1280*960; 1280*720 Secondary Stream: 1280*720; 704*576; 640*480; 352*288; 320*240
<b>Video Output</b>	Network
<b>Audio</b>	1 x 3.5mm Line-In Port; 1 x 3.5mm Line-Out Port



<b>Scanning System</b>	Progressive
<b>Image Configuration</b>	Saturation/Brightness/Contrast/Sharpness, White Balance
<b>Focal Length</b>	Fixed 3.6mm
<b>Infrared LED</b>	2x LED, up to 20M, Auto Control
<b>Ethernet</b>	One RJ-45 (10/100Base-T) Port with PoE
<b>ONVIF</b>	Yes, Profile S
<b>Day/Night</b>	Color/ Black &White (IR-CUT)
<b>Motion Detection</b>	Supported
<b>Language Supported</b>	Multi-Language
<b>Privacy Mask</b>	4 Rectangular Zone
<b>Weatherproof Grade</b>	Metal, IP67-level weatherproof capability
<b>Power</b>	DC12V±10%,1A (Power Adapter NOT Included) PoE: Support IEEE 802.3af
<b>Temperature / Humidity</b>	-20 °C ~ 50 °C, RH95% Max
<b>Weight and Dimensions</b>	109 x 93mm, 390g
<b>Compliance</b>	FCC, CE, RCM, IC



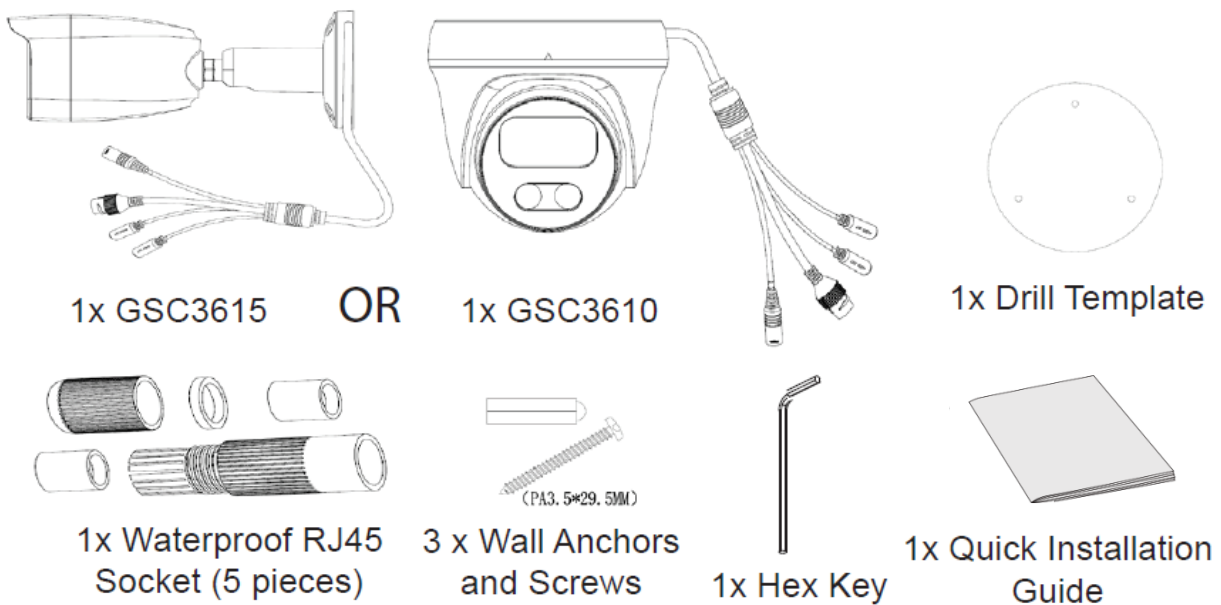
## GETTING STARTED

This chapter provides basic installation instructions including the list of the packaging contents and also information for obtaining the best performance with the GSC3610/GSC3615.

### Equipment Packaging

**Table 3: Equipment Packaging**

GSC3610/GSC3615
<ul style="list-style-type: none"> <li>• 1x GSC3610/GSC3615 Main Case.</li> <li>• 1x Drill Template</li> <li>• 1x Hex Key</li> <li>• 1x Waterproof RJ45 Socket (5 pieces)</li> <li>• 3x Wall Anchors and Screws</li> <li>• 1x Quick Installation Guide.</li> </ul>



**Figure 1: GSC3610/GSC3615 Package Content**

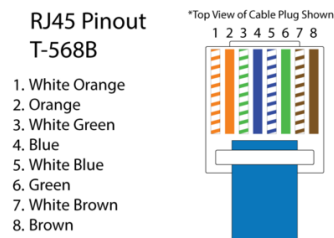
**Note:** Check the package before installation. If you find anything missing, contact your system administrator.

## 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)

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



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

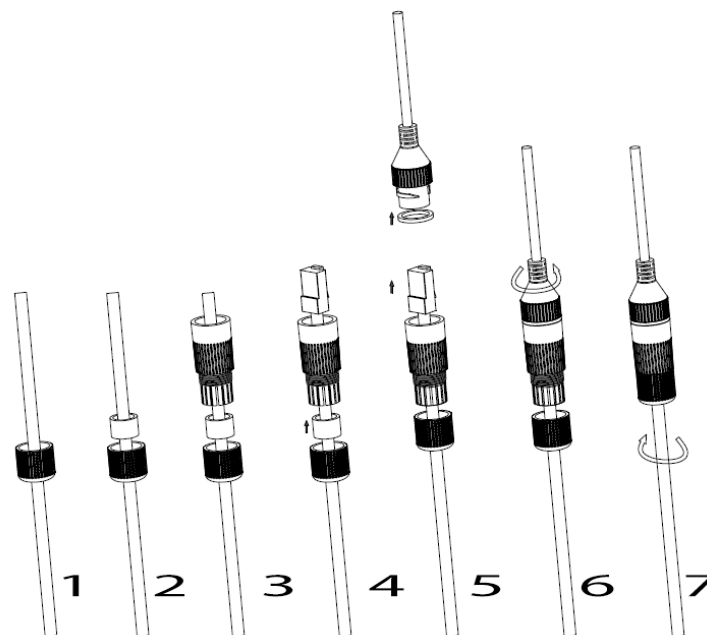


Figure 2: RJ45 plug installation

### 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.

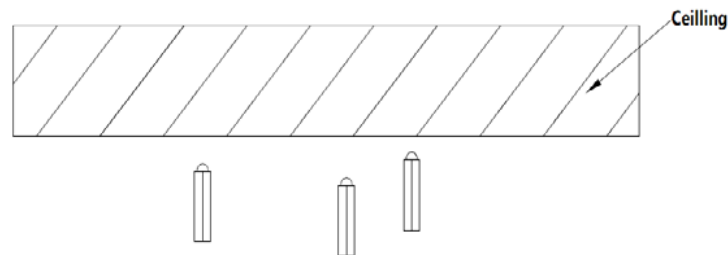




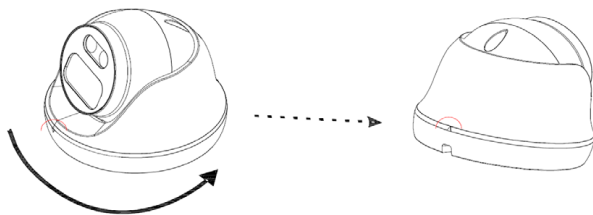
# HARDWARE INSTALLATION

## Mounting GSC3610

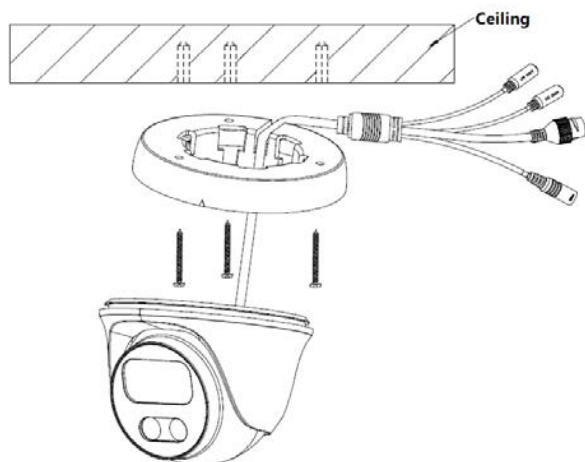
**Step 1:** Use supplied drill template to drill holes at ceiling. Select appropriate anchors or screws based on ceiling material.



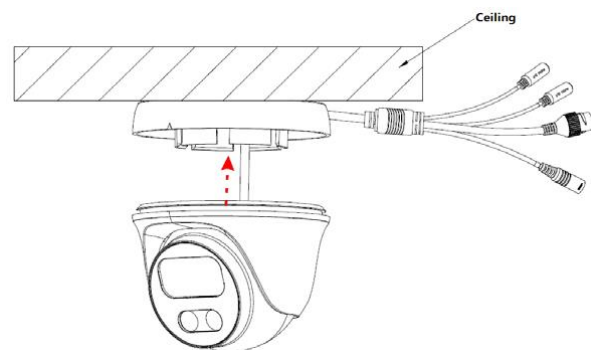
**Step 2:** Remove the top cover of the camera by turning it counterclockwise as shown in the figure below. Refer to the arrow and small notch on the machine body as shown below to align the machine cover.



**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.

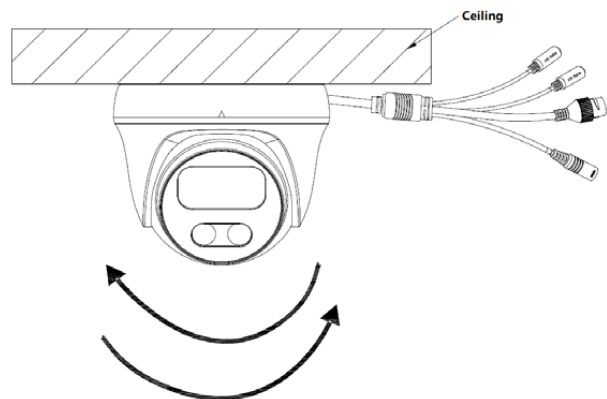
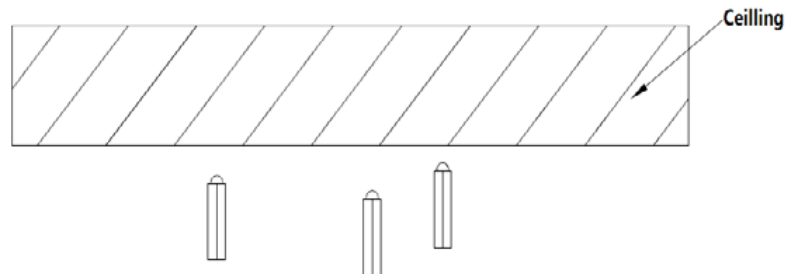


Figure 3: Mounting GSC3610



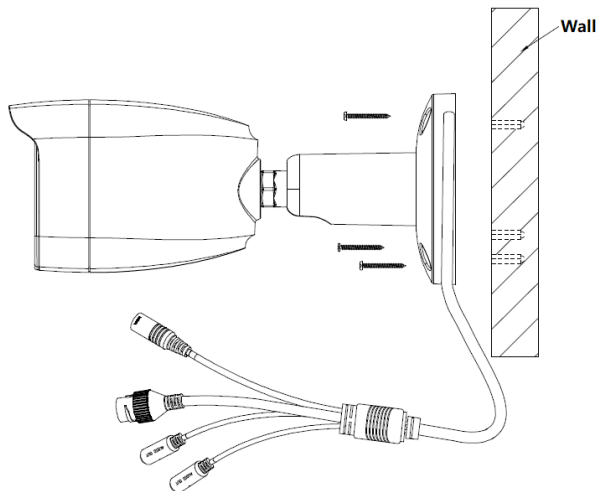
## Mounting GSC3615

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

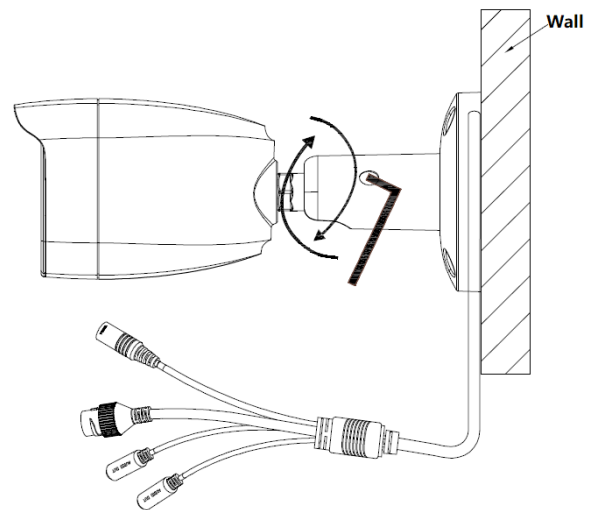


**Step 2:**

Place the cable into the groove of camera mounting base, mount the base at wall using provided screws as shown in below diagram. Leave the connectors of cable dangling outside the cover.



**Step 3:** Use the provided hex key to lose the fix screw, rotate and adjust the camera to the appropriate angle and position.



**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.

Figure 4: Mounting GSC3615



## GSC361X APPLICATION SCENARIOS

GSC361X is 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:

5. Router (if DHCP configured than static IP is not required although still recommended)
6. iPhone or Android phone. (Application like “IP Cam Viewer”)

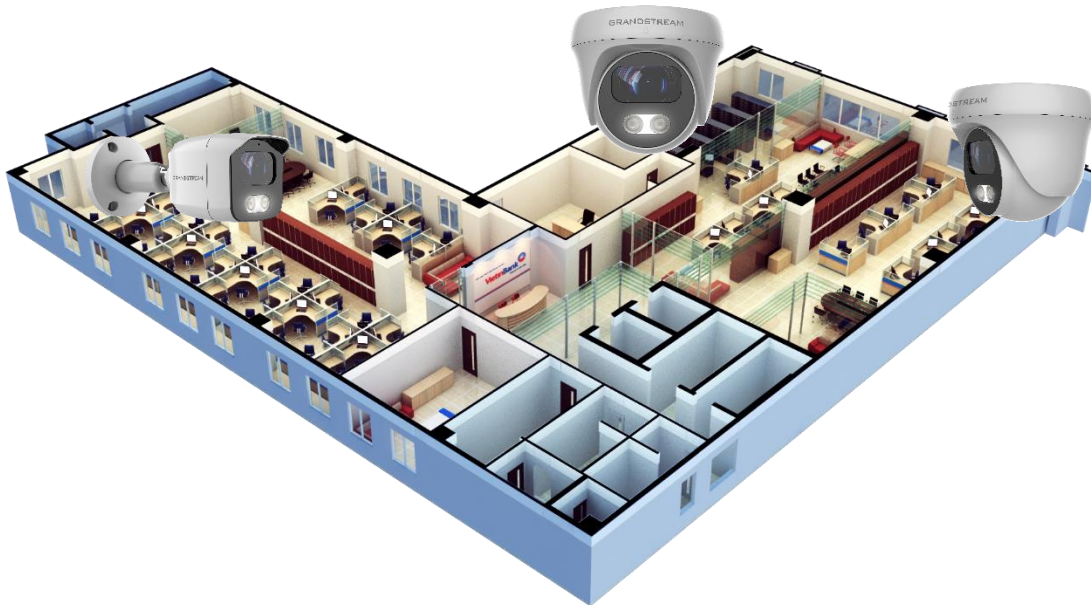


Figure 5: GSC3610/GSC3615 Working in LAN



## 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.

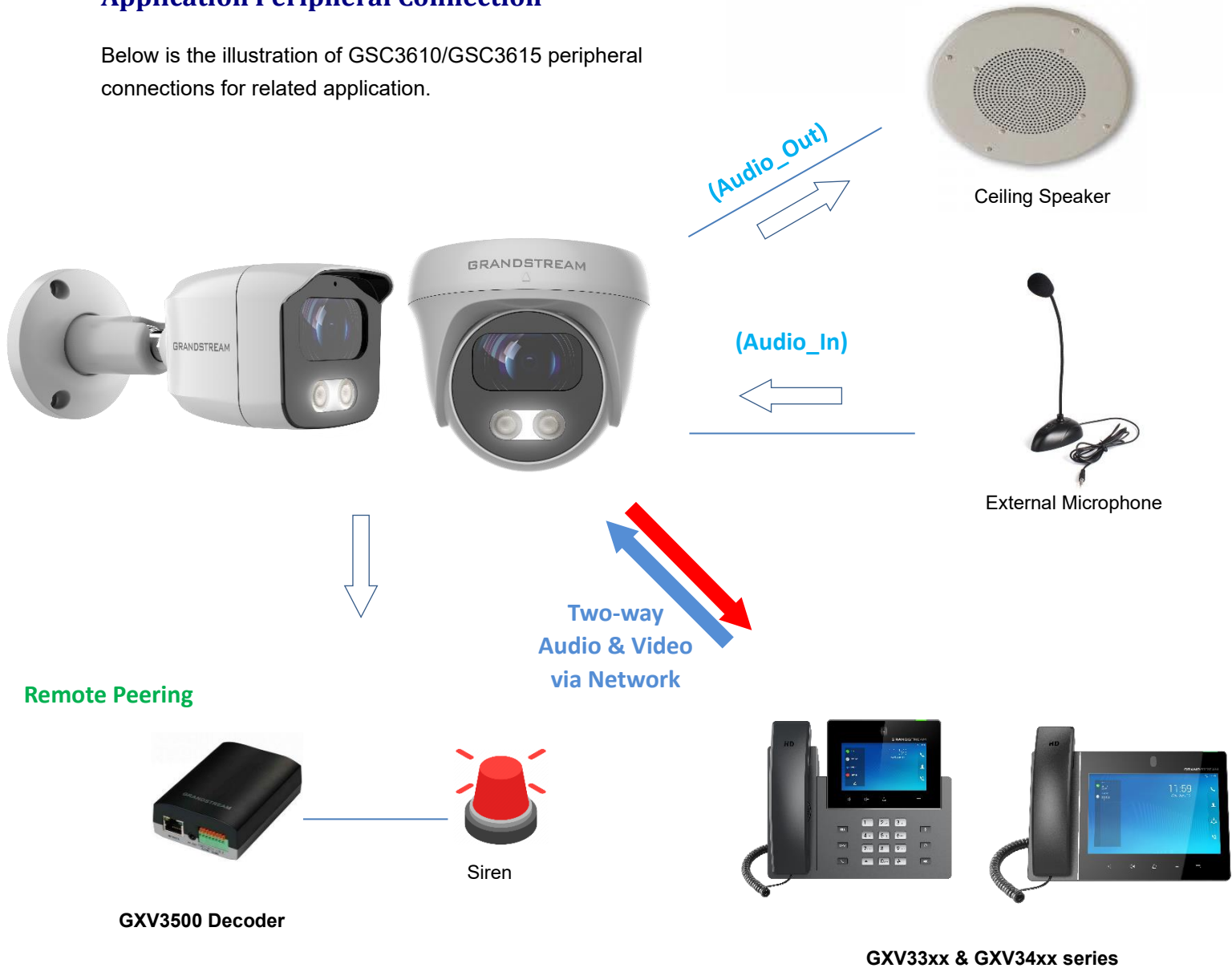


Figure 7: Application Peripheral Connection for GSC3610/GSC3615

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

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

- Grandstream Phones can work with GSC3610/GSC3615 (video stream using GXV33xx & GXV34xx series 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/GSC3615 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:

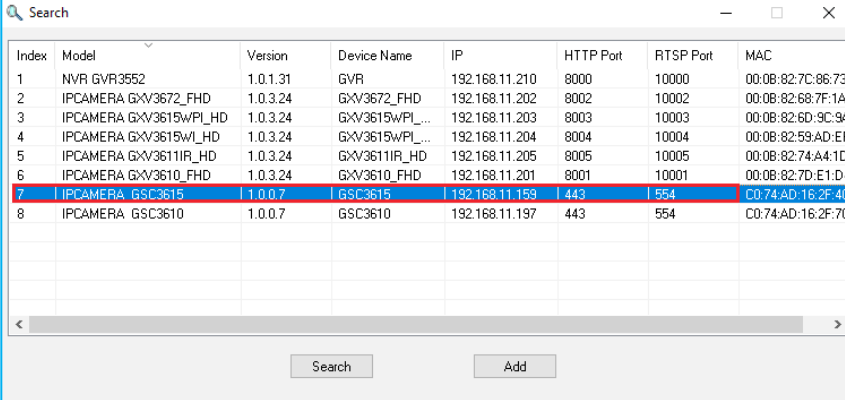
1. Find the “Network” icon  on the windows Desktop.
2. Click the icon to get into the “Network”, the GSC361Xs will list as “Other Devices” shown. Refresh the pages if nothing displayed. Otherwise, the UPnP may not be active in the network.
3. Click on the displayed icon of related GSC361X, the default 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:

1. Download and install GS\_Search tool from the link below:  
[https://www.grandstream.com/products/tools/surveillance/GS\\_Search.zip](https://www.grandstream.com/products/tools/surveillance/GS_Search.zip)
2. Run the Grandstream GS\_Search tool.
3. Click on  button to start device detection.
4. The detected devices will appear in the output field as below.

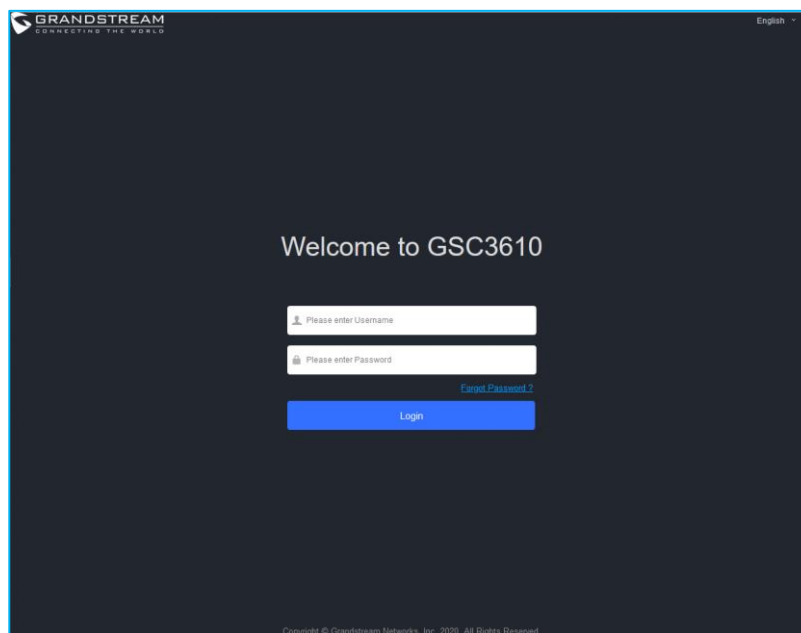




Index	Model	Version	Device Name	IP	HTTP Port	RTSP Port	MAC
1	NVR GVR3552	1.0.1.31	GVR	192.168.11.210	8000	10000	00:08:82:7C:86:73
2	IPCAMERA G×V3672_FHD	1.0.3.24	G×V3672_FHD	192.168.11.202	8002	10002	00:08:82:68:7F:1A
3	IPCAMERA G×V3615WPL_HD	1.0.3.24	G×V3615WPL_...	192.168.11.203	8003	10003	00:08:82:6D:9C:9A
4	IPCAMERA G×V3615WPL_HD	1.0.3.24	G×V3615WPL_...	192.168.11.204	8004	10004	00:08:82:59:AD:EF
5	IPCAMERA G×V3611IR_HD	1.0.3.24	G×V3611IR_HD	192.168.11.205	8005	10005	00:08:82:74:A4:1D
6	IPCAMERA G×V3610_FHD	1.0.3.24	G×V3610_FHD	192.168.11.201	8001	10001	00:08:82:7D:E1:D7
7	IPCAMERA GSC3615	1.0.0.7	GSC3615	192.168.11.159	443	554	C0:74:AD:16:2F:4C
8	IPCAMERA GSC3610	1.0.0.7	GSC3610	192.168.11.197	443	554	C0:74:AD:16:2F:7C

**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).
- 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:

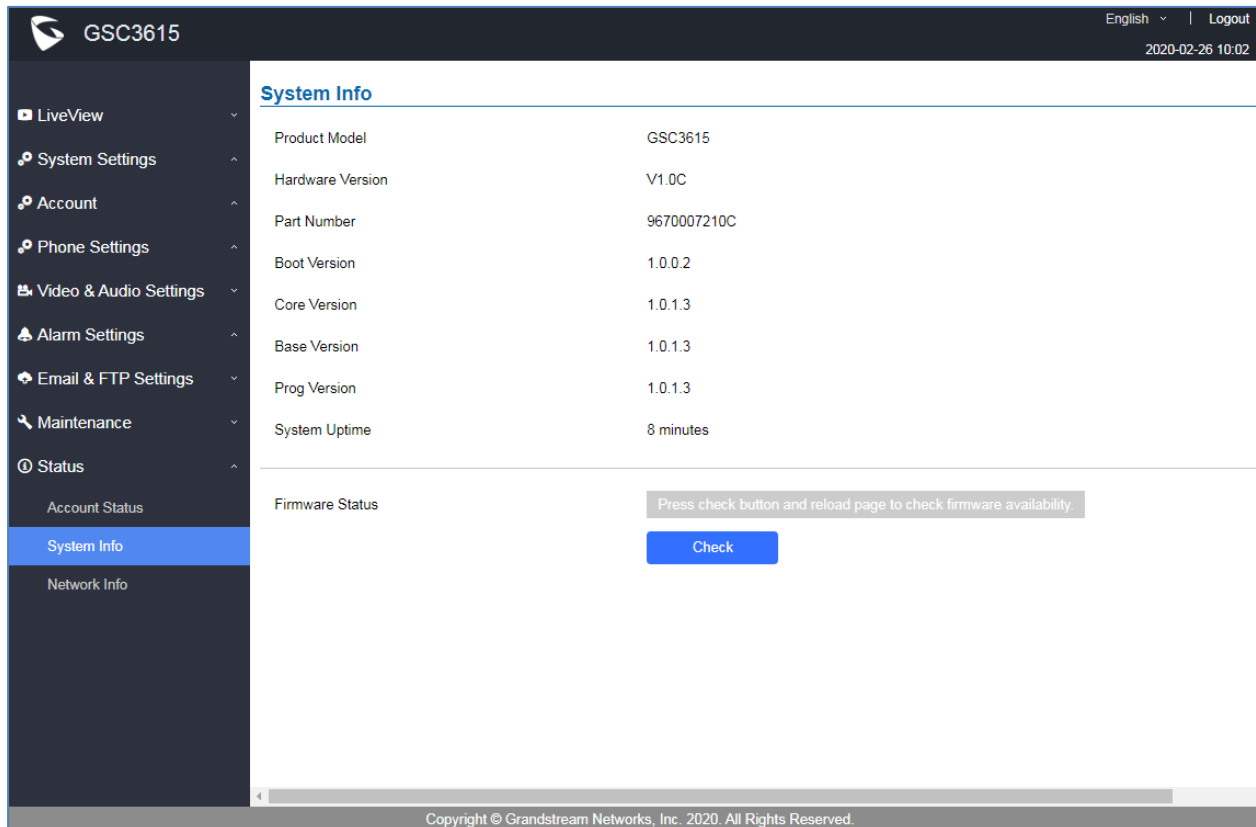











Figure 10: GSC3610/GSC3615 Web GUI

Table 4: GSC3610/GSC3615 WEB GUI Sections

Fields	Description
<b>LiveView</b>	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”
<b>System Settings</b>	Access to “System Settings” page.
<b>Account</b>	Access to “Account” configuration page.
<b>Phone Settings</b>	Access to “Phone Settings” configuration page.
<b>Video &amp; Audio Settings</b>	Access to “Video & Audio settings” page.
<b>Alarm Settings</b>	Access to “Alarm settings” page.
<b>Email &amp; FTP Settings</b>	Access to “Email & FTP Settings” page.
<b>Maintenance</b>	Access to “Maintenance” page.
<b>Status</b>	Click to enter “Status” page.
<b>Display Performance</b>	Brightness Contrast Saturation Sharp
<b>Date &amp; Time</b>	Displays the current Date & Time
<b>Logout</b>	Logout from the web page.
<b>English</b> ▾	Select the webpage language.



## GSC361X SETTINGS

### Live View Page

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

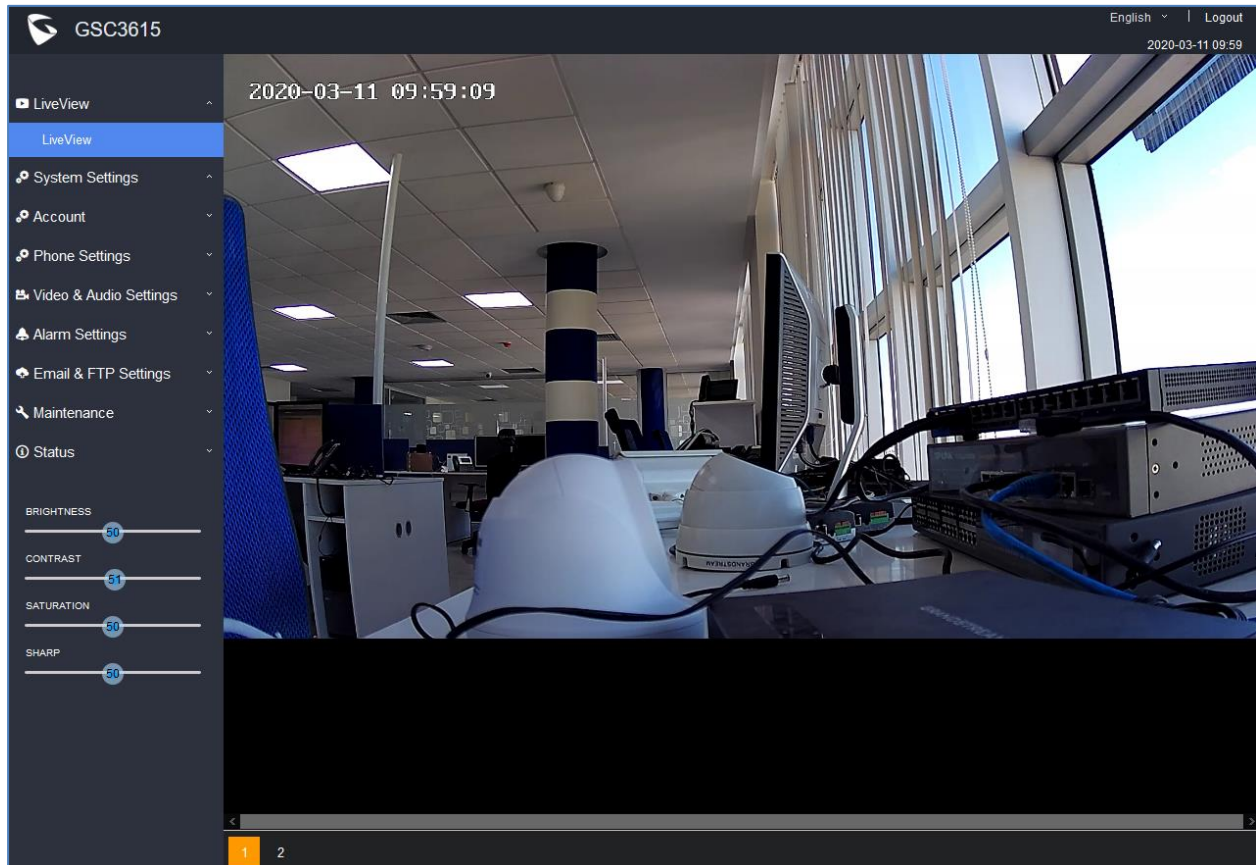


Figure 11: Live View

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.



Figure 12: Date & Time Page

Table 5: Date & Time

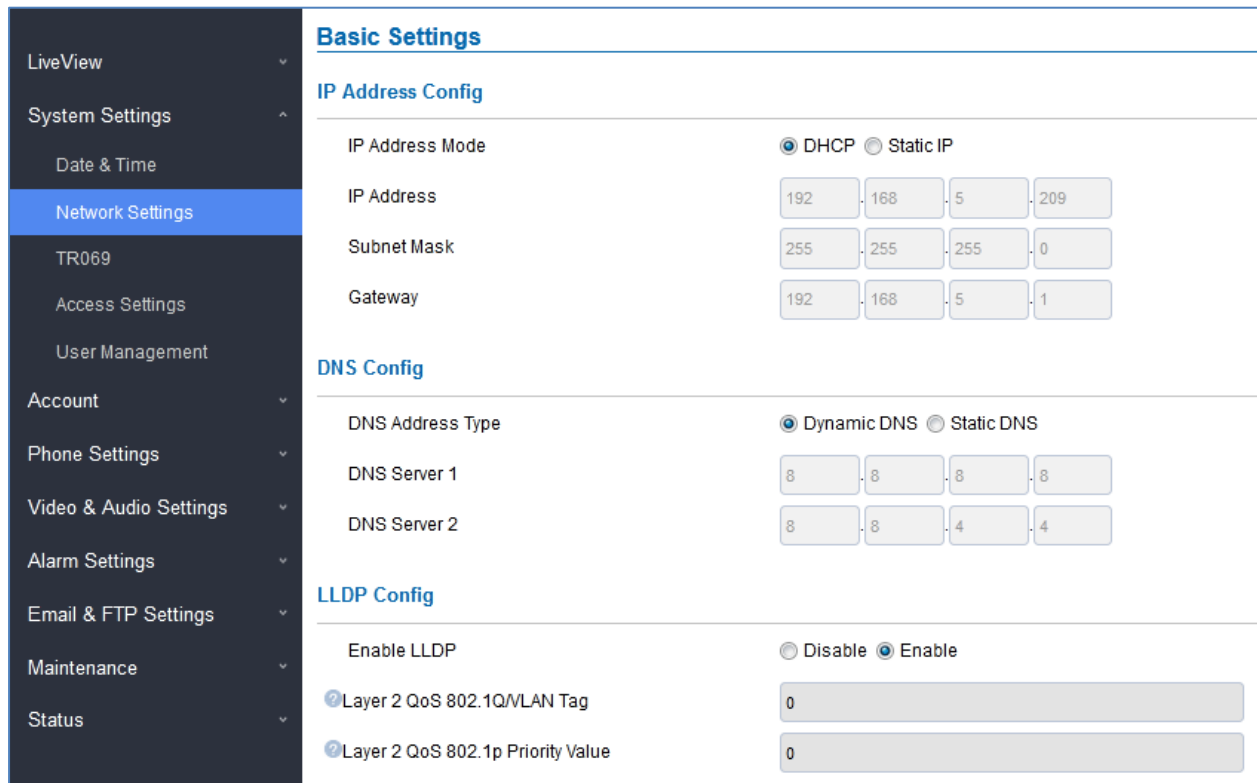
<b>System Time</b>	Displays the current system time.
<b>Allow DHCP Option 42 to override NTP server</b>	Defines whether DHCP Option 42 should override NTP server or not. When enabled, DHCP Option 42 will override the NTP server if it is set up on the LAN. The default setting is “Yes”.
<b>Time Zone</b>	Configures the date/time used on the phone according to the specified time zone. Default is Auto.
<b>Self-Defined Time Zone</b>	<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: <b>std offset dst [offset], start [/time], end [/time]</b>            Default is set to: <b>MTZ+6MDT+5,M4.1.0,M11.1.0</b></p> <p><b>MTZ+6MDT+5</b>            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><b>M4.1.0,M11.1.0</b>            The 1<sup>st</sup> number indicates Month: 1,2,3..., 12 (for Jan, Feb, ..., Dec)            The 2<sup>nd</sup> number indicates the nth iteration of the weekday: (1<sup>st</sup> Sunday, 3<sup>rd</sup> Tuesday...)            The 3<sup>rd</sup> number indicates weekday: 0,1,2,...,6( for Sun, Mon, Tues, ... ,Sat)            Therefore, this example is the DST which starts from the First Sunday of April to the 1<sup>st</sup> Sunday of November.</p>



<b>Enable NTP</b>	Enables NTP to synchronize device time.
<b>NTP Server</b>	Configures the domain name of NTP server. Default is "pool.ntp.org"
<b>Update Interval</b>	Configures the Interval (in minutes) to retrieve updates from the NTP server.

## Network Settings

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



**Figure 13: Basic Settings Page**

**Table 6: Basic Settings**

<b>IP Address Mode</b>	Selects DHCP or Static IP. Default DHCP. (Static recommended)
<b>IP Address</b>	Configures the Static IP of the GSC361X.
<b>Subnet Mask</b>	Configures the Associated Subnet Mask.
<b>Gateway</b>	Configures the Gateway IP address.
<b>DNS Address Type</b>	Specifies the DNS type used: Dynamic DNS or Static DNS.
<b>DNS Server 1</b>	Configures DNS Server 1 IP address.
<b>DNS Server 2</b>	Configures DNS Server 2 IP address.
<b>Enable LLDP</b>	Controls the LLDP (Link Layer Discovery Protocol) service. The default setting is "Enabled".



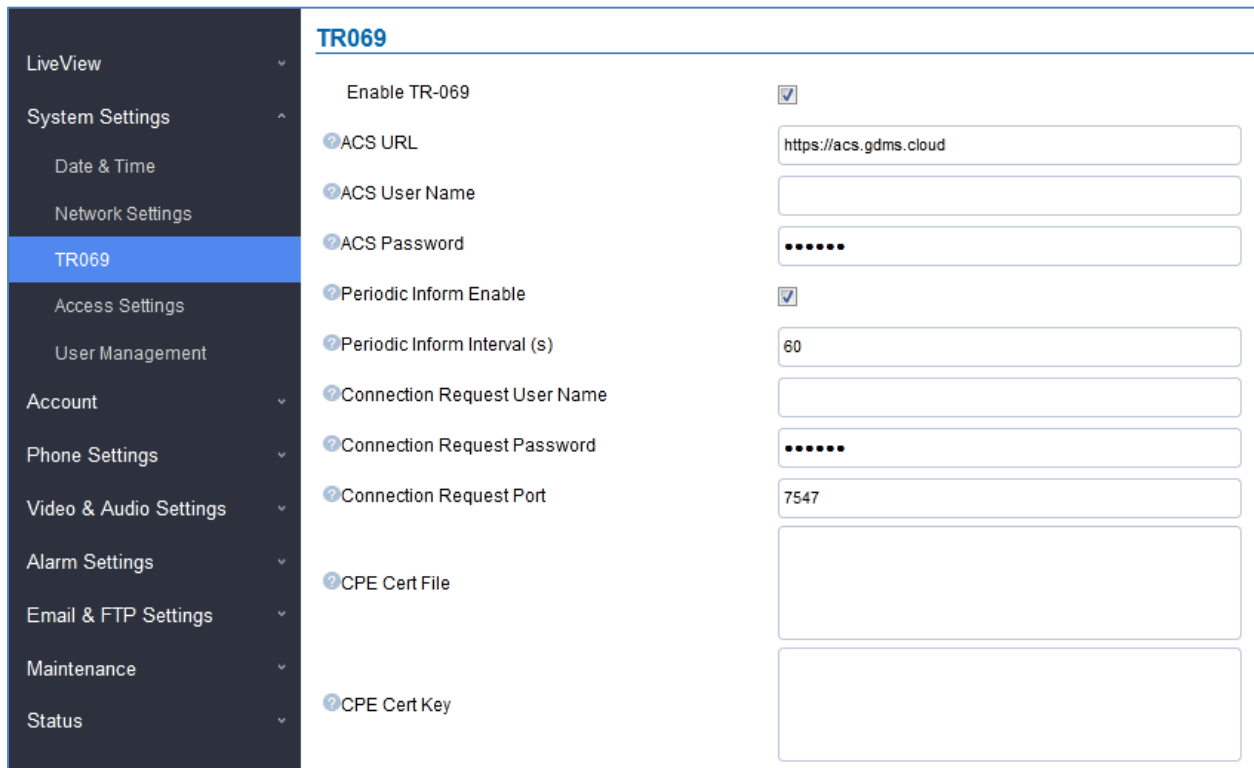
<b>Layer 2 QoS 802.1Q/VLAN Tag</b>	Assigns the VLAN Tag of the Layer 2 QoS packets. Default value is 0.
<b>Layer 2 QoS 802.1p Priority Value</b>	Assigns the priority value of the Layer2 QoS packets. Default value is 0.

**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>

**Table 6: TR069 Settings**

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

## Access Settings

This page configures the GSC361X access control parameters.



Access Settings	
Web Access Mode	HTTPS
Web Access Port	443
MJPEG Authentication Mode	Challenge+Response
RTSP Port	554
☑ User Login Timeout(min)	5
☑ Maximum Number of Login Attempts	5
Locking Time of Login Error (m)	5
☑ Disable Web Access	<input type="checkbox"/>
Enable UPnP Discovery	<input checked="" type="checkbox"/>
Enable Anonymous LiveView	<input type="checkbox"/>
Enable SSH	<input checked="" type="checkbox"/>
SSH Port	22
RTSP Password	••••••

**Figure 15: Access Settings Page**

**Table 7: Access Settings**

<b>Web Access Mode</b>	Selects the access mode to the Web GUI either HTTP or HTTPS.
<b>Web Access Port</b>	Specifies the TCP port for Web Access, default 443.
<b>MJPEG Authentication Mode</b>	<p>Allows 3<sup>rd</sup> 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> <p>1- The MJPEG stream can be retrieved via the following URL HTML based → <b>http(s)://admin:password@IP_GSC3610:Port/jpeg/mjpeg.html</b> Stream → <b>http(s)://admin:password@ip:port/jpeg/stream</b></p> <p>2- 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 <b>[Retrieving Video Streams]</b></p>



<b>RTSP Port</b>	Specifies RTSP port for media stream, default TCP port 554.
<b>User Login Timeout(min)</b>	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.
<b>Maximum Number of Login Attempts</b>	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.
<b>Locking Time of Login Error (m)</b>	Specifies how long the GSC361X is locked before a new login attempt is allowed. Default is 5.
<b>Disable Web Access</b>	<p>Allow or deny the web access to the GSC361X. (HTTP API do not take effect when this option is enabled).</p> <p><b>Note:</b> 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"> <li>1. Re-provisioned by ITSP or Service Provider (by adjusting the related parameters)</li> <li>2. Hard Reset (GSC361X has to be offline and uninstalled to perform this hard reset).</li> </ol>
<b>Enable UPnP Discovery</b>	UPnP (or mDNS) function for local discovery. Default setting is enabled.
<b>Enable Anonymous LiveView</b>	<ol style="list-style-type: none"> <li>1. When enabled, user can display the camera stream from without admin credentials using the following URL scheme:  <a href="http(s)://GSC3610_IP:port/vidoeview.html">http(s)://GSC3610_IP:port/vidoeview.html</a> </li> <li>1. User can also retrieve a real-time snapshot without admin credentials using the following URL:  <a href="http(s)://IP:port/anonymous/snapshot/view.html">http(s)://IP:port/anonymous/snapshot/view.html</a> </li> </ol> <p>Or with:  <a href="https://IP_GSC3610:Port/anonymous/snapshot/view.jpg">https://IP_GSC3610:Port/anonymous/snapshot/view.jpg</a> </p> <ol style="list-style-type: none"> <li>2. To retrieve video stream via RTSP, users can use the following format: <code>rtp://IP_GSC3610:Port/X</code> where X=0,4 for 1<sup>st</sup>, 2<sup>nd</sup> streams, respectively.</li> </ol>
<b>Enable SSH</b>	Allows SSH access for remote secured configuration purposes (restart, upgrade, provision...)
<b>SSH Port</b>	Specifies the SSH port. Default setting is 22.

## Retrieving Video Streams

### RTSP Stream

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

[rtp://admin:password@IP\\_GSC361X:Port/X](rtp://admin:password@IP_GSC361X:Port/X) where X=0,4 for 1<sup>st</sup>, 2<sup>nd</sup> streams respectively

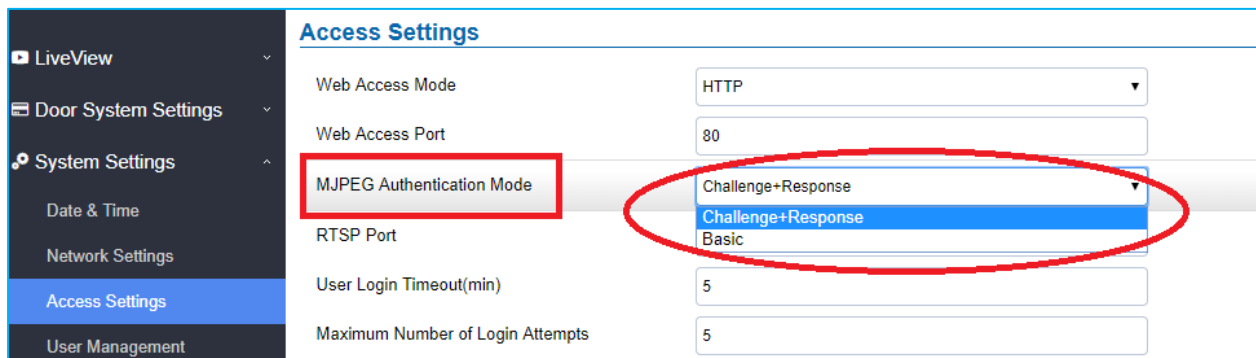




## MJPEG Stream

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 **1<sup>st</sup>, 2<sup>nd</sup>** video stream



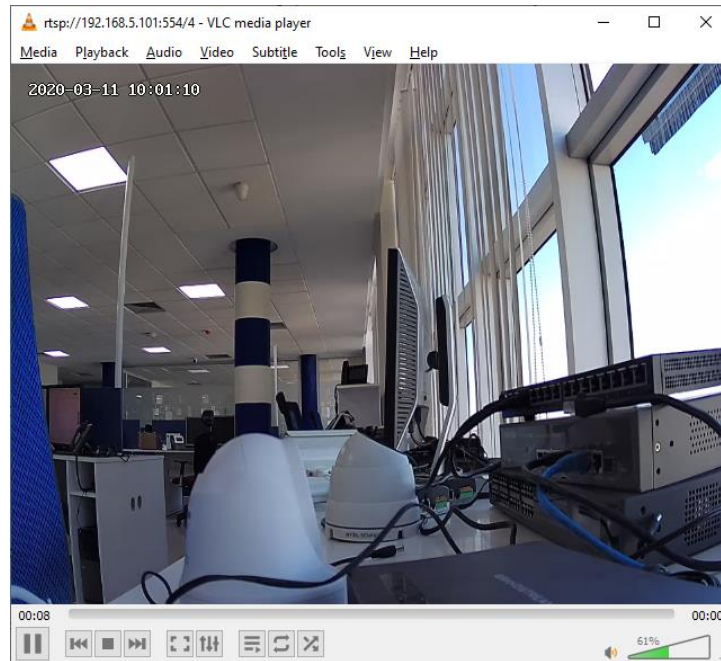


Figure 17: RTSP steam display using VLC

## 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.

Figure 18: User Management Page

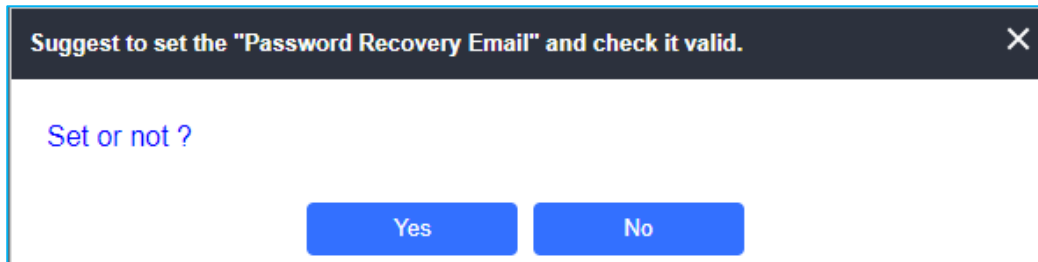
Table 8: User Management

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



**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.



**Figure 19: Password Recovery Email**

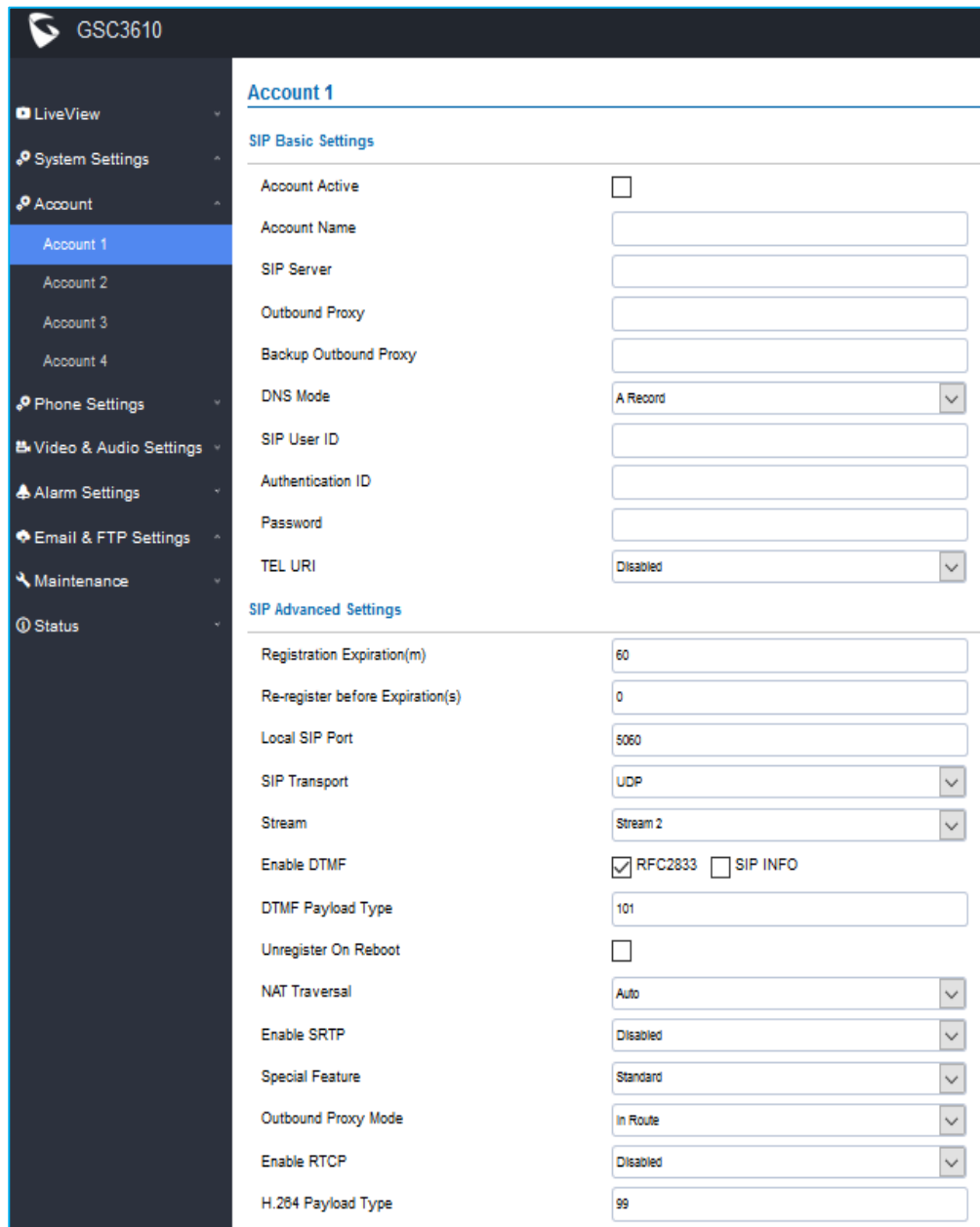


## Account

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:



SIP Basic Settings	
Account Active	<input type="checkbox"/>
Account Name	<input type="text"/>
SIP Server	<input type="text"/>
Outbound Proxy	<input type="text"/>
Backup Outbound Proxy	<input type="text"/>
DNS Mode	A Record
SIP User ID	<input type="text"/>
Authentication ID	<input type="text"/>
Password	<input type="text"/>
TEL URI	Disabled
SIP Advanced Settings	
Registration Expiration(m)	60
Re-register before Expiration(s)	0
Local SIP Port	5060
SIP Transport	UDP
Stream	Stream 2
Enable DTMF	<input checked="" type="checkbox"/> RFC2833 <input type="checkbox"/> SIP INFO
DTMF Payload Type	101
Unregister On Reboot	<input type="checkbox"/>
NAT Traversal	Auto
Enable SRTP	Disabled
Special Feature	Standard
Outbound Proxy Mode	In Route
Enable RTCP	Disabled
H.264 Payload Type	99

Figure 20: SIP Account Settings Page

**Table 9: SIP Account Basic & Advanced Settings**

SIP Basic Settings	
<b>Account Active</b>	This field indicates whether the account is active. Default setting is "Yes".
<b>Account Name</b>	Configures the SIP account name used for identification.
<b>SIP Server</b>	Configures the FQDN or IP of the SIP server from VoIP service provider or local IPPBX.
<b>Outbound Proxy</b>	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.
<b>Backup Outbound Proxy</b>	Configures the backup outbound proxy to be used when the "Outbound Proxy" registration fails. By default, this field is left empty.
<b>DNS Mode</b>	Configure which DNS mode will be used to translate the SIP Server FQDN (Default value is <b>A Record</b> ): <ul style="list-style-type: none"> <li>• <b>A Record.</b></li> <li>• <b>SRV.</b></li> <li>• <b>NAPTR/SRV.</b></li> </ul>
<b>SIP User ID</b>	Configures the SIP username or telephone number from ITSP. <b>Note:</b> Letters, digits and special characters including @ are supported.
<b>Authenticate ID</b>	Configures the Authenticate ID used by SIP proxy.
<b>Password</b>	Sets the Authenticate password used by SIP proxy. <b>Note:</b> For security reasons, the SIP password is invisible on the web UI.
<b>TEL URI</b>	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	
<b>Registration Expiration (m)</b>	Sets the registration expiration time. Default setting is 60 minutes. Valid range is from 1 to 64800 minutes.
<b>Re-register before Expiration (s)</b>	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.



<b>Local SIP Port</b>	Sets the local SIP port. Default setting is 5060 for Account 1, 5062 for Account 2, 5064 for Account 3, 5066 for Account 4.
<b>SIP Transport</b>	Chooses the SIP transport protocol. UDP, TCP or TCP/TLS. Default setting is UDP.
<b>Stream</b>	Select the Video stream to be used by the GSC361X when call is made from this SIP Account. Default is Stream 2.
<b>Enable DTMF</b>	Specifies the mechanism to transmit DTMF digits. There are 2 supported modes: <ul style="list-style-type: none"> <li>• <b>RFC2833</b> sends DTMF with RTP packet. Users can check the RTP packet to see the DTMFs sent as well as the number pressed.</li> <li>• <b>SIP INFO</b> uses SIP INFO to carry DTMF. Default setting is "RFC2833"</li> </ul>
<b>DTMF Payload Type</b>	Configures the payload type for DTMF using RFC2833. Default value is 101. Range: 96~127.
<b>Unregister on Reboot</b>	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.
<b>NAT Traversal</b>	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". 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. 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.
<b>uPnP NAT Traversal</b>	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.
<b>Enable SRTP</b>	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".

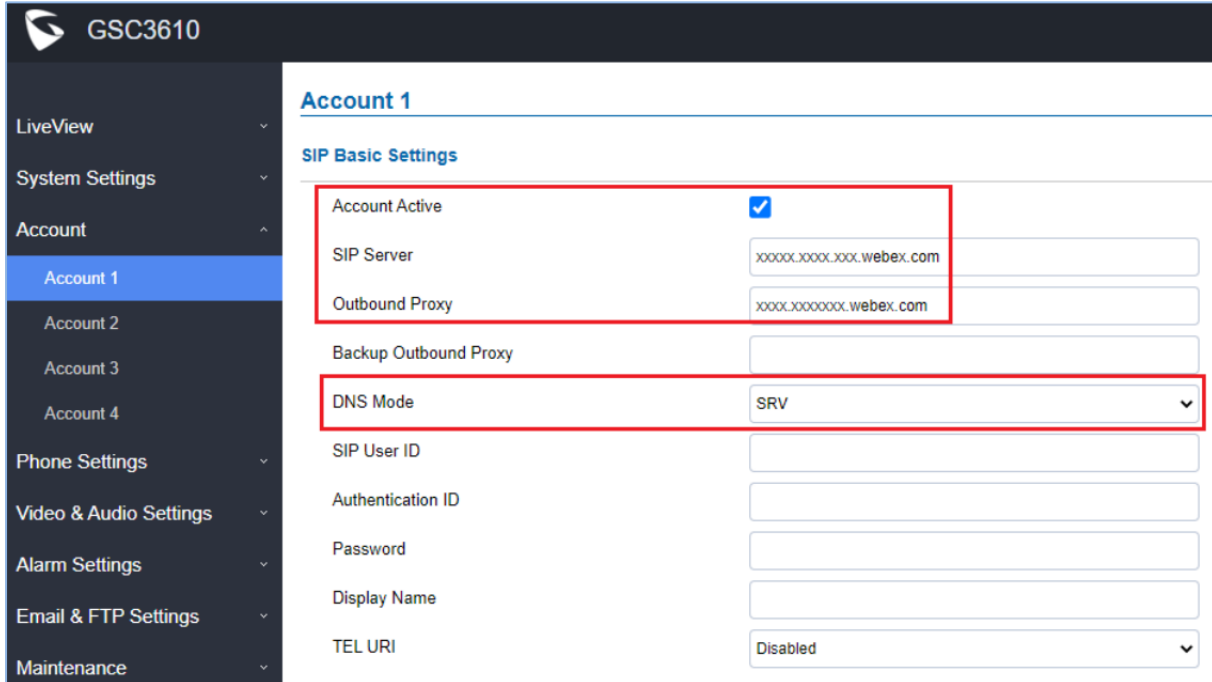


<b>Special Feature</b>	<p>Configures GSC settings to meet different vendors' server requirements. Users can choose from Standard, BroadSoft or Telefonica Spain.</p> <p>This "Special Feature" will allow GSC36xx to operate like other Grandstream SIP end points in some ITSP's network, like for example Telefonica, or Broadsoft platform.</p> <p>The default setting is "Standard".</p>
<b>Outbound Proxy Mode</b>	<p><b>In route:</b> 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.</p> <p><b>Always sent to:</b> SIP messages will always be sent to Outbound proxy.</p> <p><b>Not in route:</b> remove the Route header from SIP requests.</p>
<b>Enable RTCP</b>	<p>This option allows 3rd party Service Provider or Cloud Solution to monitor the operation status of the GSC361X by using related SIP Calls.</p> <p>By default, it is disabled. Users can choose either RTCP or RTCP-XR.</p>
<b>H.264 Payload Type</b>	<p>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.</p>
<b>Accept Incoming SIP from Proxy Only</b>	<p>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.</p>
<b>SIP URI Scheme When Using TLS</b>	<p>This option allows the unit to work with Cisco WebEX server as SIP client. The two modes are SIP and SIPS.</p>
<b>Support SIP Instance ID</b>	<p>When enabled, the unit will work with Cisco WebEX server as SIP client.</p>
<b>Vocoder Settings</b>	
<b>Preferred Vocoder 1</b>	<p>Select audio codec to prioritize. Supported codecs are: PCMU and PCMA.</p>
<b>Preferred Vocoder 2</b>	<p>Select the second audio codec PCMU or PCMA.</p>
<b>Voice Frame Per TX</b>	<p>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.</p>



## Cisco WebEx Compatibility

Compatibility with Cisco WebEx service allows the device to register and work in Cisco WebEx network. The device can be configured as follows to connect to Cisco WebEx:



Account 1	
<b>SIP Basic Settings</b>	
Account Active	<input checked="" type="checkbox"/>
SIP Server	xxxxx.xxxx.xxx.webex.com
Outbound Proxy	xxxx.xxxxxx.webex.com
Backup Outbound Proxy	
DNS Mode	SRV
SIP User ID	
Authentication ID	
Password	
Display Name	
TEL URI	Disabled

**Figure 21: Cisco WebEx Basic Configuration**





SIP Advanced Settings	
Registration Expiration(m)	60
Re-register before Expiration(s)	0
Local SIP Port	5060
SIP Transport	TLS/TCP
Stream	Stream 2
Unregister On Reboot	<input checked="" type="checkbox"/>
NAT Traversal	No
UPnP NAT Traversal	<input type="checkbox"/>
Enable SRTP	Enable but Not Forced
Special Feature	Standard
Outbound Proxy Mode	In Route
Enable RTCP	Disabled
H.264 Payload Type	99
Accept Incoming SIP from Proxy Only	<input type="checkbox"/>
Enable RFC6184	<input checked="" type="checkbox"/>
SIP URI Scheme When Using TLS	sip
Support SIP Instance ID	<input checked="" type="checkbox"/>

[Save](#)

**Figure 22: Cisco WebEx Advanced Configuration**

## 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	<input type="text"/>
Local RTP Port	<input type="text" value="5004"/>
Use Random Port	<input checked="" type="checkbox"/>
Auto On-Hook Timer(s)	<input type="text" value="300"/>
Ringing Timeout(s)	<input type="text" value="30"/>
SIP TLS Certificate	<div style="border: 1px solid #ccc; height: 40px;"></div>
SIP TLS Private Key	<div style="border: 1px solid #ccc; height: 40px;"></div>
SIP TLS Private Key Password	<input type="password" value="....."/>
Enable Direct IP Call	<input checked="" type="checkbox"/>
Enable two-way SIP Calling	<input type="checkbox"/>
SIP Proxy Compatibility Mode	<input checked="" type="checkbox"/>
SIP Packetization Compatibility Mode	<input checked="" type="checkbox"/>
Enable Multi-channel Call Mode	<input type="checkbox"/>
Allow Reset Via SIP NOTIFY	<input type="checkbox"/>

**Figure 23: Phone Settings Page**

**Table 10: Phone Settings**

<b>STUN Server</b>	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.
<b>Local RTP Port</b>	Sets the local RTP port for media. Default setting is 5004. Range between 1024~65400.
<b>Use Random Port</b>	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” <b>Note:</b> This parameter must be set to “Disabled” for Direct IP Calling to work.
<b>Auto On-Hook Timer</b>	Configures the auto on-hook timer (in seconds) for automatic disconnecting the SIP call. Default setting is 300. Range between 0~65535.

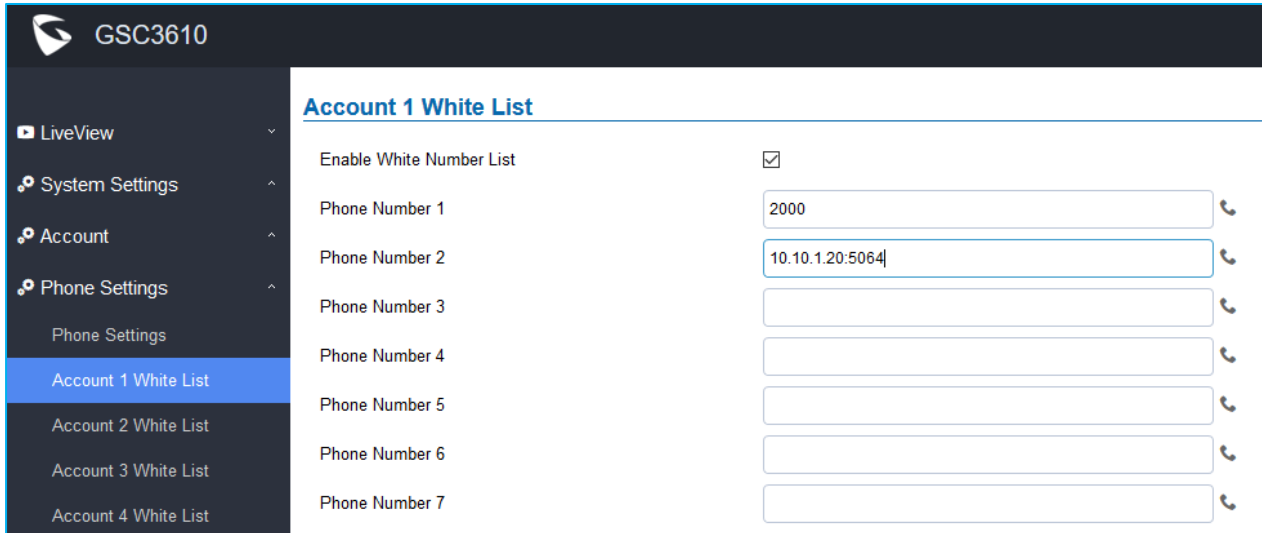


<b>Ring Timeout(s)</b>	Specifies the Ring timeout, when no reply is returned from the called party after exceeding this field, the GSC361X will hang up the call. The value is in the range of 0s – 90s. By default, it is “30” seconds.
<b>SIP TLS Certificate</b>	Input the TLS certificate here for encryption.
<b>SIP TLS Private Key</b>	Input private key here for TLS security protection.
<b>SIP TLS Private Key Password</b>	Specifies the password for SIP TLS private Key.
<b>Enable Direct IP Call</b>	Accepts peer-to-peer IP call (over UDP only) without SIP server. Default is “Enabled”.
<b>Enable two-way SIP Calling</b>	Allows the user to enable/disable the alarm sound during a SIP call triggered by doorbell pressing.
<b>SIP Proxy Compatibility Mode</b>	Enables more proxy compatibility with cost of bandwidth, the SIP call will send audio no matter what.
<b>SIP Packetization Compatibility Mode</b>	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.
<b>Enable Multi-channel Call Mode</b>	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).
<b>Allow Reset Via SIP NOTIFY</b>	<p>Allows to factory reset the devices directly through SIP Notify.</p> <p>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.</p> <p>This authentication can be either with:</p> <ul style="list-style-type: none"> <li>• The admin password if no SIP account is configured on the unit.</li> <li>• The SIP User ID and Password credentials of the SIP account if configured on the unit.</li> </ul> <p>Default is unchecked (disabled).</p>

## 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 24: White List Page**

The table below gives a brief overview of the options:

**Table 11: White List**

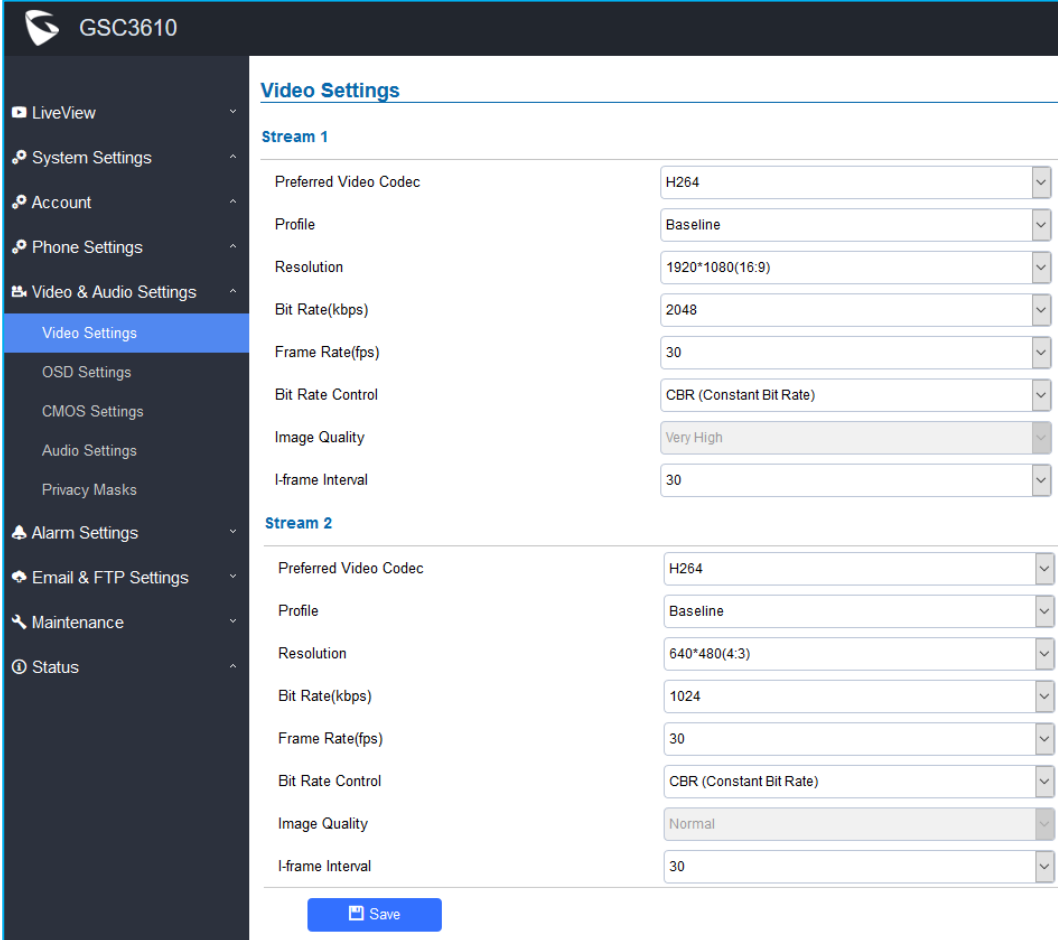
<b>Enable White Number List</b>	Enables the White List feature.
<b>Phone Number 1 -30</b>	<p>Adds a new phone number (or IP address) to the white list.</p> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>When using IP addresses, the port number should be appended (default 5060).</li> <li>Only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

## 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



**GSC3610**

**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 25: Video Settings Page

Table 12: Video Settings

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



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

**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.

**OSD Settings**

Display Time	<input checked="" type="checkbox"/>
Display Text	<input type="checkbox"/>
OSD Text	<input type="text"/>
OSD Date/Time Position	Top Left <span style="float: right;">▼</span>
OSD Text Position	Top Left <span style="float: right;">▼</span>

**Figure 26: OSD Settings Page**

**Table 13: OSD Settings**

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

## CMOS Settings

This page configures the CMOS parameters for different scenarios.

**CMOS Settings**

WDR (Wide Dynamic Range)	Enable <span style="float: right;">▼</span>
Power Frequency	Indoor (60Hz Power Frequency) <span style="float: right;">▼</span>
Flip	NONE <span style="float: right;">▼</span>
IR CUT Setting	Automatic <span style="float: right;">▼</span>

**Figure 27: CMOS Settings Page**

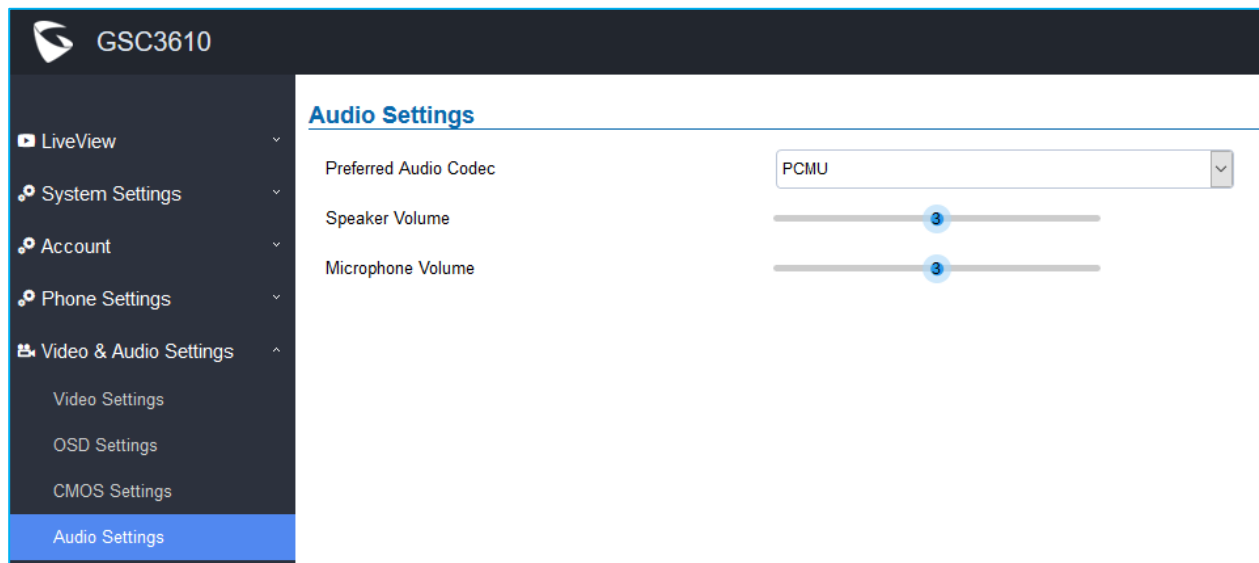


**Table 14: CMOS Settings**

<b>WDR (Wide Dynamic Range)</b>	<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. 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><b>Note:</b> This WDR may help some light condition environment, but will not be effective at all light conditions or application scenes.</p>
<b>Power Frequency</b>	Select correct light condition for the scene monitored: Outdoor, Indoor 50Hz power frequency (Europe, China, etc.) or 60Hz power frequency (US, Japan, etc.).
<b>Flip</b>	Pull down to choose to flip video either vertically, horizontal or both
<b>IR CUT Setting</b>	Set Manual or Automatic (IR Sensor control) to switch the mechanical IR_CUT.

## Audio Settings

This page allows users to configure the audio settings.


**Figure 28: Audio Settings Page**
**Table 15: Audio Settings**

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





## 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.

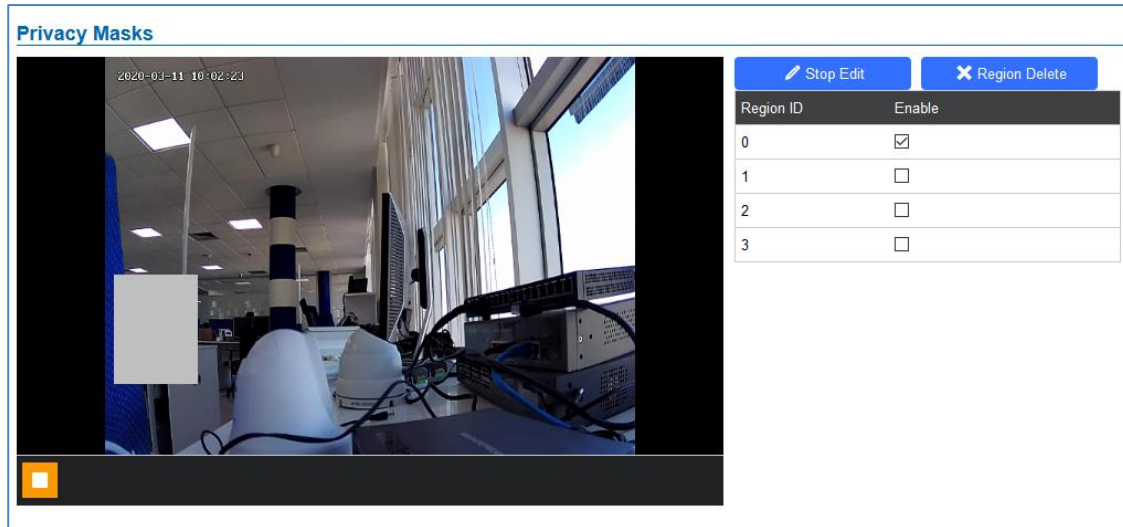


Figure 29: Privacy Masks Configuration Page

- 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.

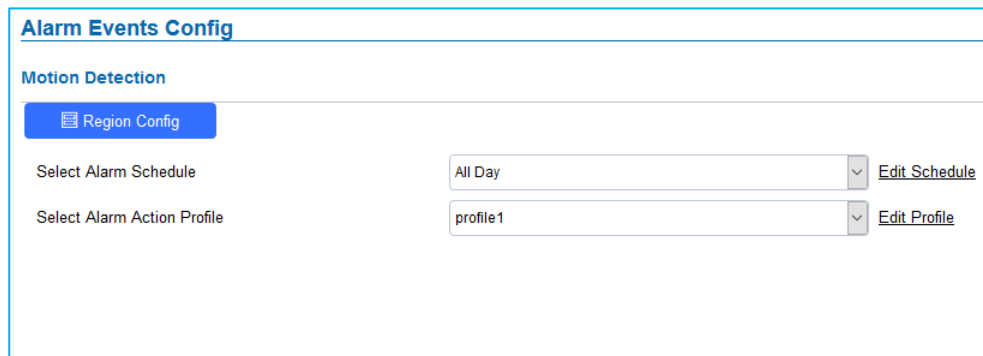
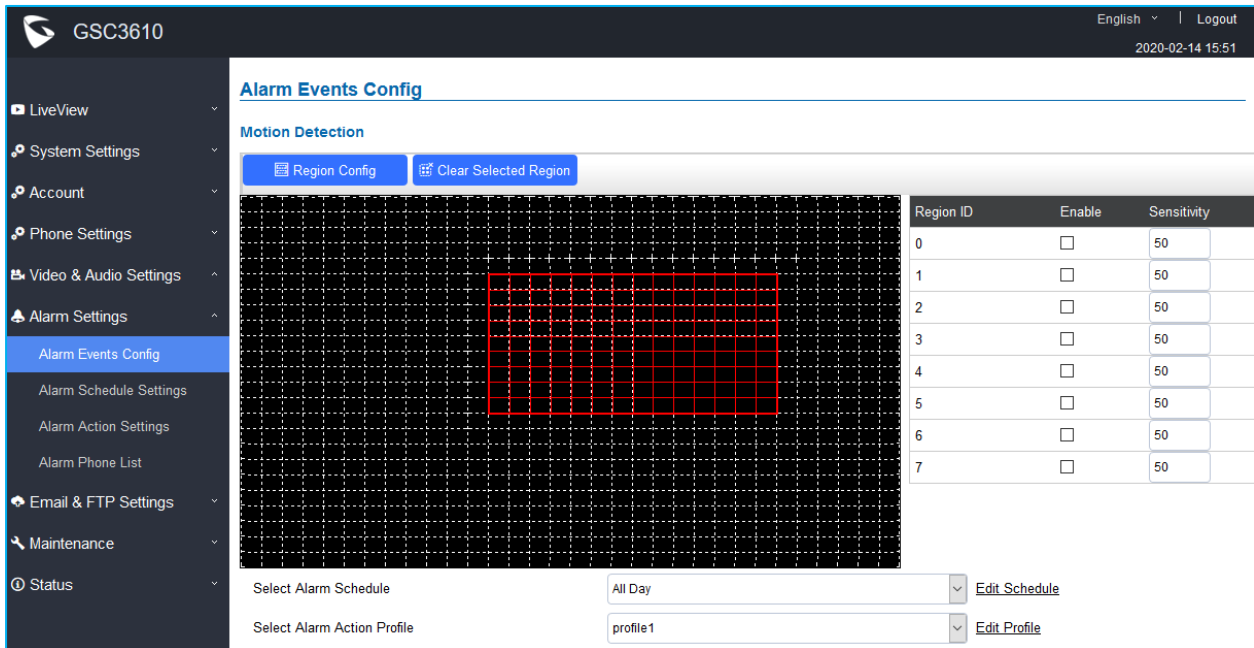


Figure 30: Events Page



## Motion Detection

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



The screenshot shows the 'Alarm Events Config' page for a GSC3610 device. The 'Motion Detection' section is active, displaying a 'Region Config' button and a 'Clear Selected Region' button. A grid of small squares represents the detection area, with a red rectangle highlighting a selected region. Below the grid, there are dropdown menus for 'Select Alarm Schedule' (set to 'All Day') and 'Select Alarm Action Profile' (set to 'profile1').

Region ID	Enable	Sensitivity
0	<input type="checkbox"/>	50
1	<input type="checkbox"/>	50
2	<input type="checkbox"/>	50
3	<input type="checkbox"/>	50
4	<input type="checkbox"/>	50
5	<input type="checkbox"/>	50
6	<input type="checkbox"/>	50
7	<input type="checkbox"/>	50

Figure 31: Region Config

Table 16: Motion Detection

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



## 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.

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**Figure 32: 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.

Modify Schedule
✕

Schedule Name

Sun	Period1	<input type="text" value="00"/>	:	<input type="text" value="00"/>	-	<input type="text" value="23"/>	:	<input type="text" value="59"/>
Mon	Period2	<input type="text" value="00"/>	:	<input type="text" value="00"/>	-	<input type="text" value="00"/>	:	<input type="text" value="00"/>
Tue	Period3	<input type="text" value="00"/>	:	<input type="text" value="00"/>	-	<input type="text" value="00"/>	:	<input type="text" value="00"/>
Wed	Period4	<input type="text" value="00"/>	:	<input type="text" value="00"/>	-	<input type="text" value="00"/>	:	<input type="text" value="00"/>
Thu	Period5	<input type="text" value="00"/>	:	<input type="text" value="00"/>	-	<input type="text" value="00"/>	:	<input type="text" value="00"/>
Fri	Period6	<input type="text" value="00"/>	:	<input type="text" value="00"/>	-	<input type="text" value="00"/>	:	<input type="text" value="00"/>
Sat	Period7	<input type="text" value="00"/>	:	<input type="text" value="00"/>	-	<input type="text" value="00"/>	:	<input type="text" value="00"/>
	Period8	<input type="text" value="00"/>	:	<input type="text" value="00"/>	-	<input type="text" value="00"/>	:	<input type="text" value="00"/>

Copy  Sun  Mon  Tue  Wed  Thu  Fri  Sat  Select All

Save
Cancel

**Figure 33: Edit Schedule**

### Alarm Action Settings

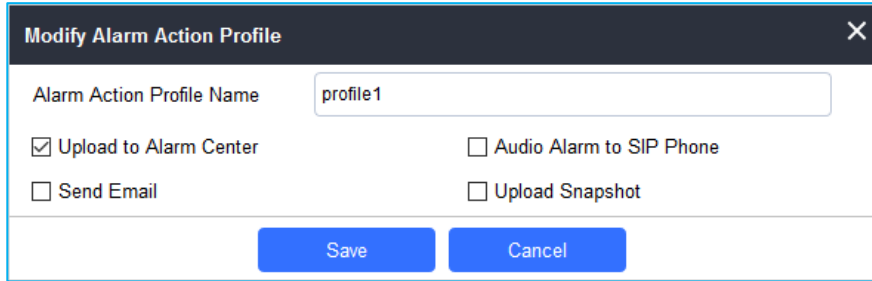
This page specifies the configuration of Profile used by the Alarm Actions. A Profile is required before the Alarm Action can take effect.

No.	Alarm Action Profile Name	Detail	Edit
1	profile1	⌵	✎
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <ul style="list-style-type: none"> <li><span style="color: red;">✕</span> Upload to Alarm Center</li> <li><span style="color: red;">✕</span> Send Email</li> </ul> </div> <div style="width: 45%;"> <ul style="list-style-type: none"> <li><span style="color: red;">✕</span> Audio Alarm to SIP Phone</li> <li><span style="color: red;">✕</span> Upload Snapshot</li> </ul> </div> </div>		
2	profile2	⌵	✎
3	profile3	⌵	✎
4	profile4	⌵	✎
5	profile5	⌵	✎
6	profile6	⌵	✎
7	profile7	⌵	✎
8	profile8	⌵	✎
9	profile9	⌵	✎
10	profile10	⌵	✎

**Figure 34: Alarm Action**

User can edit the alarm action by clicking button, the following window will popup.





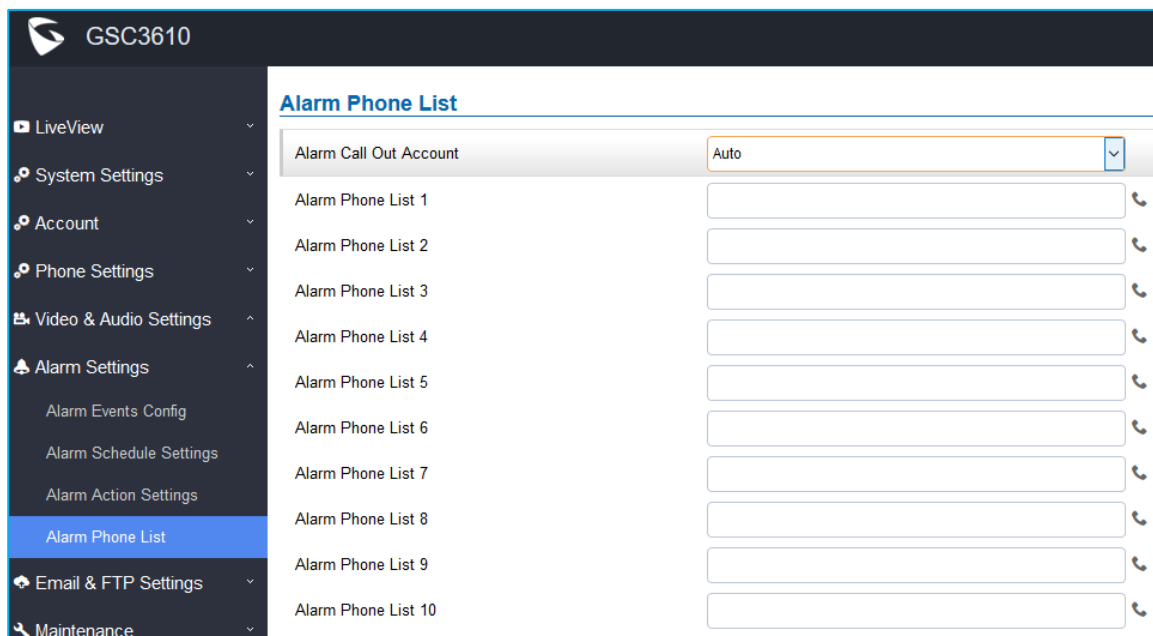
**Figure 35: Edit Alarm Action**

**Table 17: Alarm Actions**

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

## 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.



**Figure 36: Alarm Phone List**



**Table 18: Alarm Phone List**

<b>Alarm Call Out Account</b>	Select the SIP Account to be used by the GSC361X when alarm out is triggered.
<b>Alarm Phone List 1-10</b>	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).

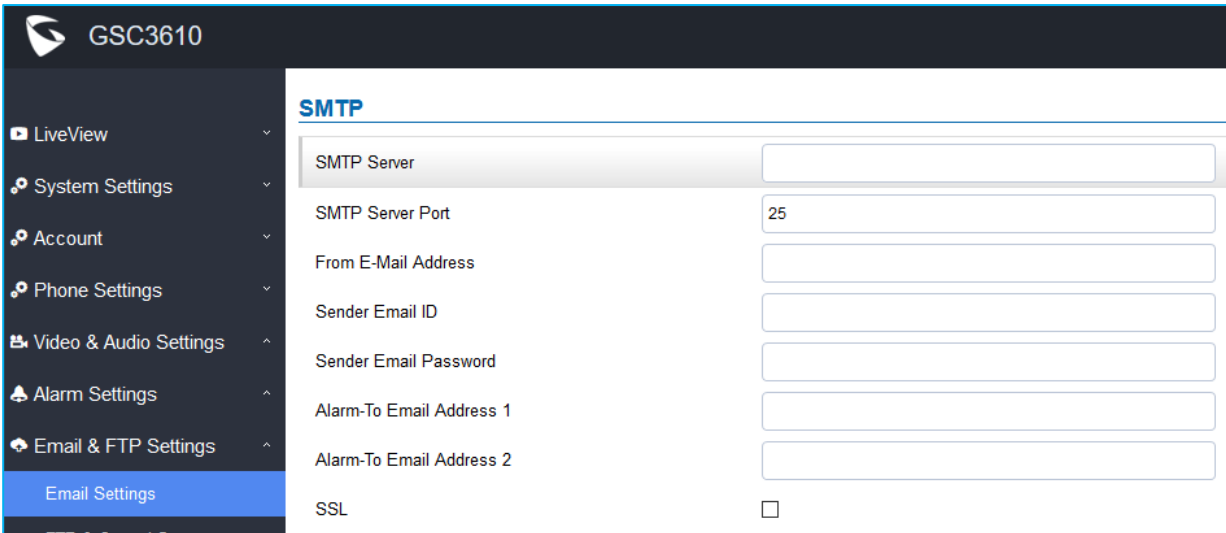
Once the event is triggered the GSC361X will call the first number, once time out is reached and no answer is returned from the first number, the GSC3610 will try the next number on the list and so on. Once the remote phone answers the call, an alarm will be played to notify users that an event is triggered.

## 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.



The screenshot shows the 'SMTP' configuration page in the GSC3610 web interface. The left sidebar contains navigation options: LiveView, System Settings, Account, Phone Settings, Video & Audio Settings, Alarm Settings, and Email & FTP Settings. The 'Email Settings' option is selected. The main content area is titled 'SMTP' and includes the following fields:

- SMTP Server: [Text Input Field]
- SMTP Server Port: [Text Input Field with value 25]
- From E-Mail Address: [Text Input Field]
- Sender Email ID: [Text Input Field]
- Sender Email Password: [Text Input Field]
- Alarm-To Email Address 1: [Text Input Field]
- Alarm-To Email Address 2: [Text Input Field]
- SSL:

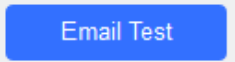
**Figure 37: Email Settings - SMTP Page**
**Table 19: Email Settings - SMTP**

<b>SMTP Server</b>	Configures the SMTP Email Server IP or Domain Name.
<b>SMTP Server Port</b>	Specifies the Port number used by server to send email.
<b>From E-mail address</b>	Specifies email address of alarm email sending from, usually client email ID.
<b>Sender Email ID</b>	Specifies sender's User ID or account ID in the email system used.
<b>Sender Email Password</b>	Specifies sender's password of the email account.

<b>Alarm-To Email Address 1</b>	Specifies the 1 <sup>st</sup> email address to receive the alarm email.
<b>Alarm-To Email Address 2</b>	Specifies the 2 <sup>nd</sup> email address to receive the alarm email.
<b>SSL</b>	Check if the SMTP email server requires SSL.

**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 & Center Storage**

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

**Table 20: Picture Storage Settings**

<b>Storage Server Type</b>	Selects whether to upload pictures to Central Storage or upload them to the FTP server.
<b>FTP Server</b>	Configures the IP address of the FTP server when selected to upload images to.
<b>FTP Server Port</b>	Specifies the FTP address port.
<b>FTP Username</b>	Specifies the FTP server account name.
<b>FTP Password</b>	Specifies the FTP server password.
<b>FTP Path</b>	Specifies the storage path.
<b>FTP Test</b>	Click to test the connection with FTP server.



### Snapshot Storage Settings

Storage Server Type	<input type="text" value="FTP"/>
FTP Server	<input type="text"/>
FTP Server Port	<input type="text" value="21"/>
FTP User Name	<input type="text"/>
FTP Password	<input type="text"/>
FTP Path	<input type="text" value="/"/>

Figure 38: Picture Storage Settings

**Notes:**

- 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.**
- Central Storage will store screenshots locally.



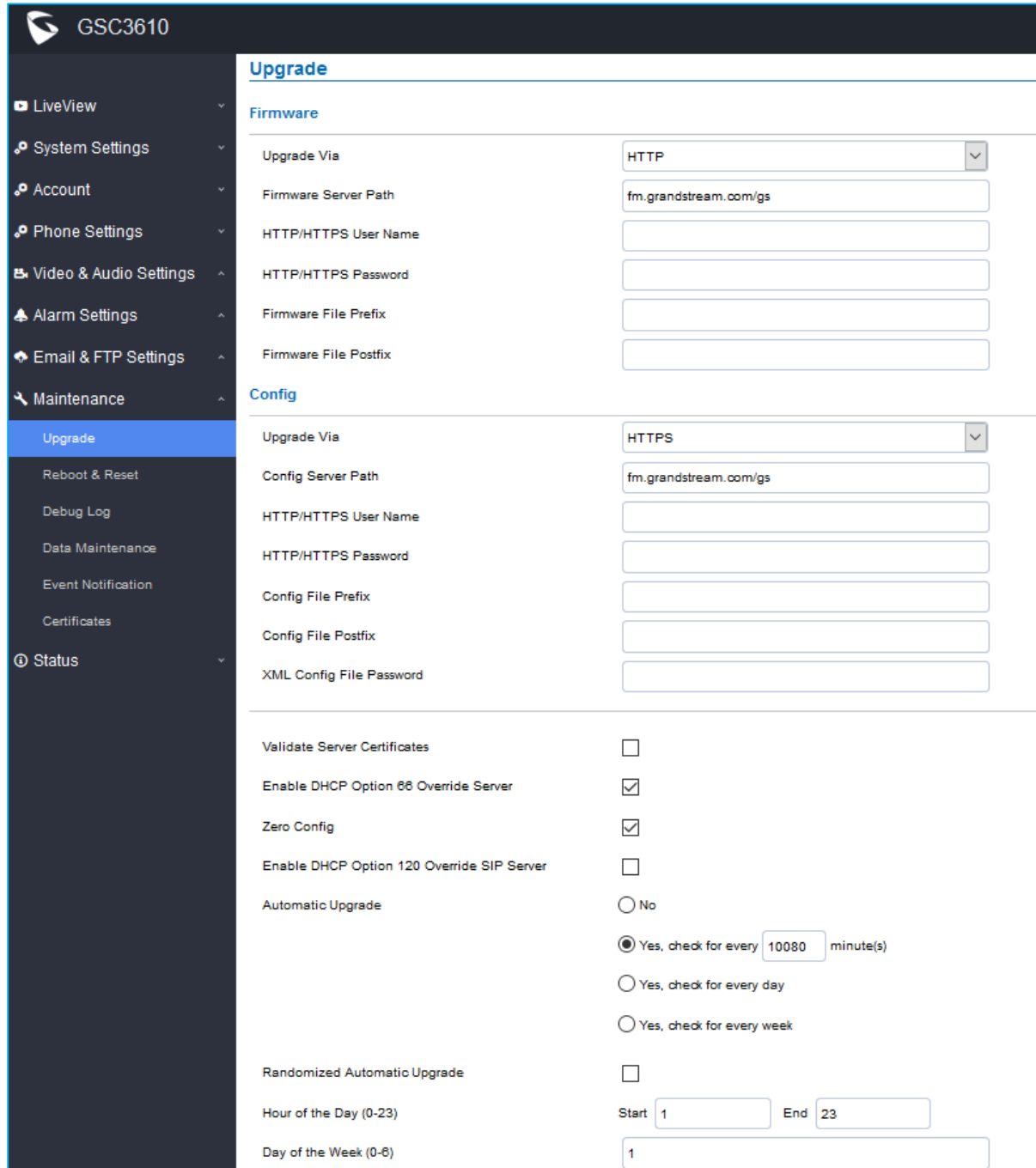


## Maintenance Settings

This page shows the GSC361X Maintenance parameters.

### Upgrade

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



**GSC3610**

**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

Figure 39: Upgrade Page



**Table 21: Upgrade**

Firmware	
<b>Upgrade Via</b>	Selects the upgrade method (TFTP, HTTP, or HTTPS).
<b>Firmware Server Path</b>	Configures the IP address or the FQDN of the upgrade server.
<b>HTTP/HTTPS Username</b>	The username for the HTTP/HTTPS server.
<b>HTTP/HTTPS Password</b>	The password for the HTTP/HTTPS server.
<b>Firmware File Prefix</b>	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.
<b>Firmware File Postfix</b>	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	
<b>Upgrade via</b>	Selects the upgrade method (TFTP, HTTP, and HTTPS).
<b>Config Server Path</b>	Configures the IP address or the FQDN of the configuration server.
<b>HTTP/HTTPS Username</b>	The username for the HTTP/HTTPS server.
<b>HTTP/HTTPS Password</b>	The password for the HTTP/HTTPS server.
<b>Config File Prefix</b>	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.
<b>Config File Postfix</b>	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.
<b>XML Config File Password</b>	Specifies the password for the configuration file.
<b>Validate Server Certificate</b>	Enable this option in order to validate certificate with trusted ones during TLS connection.
<b>Enable DHCP Option 66 Override Server</b>	Activates DHCP option 66 to override upgrade/config servers.
<b>Zero Config</b>	Enables Zero Config feature for auto provisioning.
<b>Enable DHCP Option 120 Override SIP Server</b>	Enables DHCP Option 120 from local server to override the SIP Server on the phone. The default setting is enabled.
<b>Automatic Upgrade</b>	Enables automatic upgrade and provisioning. Set schedule for provisioning for either every X minute, every day, or every week. Default is No.

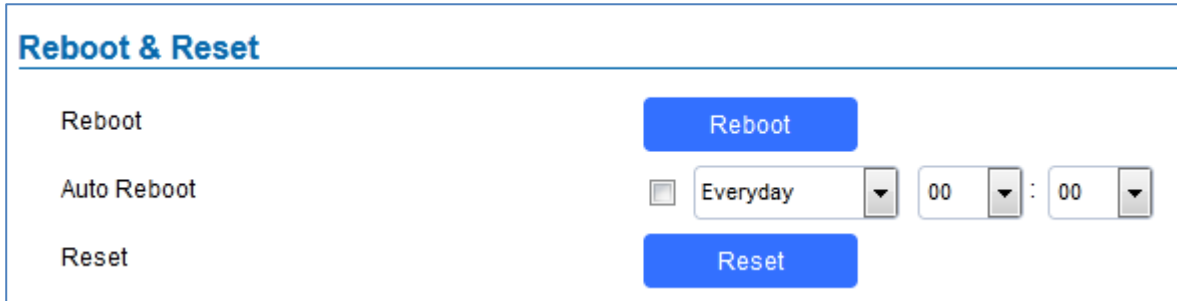


**Randomized Automatic Upgrade**

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.



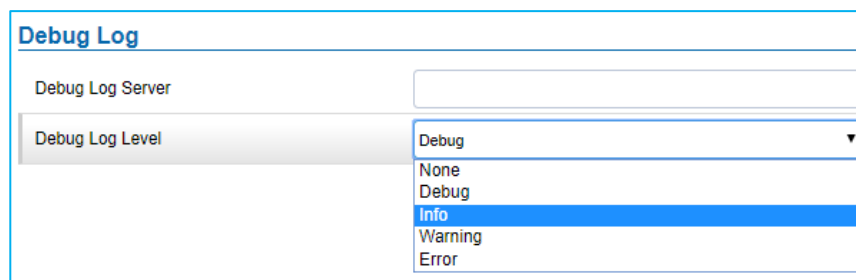
**Figure 40: Reset & Reboot Page**

**Table 22: Reset & Reboot**

<b>Reboot</b>	When clicked, the GSC361X will restart (soft reboot).
<b>Auto Reboot</b>	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.
<b>Reset</b>	Restore Factory Default Settings

## Debug Log

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



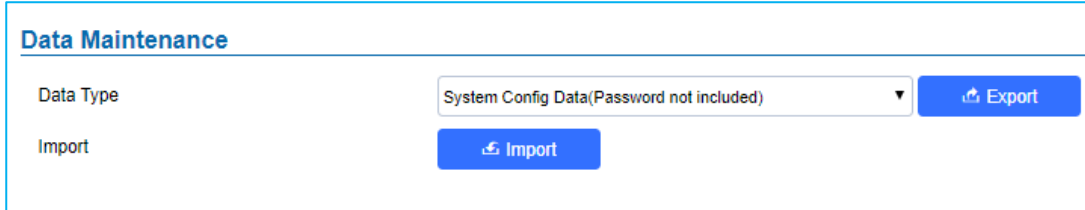
**Figure 41: Debug Log Page**

- 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

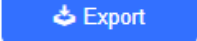
This page allows users to manage the GSC361X configuration file by importing/exporting configuration files.



The screenshot shows a web interface for 'Data Maintenance'. At the top left is the title 'Data Maintenance'. Below it, there is a 'Data Type' label followed by a dropdown menu currently showing 'System Config Data(Password not included)'. To the right of the dropdown is a blue 'Export' button with a download icon. Below the dropdown and to the left of the 'Export' button is an 'Import' label, and below that is a blue 'Import' button with an upload icon.

Figure 42: Data Maintenance Page

### Notes:

- Click on  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 Method

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)"}

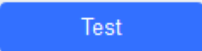
2: <body><mac>\$(MAC)</mac><content>\$(WARNING\_MSG)</content></body>

3: mac=\$(MAC)&content=\$(WARNING\_MSG)

**Figure 43: Log Manager Page**

**Table 23 : Log Manager Settings**

<b>Enable Event Notification</b>	Enables Event Notification feature
<b>Via Type</b>	Choose which protocol will be used to connect to the logs server (HTTP or HTTPS).
<b>HTTP Method</b>	Choose which type of HTTP(s) request to send (GET or POST)
<b>HTTP/HTTPS Server</b>	Enter the IP address of domain name for the logs server.
<b>HTTP Server Username</b>	Configure the username of your HTTP(s) server
<b>HTTP Server Password</b>	Configure the password of your HTTP(s) server
<b>URL Template</b>	<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"> <li>\$(MAC): MAC Address</li> <li>\$(TYPE): Event Type</li> <li>\$(WARNING_MSG): Event Message</li> <li>\$(DATE): Date &amp; Time</li> <li>\$(SIPNUM): SIP Number</li> </ul>

- 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			<a href="#">Upload</a> <a href="#">Delete</a>
2			<a href="#">Upload</a> <a href="#">Delete</a>
3			<a href="#">Upload</a> <a href="#">Delete</a>
4			<a href="#">Upload</a> <a href="#">Delete</a>
5			<a href="#">Upload</a> <a href="#">Delete</a>
6			<a href="#">Upload</a> <a href="#">Delete</a>
Custom Certificate			
No.	Issued By	Expiration	
1			<a href="#">Upload</a> <a href="#">Delete</a>

Figure 44: 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	<a href="#">Upload</a> <a href="#">Delete</a>
2			<a href="#">Upload</a> <a href="#">Delete</a>

Figure 45: 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		

Figure 46: 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.

#### Notes:

- 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**

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 47: System Info Page

## System Info

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



### System Info

Product Model	GSC3610
Hardware Version	V1.0C
Part Number	9670007110C
Boot Version	1.0.0.2
Core Version	1.0.1.3
Base Version	1.0.1.3
Prog Version	1.0.1.3
System Uptime	17 minutes

Firmware Status Press check button and reload page to check firmware availability.

Check

**Figure 48: System Info Page**

**Table 24: System Info**

<b>Product Model</b>	Displays the Product Model.
<b>Hardware Version</b>	Displays the Hardware Version.
<b>Part Number</b>	Displays the Part Number.
<b>Boot Version</b>	Displays the Boot Version.
<b>Core Version</b>	Displays the Core Version.
<b>Base Version</b>	Displays the Base Version.
<b>Prog Version</b>	Displays the Prog Version.
<b>System Up Time</b>	Displays the time since the first boot of the GSC361X.
<b>Firmware Status</b>	Click the <span style="background-color: #007bff; color: white; padding: 2px 5px; font-size: 0.8em;">Check</span> 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 49: Network Info Page**

**Table 25: Network Info**

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



## EXPERIENCING THE GSC3610/GSC3615

Please visit our website: <https://www.grandstream.com/support/faq> to receive the most up- to-date updates on firmware releases, additional features, FAQs, documentation and news on new products.

We encourage you to browse our [product related documentation](#), [FAQs](#) and [User and Developer Forum](#) for answers to your general questions. If you have purchased our products through a Grandstream Certified Partner or Reseller, please contact them directly for immediate support.

Our technical support staff is trained and ready to answer all of your questions. Contact a technical support member or [submit a trouble ticket online](#) to receive in-depth support.

