

# Grandstream Networks, Inc.

# GDS3710

# Hemispheric HD IP Video Door System

# **User Manual**







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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 User Manual, could void your manufacturer warranty.

### WARNING

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





## **FCC Compliance Statement**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) The device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Important: Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with 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 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.





## **CE Declaration of Conformity**

This transmitter complies with the essential requirements and provisions of directives 2014/53/EU, 2014/30/EU, 2015/35/EU and subsequent amendments, according to standards

ETSI EN 300 330 V2.1.1 (2017-02); ETSI EN 301 489-1 V2.1.1 (2017-02); ETSI EN 301 489-3 V2.1.1 (2017-03); EN 60950-1: 2006+A11:2009+A1:2010+A12:2011+A2:2013: EN 62311: 2008

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125 KHz
1
Internal
ASK
-30 °C ~ +60 °C
-35 °C ~ +60 °C
10 ~ 90% non-condensing





## **GNU GPL INFORMATION**

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Grandstream GNU GPL related source code can be downloaded from Grandstream web site from: <u>http://www.grandstream.com/support/faq/gnu-general-public-license/gnu-gpl-information-download</u>





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# **DOCUMENT PURPOSE**

This document describes the basic concept and tasks necessary to use and configure your GDS3710. And it covers the topic of connecting and configuring the GDS3710, making basic operations and the call features. Please visit <u>http://www.grandstream.com/support</u> to download the latest "GDS3710 User Manual".

This guide covers following topics:

- Product Overview
- Getting Started
- Getting to Know GDS3710
- GDS3710 Application Scenarios
- GDS3710 Peripheral Connections
- GDS3710 Home Web Page
- GDS3710 Settings
- <u>Connecting GDS3710 with GXV32XX</u>
- <u>Connecting GS Wave with GDS3710 Door System</u>
- GDS3710 HTTP API
- Factory Reset
- Experiencing the GDS3710





## **CHANGE LOG**

This section documents significant changes from previous versions of user manual for GDS3710. Only major new features or major document updates are listed here. Minor updates for corrections or editing are not documented here.

## **Firmware Version 1.0.7.4**

- Added ability to separate webUI credentials from the GDSManager credentials. [GDSManager Configuration Password]
- Added G.729 audio codec support. [Preferred Vocoder]
- Added ability to enable multiple audio codecs simultaneously and specify priority of codecs. [Preferred Vocoder]
- Added "Schedule" for firmware upgrade and provisioning. [Upgrade]
- Added support for randomize firmware upgrade and provisioning. [Upgrade]
- Added support for Voice Frame per TX in the audio settings. [Voice Frame Per TX]
- Added option to keep keypad blue light ON/OFF based on schedule. [Door System Settings]
- Added support for DHCP Option 120. [Enable DHCP Option 120 Override SIP Server]
- Added support for reregister before expiration option. [Re-register before Expiration (s)]
- Added support for anonymous RTSP Live View. [Enable Anonymous LiveView]
- Added support for DHCP Option 42. [Allow DHCP Option 42 to override NTP server]

#### **Firmware Version 1.0.5.6**

- Added support for 4 SIP accounts. [Account]
- Added option to configure DTMF Payload value. [DTMF Payload Type]
- Added option to disable outbound proxy route header. [Outbound Proxy Mode]
- Added support for Packetization Mode 0. [SIP Packetization Compatibility Mode]
- Added support for "Normal Open" or "Normal Close" setting when Alarm Out1 is set to Open Door. [ALMOUT1 Status]
- Added support for System Health Alerts via Email. [System Health Alert]
- Added option to upload custom doorbell ringtone. [Enable Custom Doorbell Ringtone]
- Added option to set Schedule for "Local PIN to Open Door". [Local PIN to Open Door Schedule]
- Added support for CSV format when Importing/Exporting Card user data. [Card Management]
- Added support for Anonymous Snapshot. [Enable Anonymous LiveView]
- Enhanced security by only allowing numbers existing under "White List" to open the door remotely when call is initiated from GDS3710. [Remote PIN to Open the Door]
- Added Boot version information into System status. [Boot Version]





## **Firmware Version 1.0.5.2**

- Added Alarm\_Out port (COM1 interface) be used as Open Door 2. [Using Alarm Out (COM 1) to Control a Second Door]
- Added option to Enable/Disable WebUI access. [Disable Web Access]
- Added option to define number of snapshots to be uploaded when opening door. [Number of Snapshots when Door Opened]
- Added option to specify digital input to be normal Open or normal Close. [Input Digit 1 Status]
- Added ability to set schedule for Alarm In door opening. [Select Alarm Schedule]
- Added support for using Digit Only as Private PIN. [Local PIN Type]
- Added option to configure "No Key Entry Timeout". [No Key Input Timeout]
- Added ability to email snapshot when door opened. [Snapshot when Door Opened]
- Added option to allow anonymous viewing. [Enable Anonymous LiveView]
- Added option to configure payload type for H.264. [H.264 Payload Type]
- Extended VLAN tag range from 0 to 4094. [Layer 2 QoS 802.1Q/VLAN Tag]
- Added option to use Emergency PIN to overwrite "Keep Door Open" schedule and lockdown. [Emergency PIN]
- Added ability to configure device with custom certificate signed by custom CA certificate. [Certificates]
- Added support for special character "@" in the SIP User ID. [SIP User ID]
- Added SIP NOTIFY to factory reset the GDS3710. [Allow Reset Via SIP NOTIFY] [Restore to Factory Default Via SIP NOTIFY]
- Added event log showing the users (Username) opening door via private PIN. [Event Log]

#### Firmware Version 1.0.4.9

- Added support for Parallel Hunting when doorbell pressed [Door Bell Call Mode]
- Enhanced HTTP Event Notification details: Added "CARDID" and "SIPNUM" [URL Template]
- Add support for TLSv1.2

#### Firmware Version 1.0.3.35

- Added option to assign a schedule to the doorbell. [Press Doorbell Schedule]
- Added option to set the maximum number of digits dialed. [Maximum Number of Dialed Digits]

#### Firmware Version 1.0.3.34

- Added support for video live view on Chrome/Firefox with no Plugin required. [Live View Page]
- Added option to send Snapshot via Email when doorbell pressed. [Snapshot when Doorbell Pressed]
- Added RTCP/RTCP-XR for SIP Call to meet Cloud Solution Service Provider. [Enable RTCP]
- Added alarm notification of non-scheduled access users. [Non-Scheduled Access Alarm]
- Added Keep Door Open section. [Keep Door Open]





• Added MJPEG Authentication Mode. [MJPEG Authentication Mode] [Live View Page]

## Firmware Version 1.0.3.32

- Added LED lighting indication pattern for firmware upgrade process. [Upgrade]
- Increased the maximum allowed whitelist numbers to 30 records with 20-digit length for each number [Account [1-4] White List]
- Added Support for HTTP command to Open Door. [Enable HTTP API Remote Open Door]
- Added display device logs at GDS web UI. [Event Log]
- Added valid start/end dates for Card Management. [Card Management]
- Added "Test" button for Alarm Action. [Alarm Action]
- Added "Alarm IN/OUT Status" display at GDS "Status" page UI.
- [Added Self-defined Even Notification Message. [Event Notification]

### Firmware Version 1.0.3.31

- Added ability to upload Trusted CA certificate files. [Certificates]
- Added support for multi-channel call mode. [Enable Multi-channel Call Mode]
- Added option to enable/disable certificate validation. [Certificates]

### **Firmware Version 1.0.3.23**

- Added Standard Mode and Broadsoft Mode in SIP Settings, Broadsoft Supported. [Special Feature]
- Added card ID number and phone number reported in event log message. [Event Notification]
- Added "Click-to-Dial" feature support. [Click-To-Dial]

#### Firmware Version 1.0.3.13

- Added option to disable alarm sound at phone side when event trigger SIP call to the phone. [Enable two-way SIP Calling]
- Increased maximum characters to 256 in "Number called when doorbell pressed" to allow serial hunting of SIP extensions or IP address with port or mixing of both, with each ring several seconds before going next. [Number Called When Door Bell Pressed]
- Added feature to capture snapshot when doorbell pressed. [Snapshot when Doorbell Pressed]
- Added feature to disable keypad input (lock keypad) and ONLY doorbell button can be pressed. [Disable Keypad (except the Doorbell Button)]
- Added option to disconnect call automatically after door open event. [Enable On Hook After Remote Door Opened]
- Issuing Mode automatically. [Card issuing State Expire Time(m)]
- Added ability for whitelist entries to open door using remote PIN. [Account [1-4] White List]





### Firmware Version 1.0.2.25

- Added if schedule disabled, GDS3710 will bypass the option to open door. [Group overrides Schedule]
- Implemented the HTTP Upload (RFID card) Log Event support for 3<sup>rd</sup> party Software Integration. [Event Notification]

#### Firmware Version 1.0.2.22

• No major changes.

### Firmware Version 1.0.2.21

- Allow config and call IP address format on SIP field when dialing the Virtual Number. [SIP Number]
- Added "Silent Alarm" Mode. [Enable Silent Alarm Mode]
- Added option Backup/Restore including all passwords like SIP/FTP/Remote Access, etc. [Data Maintenance]
- Added schedule support for Card and PIN. [Schedule]
- Added LLDP support. [Enable LLDP]
- Added database automatic backup and synchronization.
- Modified WebGUI style.
- Added card information batch delete option in the WebGUI. [Users Operation]
- Added option to enable "Motion Detection", "Tamper Alarm" and backlight partially light. [Tamper Alarm] [Motion Detection] [Enable Background Light]
- Added card user limitation up to 2000 and group limit to 50. [Card Management] [Group]
- Added Card and PIN schedule configuration Central Mode. [Central Mode]
- Added LDC Ratio Control and Adjustment. [LDC Ratio]
- Expended the range of Ring timeout. [Ring Timeout]
- Added option to disable Auto Answer. [Auto Answer]
- Updated the "DingDong" tone when doorbell pressed.
- Added function to check the default value.
- Added Factory Reset via special procedures. [Hard Factory Reset]
- Added file upload and download (card information, configuration etc.) can be executed after authentication. [Card Management]
- Added enforcement that when admin password is changed via WebGUI, user has to fill in a Valid Email Account to retrieve the email before the new admin password taking effect. [User Management]

#### Firmware Version 1.0.2.13

- Added support of ONVIF Profile S.
- Added "Privacy Mask" support in Motion Detection Setting. [Privacy Masks]
- Updated OCX plugin engine to Version 3.1.0.74





- Added DTMF Open Door control option in WebGUI [Enable DTMF Open Door]
- Added HTTP API support [GDS3710 HTTP API].
- Optimized HTTP API for Card Management.
- Added "Enable Blue Doorbell Light" option in the webGUI. [Door System Settings]
- Added switch on the doorbell blue light by configured time period of the day. [Door System Settings]
- Implemented "Silent Alarm" mode. [Enable Silent Alarm Mode]

### Firmware Version 1.0.2.9

- Added back DTMF Open Door as optional choice, with user acknowledging the security risk. [Enable DTMF Open Door]
- Revised "Alarm Output Duration(s)" choice option as 5/10/15/20/25/30 seconds.

### **Firmware Version 1.0.2.5**

- Added folder creation and file arrangement if multiple GDS3710s are uploading snapshots to FTP server.
- Added DTMF audio playing when key be pressed. [Key Tone Type]
- Separated volume control under Web GUI -> Audio Settings. [System Volume][Doorbell Volume]
- Added "Audio, Snapshot, Recording and File Path Saved" operation with icons at Live View webpage. [Live View Page]
- Added "show password" feature when the eye icon be clicked in the webGUI.
- Added prompt popup message when capture button clicked.
- Use different email title to separate the Motion Detection and Temperature Out of the Range alarm.
- Set initial value of "0" for Virtual Number and SIP number if user leaving the field empty. [Virtual Number][SIP Number]
- Added support open door remotely via GDS Manager utility (after GDS Manager version 1.0.0.78)
- Supported GXP color phone JPEG\_Over\_HTTP with encryption and authentication. This feature is pending on GXP/UCM6xxx firmware availability. Currently this feature does not support 3rd party PBX if SIP extension is used in Open Door configuration.
- Added SSH support with default TCP port 22. [Enable SSH][SSH Port]
- Added GS\_Wave (Android/iOS) Application support for Open Door. [CONNECTING GS WAVE WITH GDS3710 DOOR SYSTEM].
- Enhanced webGUI login process and added random default password.
- Enhance security by disable the DTMF to open door
- Added support of sending DTMF tone in SIP calling (RFC2833, SIP INFO). [Enable DTMF]

### **Firmware Version 1.0.1.19**

• This is the initial version for GDS3710.





## WELCOME

Thank you for purchasing Grandstream GDS3710 Hemispheric HD IP Video Door System, an innovative IP based powerful video door system.

GDS3710 HD IP Video Door System is a hemispheric IP video door phone with an integrated high-definition IP surveillance camera. GDS3710 is ideal for monitoring from wall to wall without blind spots. Powered by an advanced Image Sensor Processor (ISP) and state of the art image algorithms, it delivers exceptional performance in all lighting conditions. The GDS3710 IP video door system features industry-leading SIP/VoIP for 2-way audio and video streaming to smart phones and SIP phones. It contains integrated PoE, LEDs, HD loudspeaker, RFID card reader, motion detector, lighting control switch and more.

GDS3710 HD IP Video Door System can be managed by Grandstream's free windows-based management software: GDS Manager is a client/server based software which provided RFID card management and basic reports for the door entrance.

Along with Grandstream videophone, mobile Apps, and Network Video Recorder (NVR), the GDS3710 provides a powerful recording and monitoring solution. It can be managed with GSURF Pro or any ONVIF-compliant video management system. It also offers a flexible HTTP API for easy integration with 3<sup>rd</sup> party applications and other surveillance systems.

GDS3710 is ideal for entry places requiring a wide-angle monitoring, such as banks, hotels, schools, office buildings, retail stores and small warehouses, and for most small to medium sized enclosed environments.





## **PRODUCT OVERVIEW**

## **Feature Highlights**

The following table contains the major features of the GDS3710.



#### Table 1: GDS3710 Features in a Glance

- High-performance streaming server allowing multiple simultaneous streaming session accesses.
- 2 Megapixel Progressive Scan CMOS, 1920H x 1080V.
- Broad interoperability with most 3<sup>rd</sup> party SIP/VoIP devices and leading SIP/NGN/IMS platforms.
- 2 Channels Input/Output alarm.
- RS485, Wiegand (26 bits) Input and Output.
- RFID card reader.
- Weather proof, vandal resistant.

## **Technical Specifications**

The following table resumes all the technical specifications including the protocols / standards supported, voice codecs, telephony features and upgrade/provisioning settings for GDS3710.

Video Compression	H.264 High Profile / Main Profile / Base Profile, Motion JPEG.
Image Sensor Resolution	1/2.7", 2 Megapixel, 1920H x 1080V.
Lens Type	1/2", F2.5, FOV: 180°(W) x 150°(H).
Day & Night Mode	White LEDs with smart brightness control.
Max Video Resolution	1920x1080.
Max Frame Rate	30 frames per second.
Minimum Illumination	0.5Lux.
Wide Dynamic Range	Yes, up to 120dB.
Embedded Analytics	Motion detection.

#### Table 2: GDS3710 Technical Specifications





Snapshots	Triggered upon events, sent via email and/or FTP.
	High-performance streaming server allowing multiple simultaneous accesses:
Multi-stream	• Primary video stream: 1920 x 1080 resolution for continuous full HD recording.
Resolution	• Secondary video stream: 640 x 480 resolution for SIP/VoIP video calls.
	• Third video stream: 320 x 240 resolution for smartphone Apps.
	TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS local upload and mass provisioning using
Network Protocols	TR-069 (pending), ARP/RARP, ICMP, DNS, DHCP, SSH, SMTP, TFTP, NTP,
	STUN, TLS, SRTP.
SIP/VoIP Support	Broad interoperability with most 3rd party SIP/VoIP devices and leading SIP/NGN/IMS platforms.
Voice Codecs	G.711 $\mu$ /a-law, G.722, in-band and out-of-band DTMF (in audio, RFC2833, SIP
	INFO), AEC.
QoS	Layer 2 QoS (802.1Q, 802.1P) and Layer 3 QoS (ToS, DiffServ, MPLS).
	User and administrator level access control (pending), MD5 and MD5-sess based
Security	authentication, 256-bit AES encrypted configuration file, TLS, SRTP, HTTPS,
	802.1Q.
Upgrade /	Firmware upgrade via TFTP/HTTP/HTTPS, mass provisioning using TR-069
Provisioning	(Pending) or AES encrypted XML configuration file.
Audio Input	Built-in Digital Microphone, up to 1.5m with AEC.
Audio Output	Built-in HD Loudspeaker (2 Watt), sound quality suitable for up to 3 m.
Keypad / Buttons	12-key touchpad plus a capacitive doorbell button, each with individual LED illumination.
RFID	125KHz: EM4100 (1 RFID card and 1 RFID key fob included).
Alarm Input	Yes, 2 channels, $Vin < 15V$ , for door sensor or other devices.
Alarm Output	Yes, 2 channels, 125VAC/0.5A, 30VDC/2A, Normal Open or Normal Close, for
	electric lock, light switch or other devices.
Network Interface	10M/100M auto-sensing.
Expansion Interface	RS485, Wiegand (26 bits) input and output.
Dimensions and	173mm(H) x 80mm(W) x 36mm(D).
Weight	0.6 Kg.
Power Supply	PoE (Power over Ethernet) IEEE 802.3af Class 3, or 12VDC/1A connection (AC
	power adapter not included).
Interoperability	ONVIF (Profile S).
Ingress Protection	Weather proof, vandal resistant, with support for extra back reinforcing metal plate
Temperature and	Operation: -30°C to 60°C (-22°F to 140°F)





Humidity	Storage: -35°C to 60°C (-31°F to 140°F)
	Humidity: 10% to 90% Non-condensing
Protection Class	IP66 (EN60529), IK09 (IEC62262).
	FCC: Part 15 subpart B Class B; Part 15 C; MPE
	CE: EN 55032 Class B; EN 61000-3-2; EN 61000-3-3; EN 50130; EN 60950-1; EN
Compliance	300330; EN 301489; EN 62311
	RCM: AS/NZS CISPR 22; AS/NZS 4268; AS/NZS 60950.1
	IC: ICES-003; RSS310





## **GETTING STARTED**

This chapter provides basic installation instructions including the list of the packaging contents and information for obtaining the best performance using the GDS3710 Video Door System.

## **Equipment Packaging**

- 1 x GDS3710
- 1 x Installation Bracket
- 1 x Drilling Template
- 1 x Protecting Cap
- 3 x Rubber Gaskets (for sealing the back cable)
- 6 x Back Panel Screws
- 6 x Bracket Screws and Anchors
- 4 x Anti-tamper screws
- 1 x Anti-Tamper Hex Key

- Table 3: Equipment Packaging
  - 1 x Wiegand Cable
  - 1 x Lens Cleaning Cloth
  - 1 x RFID Card (more can be purchased from Partner/reseller)
  - 1 x Key Fob (more can be purchased from Partner/reseller)
  - 1 x Frame Back Cover
  - 1 x Quick Installation Guide
  - 1 x GPL License



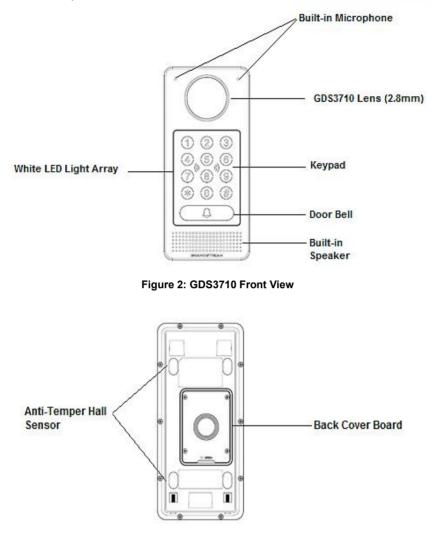
Note: Check the package before installation. If you find anything missing, contact your system administrator





## **Description of the GDS3710**

Below figures show the component of the back and front view of GDS3710 IP Video Door System:





### **Connecting and Setting up the GDS3710**

The GDS3710 can be powered using PoE or PSU:

#### Using PoE as power supply (Suggested)

- Connect the other end of the RJ45 cable to the PoE switch.
- PoE injector can be used if PoE switch is not available.

#### Using the power adapter as power supply (PSU not provided)

- Connect the other end of the RJ45 cable to network switch or router.
- Connect DC 12V power source via related cable to the corrected PIN of the GDS3710.





## **GDS3710 Wiring Connection**

Jack	Signal	Function		Note				
	TX+		Orange / White					
	TX-		Orange	Data				
	RX+	Ethernet	Green / White	Data				
	RX-	PoE 802.3af	Green					
J2 (Basic) 3.81mm		Class 3, 12.95W	Blue + Blue/White	Please twist these two wires together and connect to				
	PoE_SP1		Brown + Brown/White	SP1, SP2 respectively even the PoE NOT used.				
	RS485_B	RS485						
	RS485_A							
	GND	Power Supply	DC 12V, 1A Min	limum				
	12V GND	Alarm GND						
	ALARM1_IN+	Alaim GND						
	ALARM1_IN-	Alarm In	Vin<15V					
J3	ALARM2_IN+							
(Advanced) 3.81mm	ALARM2_IN- NO1							
5.0111111	COM1	Alarm Out	Relay: 30VDC/2	2A; 125VAC/0.5A				
	NO2			e" (Locked when Power Lost) Strike, connect COM2 &				
	COM2	Electric Lock	NO2. For "Fail Safe" (	Open when No Power) Magnetic Lock, connect COM2 &				
	NC2		For "Fail Safe" (Open when No Power) Magnetic Lock, connect COM2 & NC2. Relay: 30VDC/2A; 125VAC/0.5A					
J4 (Special) 2.0mm	GND	Wiegand Power GND	Black	Both Input and Output MUST be connected				
	WG_D1_OUT	Wiegand Output	Orange	GDS3710 function as Output of Card Reader, Connect				
	WG_D0_OUT	Signal	Brown	Pin 1, 2, 3				
	LED	Wiegand Output LED Signal	Blue	For External Card Reader; Or GDS3710 as Receiver Only				
	WG_D1_IN	Wiegand Input	White For External Card Reader					
	WG_D0_IN	Signal	Green	Connect Pin 1,4,5,6,7,8				
	BEEP	Wiegand Output BEEP Signal	Yellow For External Reader Only					
	5V	Wiegand Power Output	Red	For External Card Reader Only. 12VDC powered External Card Reader must use own power source, can NOT use this Pin.				

#### Table 4: GDS3710 Wiring Connection





### **GDS3710 Back Cover Connections**

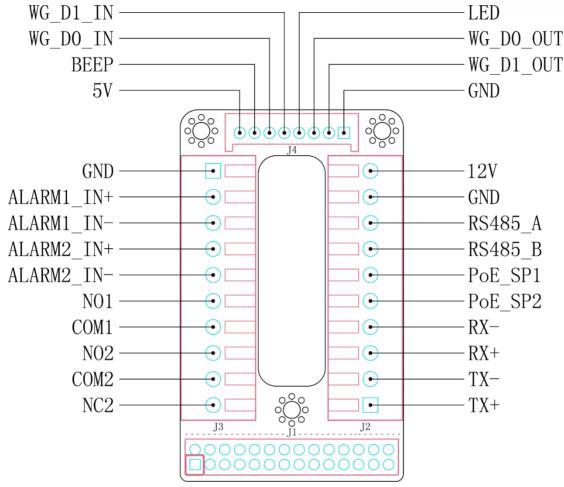


Figure 4: GDS3710 Back Cover Connections

## **Connection Example**

To connect the GDS either by using PoE or PSU follow steps below:

• Open the Back-Cover Board of the GDS3710 which should look like following figure.





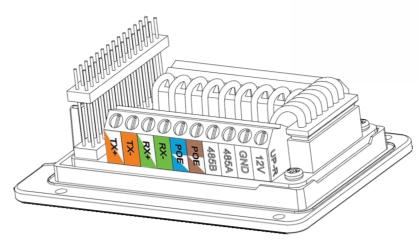
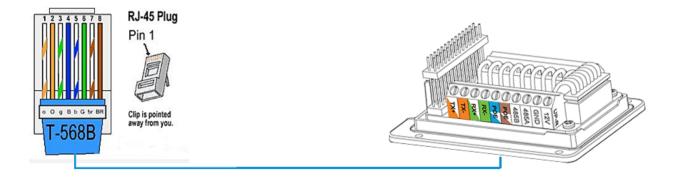


Figure 5: GDS3710 Back Cover

#### Power the unit using PoE

Cut into the plastic sheath of your Ethernet cable, then Unwind and pair as shown below.
 Use the TIA/EIA 568-B standard, which define pin-outs for using Unshielded Twisted Pair cable and RJ-45 connectors for Ethernet connectivity.



#### Figure 6: Connection Example

 Connect each wire of the cable to its associate on the Back Cover of the GDS3710 to power the unit using PoE.

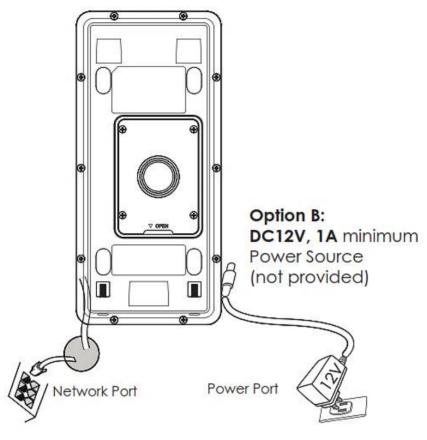
#### Power the unit using PSU

• To power the unit using PSU, use a multimeter to detect the polarity of your Power Supply, then connect GND to negative pole and 12V to positive pole of the PSU.





**Note:** If the user doesn't have PoE switch, there is no need to connect the Blue and Brown wires to the GDS3710 since these wires are used to power the unit via Ethernet.









# **GETTING TO KNOW GDS3710**

The GDS3710 has an embedded Web server to respond to HTTP/HTTPS GET/POST requests. Embedded HTML pages allow users to configure the GDS3710 through Microsoft Internet Explorer or Mozilla Firefox.

Download WebControl Plug-in from the GDS3710 WebGUI. For Apple platform OS-X, only MJPEG video codec supported currently.

#### Notes:

- Please disable temporarily the Antivirus or Internet Security Software when download and install the Grandstream WebControl Plug-in for Firefox/Chrome or "GSViewerX.cab" for Microsoft Internet Explorer. Please close Browser to install the downloaded Plug-in or Active-X.
- > Please trust and install the file downloaded if prompted by the Antivirus or Security software.

### **Connecting GDS3710 to Network with DHCP Server**

The GDS3710 by default has a DHCP client enabled, it will automatically get IP address from DHCP server.

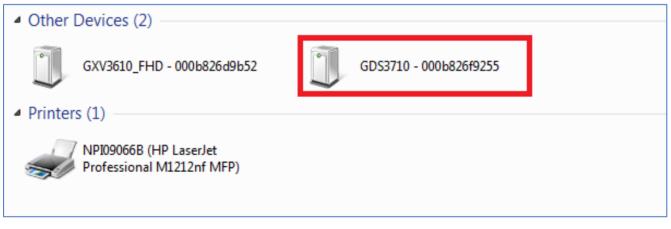
#### Windows Platform

Two ways exist for Windows user to get access to the GDS3710:

#### UPnP

By default, the GDS3710 has the UPnP feature turned ON. For customers using Windows network with UPnP turned on (most SOHO routers support UPnP), it is very easy to access the GDS3710:

- 1. Find the "Network" icon <u>Network</u> on the windows Desktop.
- 2. Click the icon to get into the "Network", the GDS3710s will list as "Other Devices" shown like below. Refresh the pages if nothing displayed. Otherwise, the UPnP may not be active in the network.



#### Figure 8: Detecting GDS3710 via UPnP





3. Click on the displayed icon of related GDS3710, the default browser (e.g.: Internet Explorer, Firefox or Chrome) will open and connect directly to the login webpage.

CONNECTING THE WORLD		English ×
	Welcome to GDS3710	
	L Please enter Username	
	Please enter Password Forgot Password ?	
	Login	
	Copyright © Grandstream Networks, Inc. 2019. All Rights Reserved.	

Figure 9: GDS3710 Login Page

- 4. Once logged in, the prompt message will display asking for plug-in installation.
- 5. Disable security or antivirus software, download and install the plug-in, close and open the browser again, the embedded video will be displayed if clicking the "LiveView" and pressing the stream number.

#### **GS Search**

GS search is a program that is used to detect and capture the IP address of Grandstream devices, below are instructions for using the "GS Search" utility tool:

- 1. Download the GS Search utility tool from Grandstream website using the following link: <u>http://www.grandstream.com/sites/default/files/Resources/GS\_Search.zip</u>
- 2. Double click on the downloaded file and the search window will appear.
- 3. Click on <u>Search</u> button to start the discovery for Grandstream devices.
- 4. The detected devices will appear in the output field like below.





ndex	Model	Version	Device Name	IP	HTTP Port	RTSP Port	MAC	1
	DOORCAM GDS3710	1.0.2.21	GDS3710	192.168.5.13	443	554	00:0B:82:A4:0D:95	
	DOORCAM GDS3710	1.0.2.22	GDS3710	192.168.6.42	443	554	00:0B:82:A7:9C:16	

Figure 10: GS Search Discovery

5. Double click on a device to access its webGUI.

#### **GDS Manager Utility Tool**

User can know the IP address assigned to the GDS3710 from DHCP server log or using the Grandstream GDS Manager after installing this free utility tool provided by Grandstream. User can find instructions below, for using "GDS Manager" utility tool:

- 1. Download the GDS Manager utility tool from Grandstream website using the following link: http://www.grandstream.com/sites/default/files/Resources/gdsmanager.zip
- 2. Install and run the Grandstream GDS Manager, a client/server architecture application, the server should be running first, then GDSManager (client) later:



3. On the GDS Manager access to Device → Search and Click on the detection

Search button to start device

4. The detected devices will appear in the output field like below:





Function Navigation	× Search by s	erver		🔍 Search	🕂 Add			
□     ↓     ■     Basic Information       □     ↓     ↓     ↓       □     ↓     ↓       □<	☐ Index ☐ 1 ☐ 2	Model GDS3710 GDS3710	Version 1.0.2.21 1.0.2.22	Device Name GDS3710 GDS3710	IP 192.168.5.13 192.168.6.42	HTTP Port 443 443	RTSP Port 554 554	Mac 00:0B:82:A4:0D:95 00:0B:82:A7:9C:16
Holiday								
Q <u>Search</u> 								

#### Figure 11: GDS3710 Detection

- 5. Double click the column of the detected GDS3710, the browser will automatically open and show the device's web configuration page.
- 6. The browser will ask for plug-in if not installed, please authorize the installation of the plug-in.
- 7. Enter the administrator user name and password to access the Web Configuration Interface, the default admin username is "**admin**" and the default random password can be found at the sticker on the GDS3710.
- 8. The plug-in can be downloaded from the GDS3710 Web GUI.

#### **Apple Platform**

For Apple users, please turn on Bonjour of Safari to find and access the GDS3710.

- 1. Open Safari, select "Advanced" to open the Advanced Setting.
- 2. Click "Include Bonjour in the Bookmarks menu" and "Include Bonjour in the Favorites bar" then close the setting page and back to Safari.

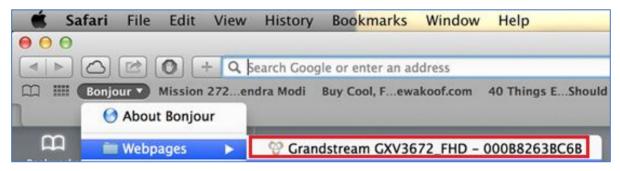




	Advanced
General Tabs AutoFill Passwords Search St	ecurity Privacy Notifications Extensions Advanced
General Tabs Autorni Passwords Search St	ecunty Privacy Notifications Extensions Advanced
Smart Search Field:	Show full website address
Accessibility:	<ul> <li>Never use font sizes smaller than</li> <li>Press Tab to highlight each item on a webpage</li> <li>Option-Tab highlights each item.</li> </ul>
Bonjour:	<ul> <li>Include Bonjour in the Bookmarks menu</li> <li>Include Bonjour in the Favorites bar</li> </ul>
Internet plug-ins:	Stop plug-ins to save power
Style sheet:	None Selected
Default encoding:	Western (ISO Latin 1)
Proxies:	Change Settings
	Show Develop menu in menu bar

Figure 12: Apple Safari Settings Page

3. Bonjour will now display embedded at Safari. Select "Bonjour" pull-down menu and select "Webpages", the related device like GDS3710 will be there.



#### Figure 13: Bonjour Setting Page

- 4. Click on the displayed GDS3710 to access to the configuration page of the GDS3710.
- To see the MJPEG video stream, users should type in the browser the following URL while specifying the correct protocol (either HTTP or HTTPs and the correct port number) : http(s)://IP\_address\_GDS:Port/jpeg/mjpeg.html

#### Notes:

• The instructions provided above are based on Safari/OS-X, other Apple platform like iOS (iPhone/iPad) can use similar method.





Overview Displays Storage Support Service	
OS X El Capitan Version 10.11.5 MacBook Air (13-inch, Mid 2012) Processor 1.8 GHz Intel Core I5	
Memory 4 GB 1600 MHz DDR3 Startup Disk Hicham Graphics Intel HD Graphics 4000 1536 MB	Safari
Serial Number C02J222YDRVG	Version 9.1.1 (11601.6.17)
System Report Software Update	Copyright © 2003–2016 Apple Inc. All rights reserved.
™ and © 1983-2016 Apple inc. All Rights Reserved. License Agreement	

- iPhone/iPad (iOS) users are recommended to use Applications in Apple Store.
- Free or Paid applications from Apple Store like "IP Cam Viewer" is suggested and verified working with Grandstream GDS3710.
- Apple Store applications like "IP Cam Viewer" will support H.264 video codec.

# **Connect to the GDS3710 using Static IP**

If there is no DHCP server in the network, or the GDS3710 does not get IP from DHCP server, user can connect the GDS3710 to a computer directly, using static IP to configure the GDS3710.

- 1. The default IP, if no DHCP server, or DHCP request times out (after 3 minutes), is **192.168.1.168**
- 2. Connect the Ethernet cable from GDS3710 to the computer network port directly.
- 3. Configure the computer using Static IP: 192.168.1.XXX (1<XXX<255, except for 168) and configure the "Subnet mask" to "255.255.255.0". Leave the "Default Gateway" to "Blank" like below:





Internet Protocol Version 4 (TCP/IPv	4) Properties
General	
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	
Obtain an IP address automatical	ly
Ouse the following IP address:	
IP address:	192.168.1.100
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	· · ·
Obtain DNS server address autor	natically
Ouse the following DNS server add	resses:
Preferred DNS server:	
Alternate DNS server:	· · ·
Validate settings upon exit	Advanced
	OK Cancel

Figure 14: Static IP on Windows

- 4. Power on the GDS3710, using PoE injector or external DC power.
- 5. Enter 192.168.1.168 in the address bar of the browser, log in to the device with admin credentials. the default admin username is "**admin**" and the default random password can be found at the sticker on the GDS3710.
- 6. The browser will ask for plug-in or ActiveX if not installed, otherwise it will get to Home page and show web interface of GDS3710.
- 7. Access the Web Configuration Interface. Internet Explorer will indicate that "This website wants to install the following add-on: GSViewerX.cab from Grandstream Networks Inc.", allow the installation.

**Note:** Please disable temporarily Antivirus or Internet Security Software and close all browsers when download and install the Grandstream Plug-in Software.





# **GDS3710 APPLICATION SCENARIOS**

The GDS3710 Door System can be used in different scenarios.

## **Peering Mode without SIP Server**

For environment like remote warehouse/storage, grocery store, small (take-out) restaurants, just using static IP with PoE switch to form a LAN, using Grandstream's video phone GXV3240 or GXV3275, the GDS3710 will meet your very basic intercom, open door and surveillance requirement.

This is the solution to upgrade the traditional analogue Intercom and CCTV security system. All you need is a Power source, Switch or PoE Switch and Grandstream GXV3240 or GXV3275 video phones.

The equipment list can be found below:

- GDS3710
- GXV3240 or GXV3275
- PoE Switch with related Cat5e/Cat6 wiring

# Peering using SIP Server (UCM6XXX)

For large deployment, multiple GDS3710 might be required, peered connection will not work in such case due to multiple connections. Such scenarios require an IPPBX or a SIP Proxy to accomplish the tasks.

If remote access is required, a router with internet access should be added to below needed equipment list:

- Several GDS3710
- UCM6XXX or another SIP Server
- GXV3240 or GXV3275 Video Phones
- PoE Switch with related Cat5e/Cat6 wiring
- Electronic Lock

If remote access to the GDS3710 is required for viewing live video stream, Internet access is required and more equipment such as:

- Router.
- Internet Access (Optical fiber, 3G, 4G, Cable or DSL).
- iPhone or Android phone with 3rd party applications (IP Cam Viewer for instance).





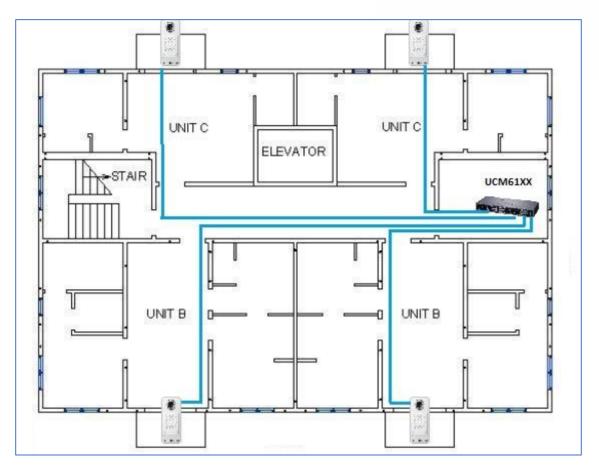


Figure 15: Peering GDS3710 with UCM6XXX

# Using a Network Video Recorder (NVR)

For implementation with more than two GDS3710s, if local video recording is required to store the record, then a NVR will be added to save all the video stream when people enter the door.

Equipment List:

- Several GDS3710
- NVR supporting Onvif Profile S.
- PoE switches with Cat5e/Cat6 wiring
- Router
- Internet Access (Optical fiber, 3G, 4G, Cable or DSL).
- iPhone or Android phone with 3rd party APP





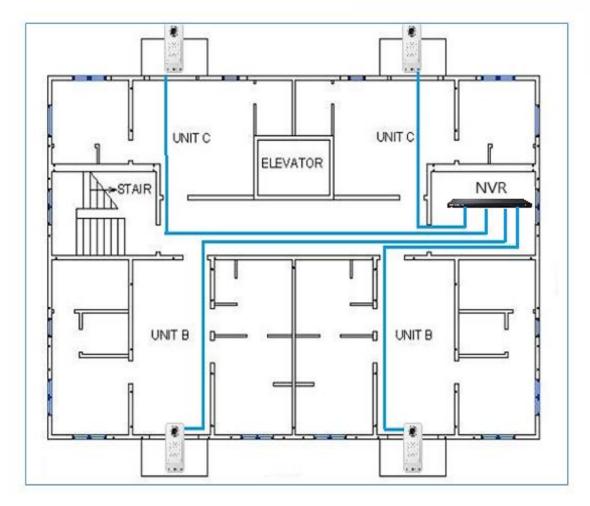


Figure 16: Peering GDS3710 with GVR3550





# **GDS3710 PERIPHERAL CONNECTIONS**

Below is the illustration of GDS3710 peripheral connections for related applications.



Figure 17: Peripheral Connections for GDS3710





# Alarm IN/OUT

Alarm\_In could use any 3rd party Sensors (like IR Motion Sensor).

Alarm\_Out device could use 3rd party Siren and Strobe Light, or Electric Door Striker, etc.

The figure below shows illustration of the Circuit for Alarm\_In and Alarm\_Out.

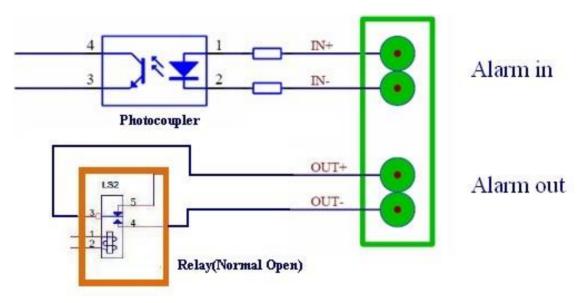


Figure 18: Alarm\_In/Out Circuit for GDS3710

### Notes:

• The Alarm\_In and Alarm\_Out circuit for the GDS3710 should meet the following requirement:

Alarm Input	3V <vin<15v, (1.02kω)<="" pins="" th=""></vin<15v,>
Alarm Output	125VAC/0.5A, 30VDC/2A, Normal Open, PINs

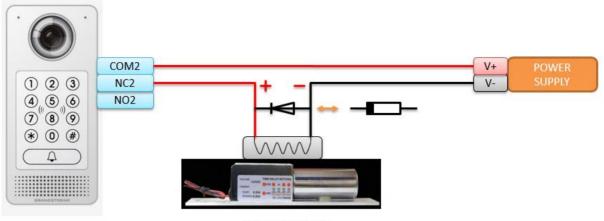
- The Alarm\_In circuit, if there is any voltage change between 3V and 15V, as specified in the table above, the GDS3710 Alarm\_In port will detect it and trigger the action and event.
- Higher voltage and wrong polarity connection are prohibited because this will damage the devices.

# **Protection Diode**

When connecting the GDS3710 to a door strike it is recommended to set an EMF protection diode in reverse polarity for a secure use, below examples of deployment for the protection diode.







Electric lock

Figure 19: Protection Diode - Example 1

The reverse EMF protection diode must always be installed in reverse polarity across the door strike.

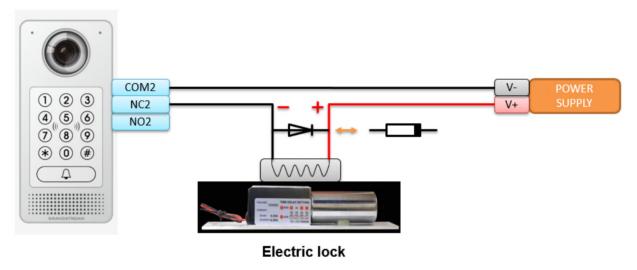


Figure 20: Protection Diode - Example 2

Note: power polarity connection: Diode: SS24 or If>=2A, Vr>=40V.

# **Connection Examples**

Below examples, show how to use wiring on the back cover of the GDS3710 to connect with external devices. The "NO" (Normal Open) model strike is used as example, "NC" (Normal Closed) should be similar and users need to decide which model (NO or NC) to be used on the door.





### Wiring Sample using 3rd Party Power Supply

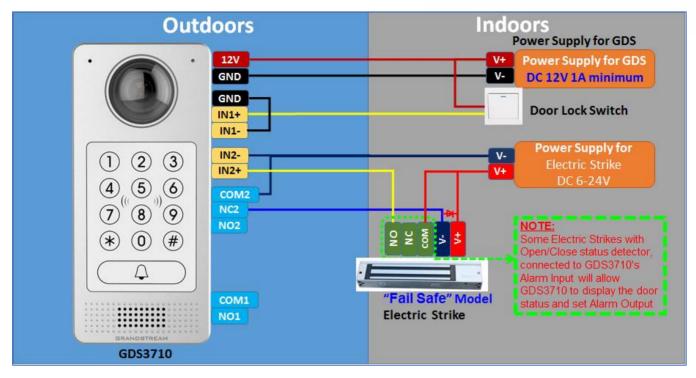


Figure 21: 3<sup>rd</sup> party Power Supply Wiring Sample

## Wiring Sample using Power Supply for both GDS3710 and Electric Strike

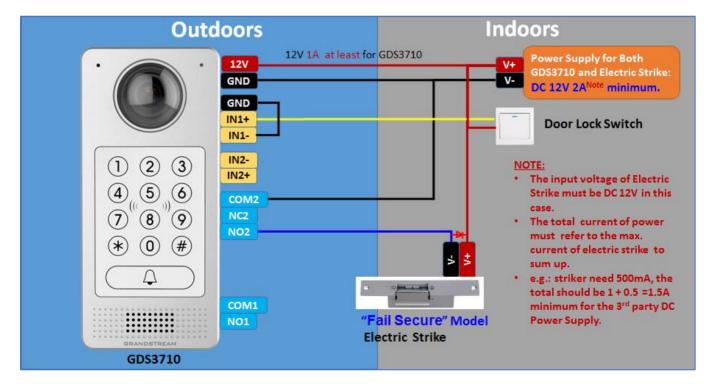


Figure 22: Power Supply used for both GDS3710 and Electric Strike





## Wiring Sample using PoE to power GDS3710 and 3rd Party Power Supply for Electric Strike

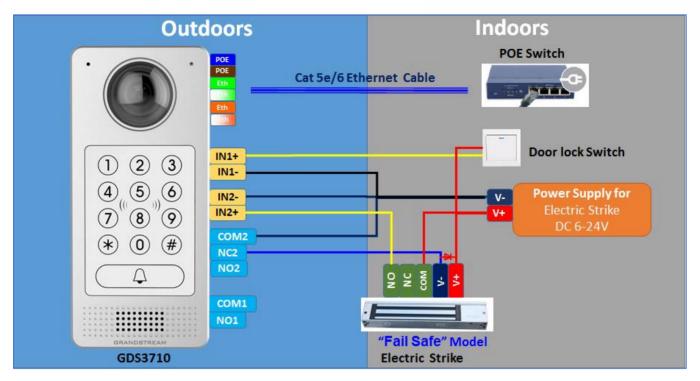


Figure 23: Wiring Sample using PoE to power GDS3710 and 3rd party Power Supply for Electric Strike

*Warning*: The following example should be avoided when powering the electric strike.

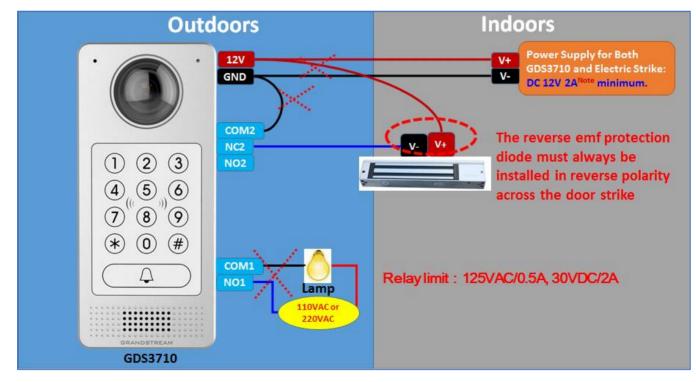
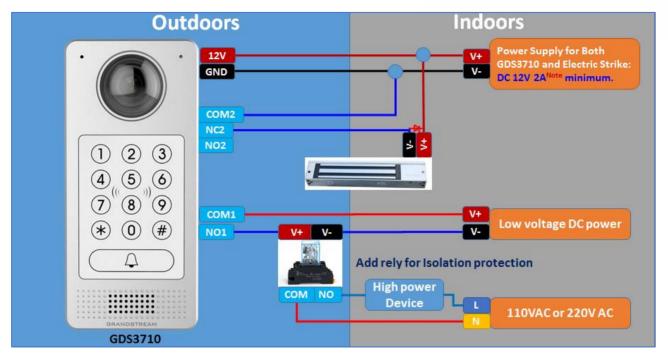


Figure 24: Example to Avoid when Powering the Electric Strike







## Good Wiring Sample for Electric Strike and High-Power Device

Figure 25: Electric Strike and High-Power Device Example

# **Wiegand Module Wiring Examples**

GDS3710 package is shipped with one Wiegand cable for Input/Output Wiegand connections. The following examples shows how to connect the Wiegand Input/Output devices to the GDS3710.

## Input example with 3<sup>rd</sup> party power supply for Wiegand device

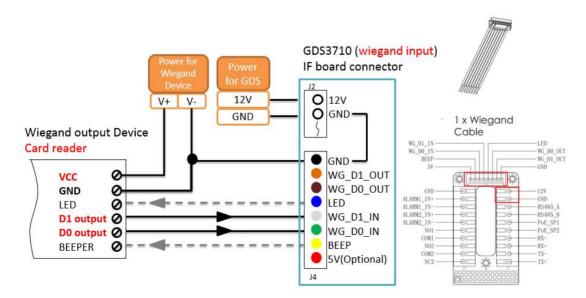


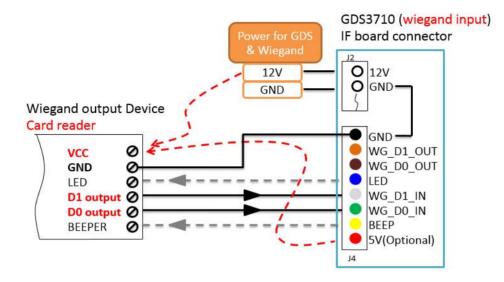
Figure 26: Wiegand Input Example with 3rd party Power Supply





Make sure to connect the GND of the Wiegand device and the GDS3710 Wiegand port. For Wiegand input mode, LED and Beep pins require that the Wiegand device support those interfaces.

These two pins will not affect the Wiegand bus when not connected.



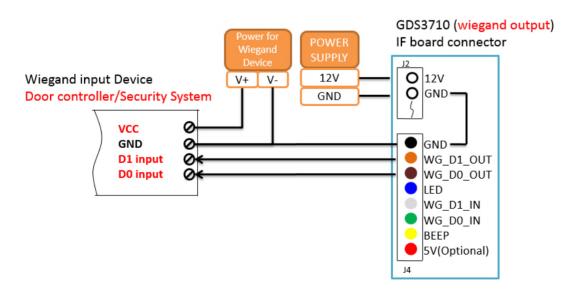
## Input example with power supply for both GDS3710 and Wiegand device

#### Figure 27: Wiegand Input Example with Power Supply for GDS3710 and Wiegand Device

If power source is **12VDC**, Wiegand device can share same power source of GDS3710. However, users need to check the max power consumption and the max capability of the power source.

If Wiegand device is using **5VDC**, GDS3710 Wiegand port can provide 5VDC with max 500mA to power up Wiegand device.

## Output example with 3<sup>rd</sup> party power supply for Wiegand device

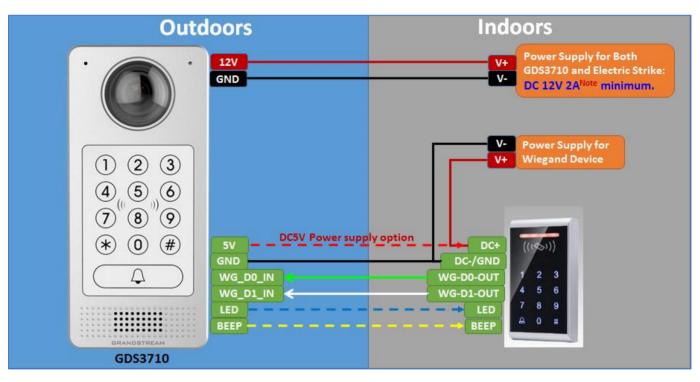


#### Figure 28: Wiegand Output Wiring Example





When the Wiegand output of the GDS3710 is connected, it acts as the signal receiver of the 3<sup>rd</sup> party Wiegand device, connecting to door controller. The major wiring is GND, D0, and D1. Because usually the door controller will consume big current and power, the power supply should be separated.



## Wiegand RFID Card Reader Example

Figure 29: Wiegand RFID Card Reader Example





# **GDS3710 HOME WEB PAGE**

Once logged in successfully to the GDS3710, user will see the following page.

Note: the options displayed might differ from browser to another.

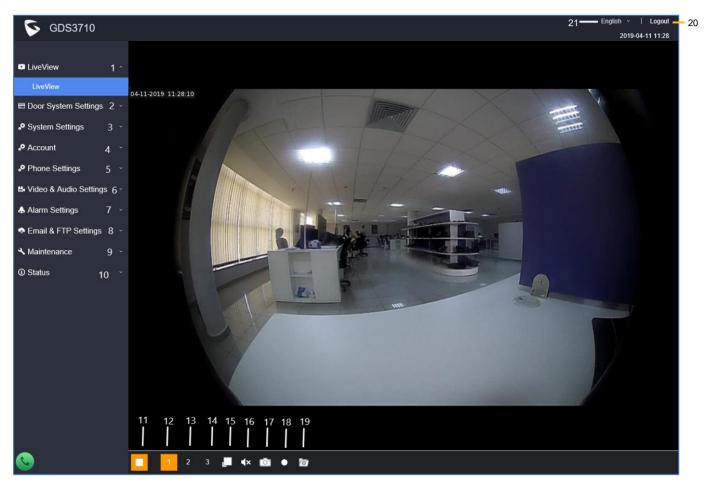


Figure 30: Home Page: Internet Explorer 11

Table 5: Home Page Descrip
----------------------------

Number	Fields	Description
1	LiveView	Access to live view stream page.
2	Door System Settings	Access to "Door System Settings" page.
3	System Settings	Access to "System Settings" page.
4	Account	Access to "Account" configuration page.
5	Phone Settings	Access to "Phone Settings" configuration page.





6	Video & Audio Settings	Access to "Video & Audio settings" page.	
7	Alarm Settings	Access to "Alarm settings" page.	
8	Email & FTP Settings	Access to "Email & FTP Settings" page.	
9	Maintenance	Access to "Maintenance" page.	
10	Status	Click to enter "Status" page.	
11	Play/Stop	Start/Stop the video stream in the web page. (Internet Explorer 11)	
12	Stream 1	Play the primary stream.	
13	Stream 2	Play the secondary stream.	
14	Stream 3	Play the third stream.	
15	Window size	Resize the window. (Internet Explorer 11)	
16	Audio	Click to mute / unmute the audio. (Internet Explorer 11)	
17	Snapshot	Click to take a snapshot. (Internet Explorer 11)	
18	Recording	Click to start recording. (Internet Explorer 11)	
19	File Path Saved	Click to access Record and Capture paths. (Internet Explorer 11)	
20	Logout	Logout from the web page.	
21	Language	Select the webpage language.	

# **GDS3710 Configuration & Language Page**

- Once the IP address of the GDS3710 is entered on the user browser, the login web page will pop up allowing user to configure the GDS3710 parameters.
- When clicking on the "Language" drop down, supported languages will be displayed as shown in Figure below. Click to select the related webpage display language.





S GRANDSTREAM	English ~
	English
	简体中文
Welcome to GDS3710	
Please enter Username	
Please enter Password	
Forgot Password ?	
Login	
Copyright © Grandstream Networks, Inc. 2019. All Rights Reserved.	

Figure 31: Switch Language Page

Note: Current firmware supports only English (default) and simplified Chinese.





# **GDS3710 SETTINGS**

# **Live View Page**

This page allows users to view the live video of the GDS3710 using popular browsers like Chrome or Firefox immediately without downloading and installing any plugins.

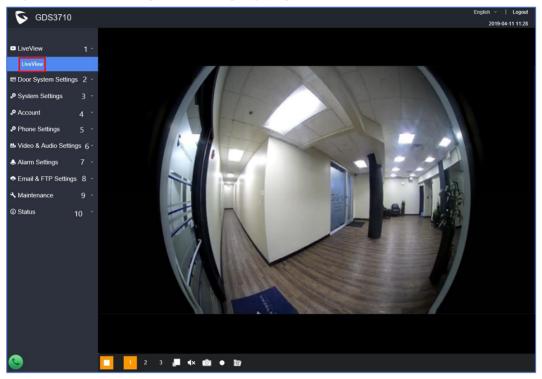


Figure 32: Live View Page: Google Chrome

Three streams are available:

- **Primary video stream:** 1920\*1080 resolution, recommended for continuous full HD recording (If used with GXV355X NVR).
- Secondary video stream: 640\*480 resolution, recommended for SIP/VoIP video calls (if used with GXV3240/GXV3275).
- **Third video stream:** 320\*240 resolution, recommended for smartphone or Tablet Apps (IP Cam Viewer for instance).

## **Live Snapshot**

Users can take view snapshots from GDS3710 live view via HTTP API, this can be used without installing the any browser plugin. Starting from firmware 1.0.3.34, users can deploy two methods to view snapshots depending on *MJPEG Authentication Mode*, which can be set under following path:

### Web UI → System Settings → Access Settings





	Access Settings		
LiveView ~	Web Access Mode	HTTP	
Door System Settings	Web Access Port	80	
System Settings ^			
Date & Time	MJPEG Authentication Mode	Challenge+Response	
	RTSP Port	Challenge+Response Basic	
Network Settings			
Access Settings	User Login Timeout(min)	5	
User Management	Maximum Number of Login Attempts	5	

Figure 33: MJPEG Authentication Mode

1) Challenge+Response MJPEG Authentication Mode:

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

- 1. In browser type in: http(s)://IP\_Address\_GDS:Port/jpeg/view.html
- 2. The browser will pop up the window above asking for credentials, user needs to enter admin credential.

GRANDSTREAM		English ×
	Welcome to GDS3710	
	Please enter the username	
	Please enter the password	
	Login	
	Copyright © Grandstream Networks, Inc. 2017. All Rights Reserved.	

Figure 34 : Snapshot admin credential

3. The browser will show one frame of the video (720p) as a snapshot.





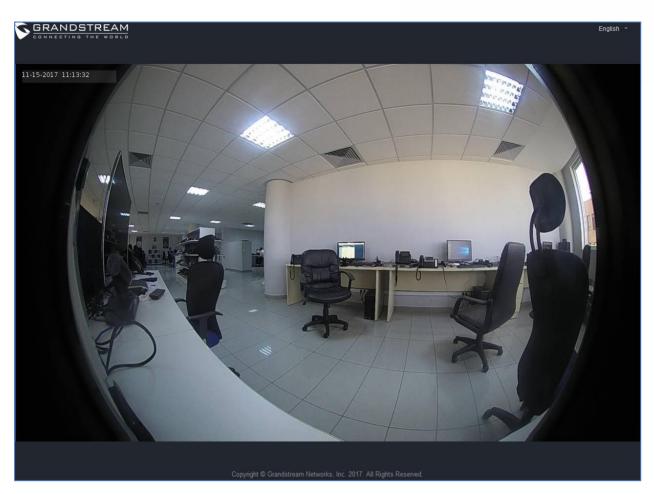


Figure 35 : Snapshot view using secured MJPEG authentication Mode

**Note**: This is supported on all browsers without installing any plugin and requires admin user authentication for more security.

## 2) 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\_GDS:Port/jpeg/view.html
- 2. The browser will show one frame of the video (720p) as a snapshot.







Figure 36: Snapshot view using Basic Authentication Mode

## **MJPEG Stream**

The GDS3710 supports MJPEG Stream live viewing via HTTP API commands, this can be used without installing the Live view browser plugin. Starting from firmware 1.0.3.34, users can deploy two methods to retrieve MJPEG stream depending on *MJPEG Authentication Mode*, which can be set under following path: Web UI  $\rightarrow$  System Settings  $\rightarrow$  Access Settings

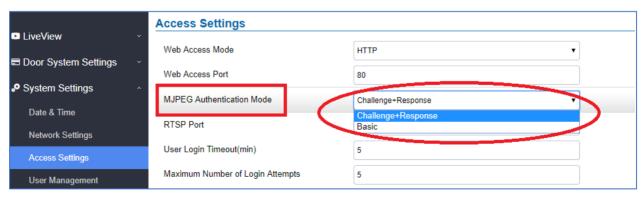


Figure 37: MJPEG Authentication Mode

1) Challenge+Response MJPEG Authentication Mode:





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

- 1. In browser type in: http(s)://IP\_Address\_GDS:Port/jpeg/mjpeg.html
- 2. The browser will pop up the window above asking for credentials, user needs to enter admin credential.

CONNECTING THE WORLD	Englis	h ×
	Welcome to GDS3710	
	Please enter the username	
	Please enter the password	
	Login	
	Copyright © Grandstream Networks, Inc. 2017. All Rights Reserved.	

Figure 38 : MJPEG view admin credential





3. The browser will show MJPEG stream (720p).

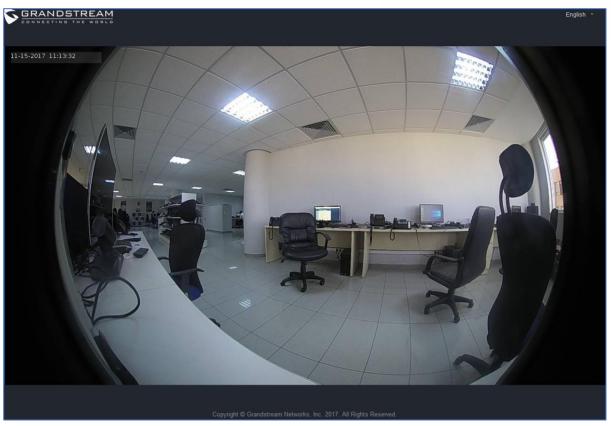


Figure 39 : MJPEG live view using secured MJPEG Authentication Mode

**Note**: This is supported on all browsers without installing any plugin and requires admin user authentication for more security.

### 2) 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\_GDS:Port/jpeg/mjpeg.html
- 2. The browser will show MJPEG stream (720p).





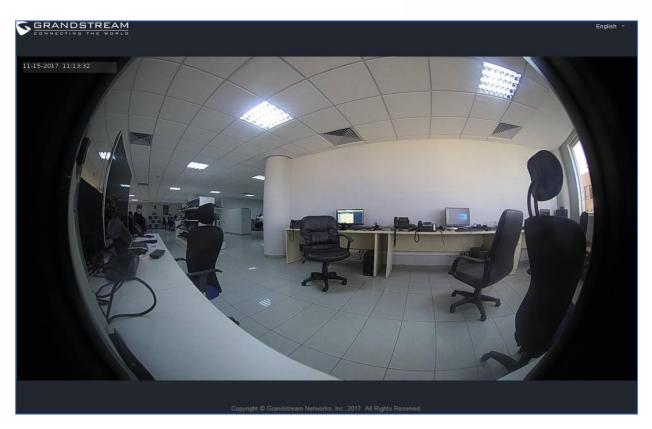


Figure 40: MJPEG view using Basic MJPEG Authentication Mode

**Note**: Similar command can be applied to open source application like **VLC MediaPlayer** to retrieve H.264 video stream with better quality: **rtsp://admin:password@IP\_GDS3710:Port/X** 

Where X=0,4,8 corresponded to 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> video stream (2<sup>nd</sup> recommended).

# **Door System Settings**

Users can configure system operations parameters, like input PIN for the door and manage users' settings.

## **Basic Settings**





5

GDS3710			English ~   Logout 2019-08-06 15:32
	Door System Settings		
veView	ALMOUT1 Feature	Alarm Output	
oor System Settings	ALMOUT1 Status	Normal Open	
Basic Settings	Delay before Unlock(s)	0	
Keep Door Open Card Management	Unlock Holding Time(s)	5	
Group	Minimum Interval of Swiping Card(ms)	300	
Schedule	Number of Snapshots when Door Opened	4	
Holiday	Snapshot when Door Opened	🕑 via FTP 📃 via Email	
ystem Settings ^	Snapshot when Doorbell Pressed	🔲 via FTP 📄 via Email	
ccount ^			
hone Settings ·	Call Mode	Virtual Number	
ideo & Audio Settings 🔗	Doorbell Call Out Account	Auto	
arm Settings	Doorbell Mode	Call Doorbell Number	
mail & FTP Settings	Door Bell Call Mode	Serial Hunting •	
aintenance ^	Number Called When Door Bell Pressed	192.168.5.150:5060,	في
tatus ~	Maximum Number of Dialed Digits	0	
-	No Key Input Timeout(s)	4	
	Press Doorbell Schedule	All Day 🔻	Edit Schedule
	Remote PIN to Open Door		
	Local PIN Type	Unified PIN •	
	Local PIN to Open Door		
	Local PIN to Open Door Schedule	All Day 🗸	Edit Schedule
	Enable DTMF Open Door		
	Enable Guest PIN		
	Disable Auto Answer		
	Enable Doorbell Button to Hang Up Call	<ul> <li>Image: A start of the start of</li></ul>	
	Disable Keypad (except the Doorbell Button)		
	Enable On Hook After Remote Door Opened		
	Enable HTTP API Remote Open Door		
	Disable Keypad SIP Number Dialing		
	Card Issuing Mode Setting		
	Enable Card Issuing Mode	Start	
	Card Issuing Mode Expired Timer(m)	5	
	Light Settings		, ,
	Light Settings		
	Enable Key Blue Light		
	Enable Background Light		
	Doorbell Blue Light On/Off Time Interval Setti	ngs	
	Enable Doorbell Blue Light		
	Keypad Blue Light On/Off Time Interval Settin	gs	
	Enable Keypad Blue Light		
	Card and PIN open door schedule configuration	on module	
	Central Mode		
	Key Tone Setting		
	Key Tone Type	Default	
	Wiegand Settings		
	Enable Wiegand Input		
	Wiegand Output	Disabled	
	🖺 Save		
	Copyright © Gra	andstream Networks, Inc. 2019. All Rights Reserved.	

Figure 41: Door System Settings Page





#### Table 6: Door System Settings

Table 6: Door System Settings		
ALMOUT1 Feature	<ul> <li>This option allows to choose to use Alarm_Out (COM1) interface for either</li> <li>as alarm out with 3<sup>rd</sup> party device, or to control a second door "Door 2"</li> <li>(the two functions are mutual exclusive).</li> <li>When option "<b>Open Door</b>" is selected, will enable GDS3710 to control the</li> <li>operation of two doors via RFID, local and remote PINs.</li> </ul>	
ALMOUT1 Status	Select Normal Open or Normal Close depending on the lock used.	
Delay before Unlock (s)	Device will open door after specified delay (in seconds) when user issuing the authorization.	
Unlock Holding Time (s)	Configures the lock holding time, in seconds (default value is 5 seconds). Device will hold the door unlocked for this specified duration. Range: 1-20 seconds.	
Minimum Interval of Swiping Card (ms)	Defines the interval in ms to swipe consecutive RFID cards. The range should be between 0ms and 2000ms.	
Number of Snapshots when Door Opened	Define number of snapshot to be sent by the GDS ( vie FTP or Email) Maximum up to 4 screenshots.	
Snapshot when Door Opened	User can choose to email the snapshot when door is opened without sending the snapshots via FTP to the FTP server.	
Snapshot when Doorbell Pressed	User can choose to email the snapshot when doorbell pressed without sending the snapshots via FTP to the FTP server.	
Call Mode	Chooses whether to make call to the SIP number or Virtual Number when dialing from the GDS3710 keypad.	
Doorbell Call Out Account	This option sets the account to be used to make call upon the doorbell trigger. If set to Auto, the GDS will use the first available account.	
Doorbell Mode	<ul> <li>Configures the action to be taken when the doorbell is pressed, three options are available:</li> <li>Call Doorbell Number: when Doorbell is pressed, a call will be made to the "Number Called When Door Bell Pressed"</li> <li>Control Doorbell Output (Digital Output 1): when Door Bell is pressed electronic lock for Output 1 is opened.</li> <li>Both of Above: When selected, both Call Doorbell Number and Control Doorbell Output options are enabled.</li> </ul>	





Door Bell Call Mode	<ul> <li>Select the ring strategy for the Numbers Called when pressing the Door Bell button to be either Serial or Parallel:</li> <li>Serial Hunting: the configured extensions and/or IP addresses will ring one after one by order.</li> <li>Parallel Hunting: The configured extensions and/or IP addresses will ring simultaneously (up to 4 simultaneous SIP calls).</li> </ul>
Number Called When Door Bell Pressed	<ul> <li>Configures SIP extension number (SIP Server mode), or IP address with port number (peering mode), to be called when the Door Bell is pressed:</li> <li>SIP Server mode: <ul> <li>The field can be configured to store multiple one or multiple SIP extensions, if configured with multiple extensions (ex: 1001, 1002, 1003), separated with "," the GDS3710 will ring one extension after the other in a Serial Hunting Mode (GDS will ring each extension by default 15 seconds, this can be changed on the Ring Timeout) or ring them simultaneously in Parallel Hunting Mode.</li> <li>When using UCM, users can also configure there a Ring Group extension (6400 for example) that will ring multiple extensions simultaneously, or one by one depending on the Ring Group ring strategy.</li> <li>If all phones are GXP21XX, the phone will stream the video frame by frame and users can open door either by pressing Remote_PIN# or by pressing Open Door button if already configured.</li> <li>If early medial is enabled on phone side, user can send the PIN code using the Open-Door button before answering the call (Of course users can open the door also after answering the call).</li> </ul> </li> <li>Peering mode: <ul> <li>User should configure multiple IP addresses of phones instead of SIP extensions, when Door Bell pressed the GDS3710 will ring the configured IP Addresses in Serial or Parallel Mode according to Doorbell Call Mode strategy.</li> <li>If early media is enabled, the GXV32XX will receive the video stream while it is ringing, and user can open door by pressing the Open-Door button if already configure the door also after answering the call the configured IP Addresses in Serial or Parallel Mode according to Doorbell Call Mode streategy.</li> </ul> </li> </ul>





	<ul> <li>GXP21XX phones receive the GDS3710 video using JPEG streaming this means that it will receive video if early media is enabled or disabled.</li> <li>Note: This field supports a Maximum of 256 characters.</li> </ul>
Maximum Number of Dialed Digits	Configure the maximum digits allowed to dial in the keypad. Once the configured condition satisfied, the device will send out the digit to call automatically without pressing #. Disabled if set to 0.
No Key Input Timeout(s)	Defines the timeout (in seconds) for no key entry. If no key is pressed after the timeout, the digits will be sent out without pressing #. The default value is 4 seconds. The valid range is from 1 to 15.
Press Doorbell Schedule	Configure a schedule for the Doorbell button, once configured, the doorbell with turn ON/OFF based on configured schedule. Default setting is "All Day".
Remote PIN to Open the Door	Configures PIN code stored in the GDS3710, remote SIP phone needs to input and match this PIN (the PIN is sent via DTMF while in call) so that the GDS3710 can open the door. <b>Note:</b> For enhanced security, when the call is initiated from GDS then only the numbers existing in "White List" will be able to use DTMF PIN to open door remotely.
Local PIN Type	<ul> <li>Three options are available: Private Card PIN, Unified PIN or Card and Private PIN.</li> <li>Private PIN: Means every member has a private PIN, the GDS will record who unlocked the door every time. Users need to enter the following sequence from the GDS3710 to open the door [*Virtual Number*Private PIN#].</li> <li><u>Notes:</u> <ol> <li>When Local PIN type is set to private PIN, users can also open the door by swiping their cards.</li> <li>If "Disable Keypad SIP Number Dialing" is checked, users will be able to open door using private PIN with following sequence [Private PIN#].</li> </ol> </li> <li>Note: Door can still be opened by Card and with the sequence [*Virtual Number*Private PIN#].</li> </ul>





	For more details and conditions, refer to [Disable Keypad SIP Number Dialing].
	• Unified PIN: Means all members share a same PIN to unlock the door. Users need to enter the following sequence from the GDS3710 keypad to open the door [*Local PIN to Open the Door#].
	• Card & Private PIN: Means every member needs to swipe his card and enter his private PIN to open the door using the following sequence [Swipe the card + * Private PIN#]
	Configures PIN stored in GDS3710, input locally this PIN on the GDS3710 keypad will unlock the door.
Local PIN to Open the	This feature needs <b>Private PIN</b> , means every member has a private PIN, the GDS will record who unlocked the door every time.
Door	Users need to enter the following sequence from the GDS3710 to open the door [* <b>Virtual Number*Private PIN#</b> ].
	<b>Note</b> : When local PIN type is set to private card PIN, users can also open the door by swiping their cards.
Local PIN to Open Door Schedule	Configure a schedule for the Local PIN to open the door. Once configured, the door opening ability using local PIN with turn ON/OFF based on configured schedule. Default setting is "All Day".
Enable DTMF Open Door	When enabled, remote SIP phones can open the door while in call by entering the remote PIN code configured (the PIN code is sent via DTMF). Default settings is disabled.
Enable Guest PIN	Enables password entry for guests.
Guest PIN	Configures the password that will be used by guests.
Guest PIN Start Time	Selects the start time when the Guest PIN start to take effect.
Guest PIN End Time	Selects the end time when the Guest PIN will stop working.
Disable Auto Answer	If checked, GDS3710 will not answer incoming calls automatically, users can press any key to answer the call. Default setting in unchecked.
Enable Doorbell Button to	If checked, Users can hang up an active call when pressing the doorbell
Hang up Call	button. Enabled by default.
Disable Keypad (except the Doorbell Button)	When checked the Keypad will be disabled, only Door Bell button can be pressed.
,	





Enable On Hook After	When checked calls will be disconnected automatically 5 seconds after
Remote Door Opened	the remote open door event.
Enable HTTP API Remote Open Door	Enabling this option allows to use HTTP API command to open the door remotely. Important note: We will not be responsible for any security problems resulting from opening the HTTP API remote function, this option is disabled by default and the user should enable it while knowing how to mitigate the risk.
Disable Keypad SIP Number Dialing	<ul> <li>When Keypad SIP number Dialing disabled, device will interpret each digit entry as private-password open door request after pressing #.</li> <li>Notes: <ul> <li>"Local PIN Type" should choose "Private PIN".</li> <li>Dial keypad to make SIP call will NOT work (except for doorbell button call).</li> <li>Private PIN must be <u>UNIQUE</u> among users, otherwise the door will still open but log will NOT tell who opened the door due to duplicated PIN and whoever user last matched in the database with the Private PIN will be shown in the log.</li> </ul> </li> </ul>
Enable Card Issuing Mode	Enables RFID card issuing/program into the GDS3710. When selected sweeping an RFID card into the GDS3710 will add card information into. [Card Management]
Card issuing State Expire Time(m)	Card issuing mode will be automatically disabled when timer reached (The range of value is $1 - 1440$ , in minutes).
Enable Key Blue Light	When checked, the blue light will be activated when pressing the GDS3710 Keys.
Enable Background Light	When checked, the background light will turn on once clicking the GDS3710 Keys.
Enable Doorbell Blue Light	When enabled, Doorbell LED will light based on the configured Start/End Time. For instance, this option can be used when GDS is deployed on dark environment, the GDS will be located easily using Doorbell LED.
Enable Keypad Blue Light	When enabled, Keypad LED (except for Doorbell LED) will light based on the configured Start/End Time. For instance, this option can be used when GDS is deployed on dark environment, the GDS will be located easily using Keypad LED.
Central Mode	If enabled, Group/Schedule/Holiday can only be synchronized from the Central (GDS Manager), local configuration will not be allowed.





	If disabled, only local configuration from GDS3710 is allowed.
	Configures the key tones for the GDS3710.
Key Tone Type	• <b>Default</b> : Beeps will be played when pressing the GDS3710 keys.
Rey lone type	• <b>DTMF</b> : Tones will be played when pressing the GDS3710 keys.
	• <b>Mute</b> : No sound will be played when pressing keys.
Enable Wiegand Input	This option needs to be enabled when GDS is connected to the wiegand.
	output device (RFID card reader for example)
Wiegand Output	This option is to be enabled when the GDS is the wiegand output device.
Wegana Output	(example: input device is a door controller)

**Notes:** Remote SIP phone needs password (digits 0-9 only, ended with # key) matching the configuration on the web page to open the door (via DTMF).

GDS3710 support RFID for multiple users to open door, therefore every user has its own PIN. For environment with 100 users and more, it's difficult for the GDS3710 to manage all these users and a separate PC or Server should be involved for such kind of management and monitoring.

In environments with more than 100 users the GDS3710, another possibility would be to set one unified Local PIN for opening the door for all the users.

## Using Alarm Out (COM 1) to Control a Second Door

Starting from firmware 1.0.5.2, user can now set Alarm\_Out (COM1) interface to control a second Door, in additional to the existing Locker/COM2 interface (controlling Door1).

This feature allows GDS3710 to control the operation of two doors via RFID, local and remote PINs.

For example, a 3<sup>rd</sup> party Wiegand Input device or GDS3710 can be installed at Door2 with related cable wired into the control GDS3710 installed at Door1. The Door1 and Door2 can be configured to be open by programmed RFID cards, PINs either separately or both.





	Door System Settings	
LiveView ~	ALMOUT1 Feature	Open Door 🔹
Door System Settings ^	ALMOUT1 Status	Normal Open
Basic Settings		
Keep Door Open	Control Options	🖉 Door 1 🛛 Ø Door 2
Card Management	Wiegand Control	Door 1      Door 2
Group	Door 1 Delay before Unlock(s)	0
Schedule	Door 2 Delay before Unlock(s)	0
Holiday	Door 1 Unlock Holding Time(s)	5
System Settings ~	Door 2 Unlock Holding Time(s)	5
P Account	Minimum Interval of Swiping Card(ms)	300
Phone Settings	Number of Snapshots when Door Opened	4
🖴 Video & Audio Settings 🛛 🗸	Snapshot when Door Opened	🕑 via FTP 🔄 via Email
Alarm Settings	Snapshot when Doorbell Pressed	📄 via FTP 📄 via Email

Figure 42: Alarm\_Out1 Feature

#### • Interface for Door Control (which Door can be OPEN):

If Alarm\_Out (COM1) interface is set to control Door 2 opening, "ALMOUT1 Status" can be configured by choosing "Normal Open" or "Normal Close" based on the strike used.

Unlike default COM2 which is designed for strike control and having three connecting sockets, the COM1 only has two connecting sockets. Therefore correct lock mode has to be configured to make the strike working as expected.

For above example, the GDS3710 is configured to control Door1 (wiring to COM2 interface); the 3<sup>rd</sup> party Wiegand Input is set to control Door2 (wiring to COM1 interface).

In case of a power loss then the DOOR STATUS when power is off will be depending on the following situations:

- COM2 has three wiring PINs, corresponding to NO or NC accordingly. Therefor when connecting NC2 and COM2 (Fail Safe) then strike will open when power is lost and when using a NO2 strike (connecting COM2 and NO2) then door is "locked" when power is lost (Fail Secure).
- COM1 (ALMOUT1) has only two PIN, and NO ONLY. If the connected strike/lock is a NO strike, this means ALMOUT1 Status should be set to "Normal Open" then door will be closed when power is lost, while if the strike connected is NC strike, and ALMOUT1 Status is set to "Normal Close" then door will be open when power is lost.





#### Universal PIN for Operation of Doors:

LiveView ~	Doorbell Mode	Call Doorbell Number	]
Door System Settings ^	Door Bell Call Mode	Serial Hunting •	]
Basic Settings	Number Called When Door Bell Pressed	3002,	<i>د</i>
Keep Door Open	Maximum Number of Dialed Digits	0	]
Card Management	No Key Input Timeout(s)	4	]
Group	Press Doorbell Schedule	All Day 🔻	Edit Schedule
Schedule	Remote PIN to Open Door 1		]
Holiday	Remote PIN to Open Door 2		]
System Settings	Local PIN Type	Unified PIN T	]
P Account	Unified PIN Open Door Options	✓ Door 1 ✓ Door 2	
Phone Settings	Local PIN to Open Door		]
🖴 Video & Audio Settings 🛛 🗸	Local PIN to Open Door Schedule	All Day	Edit Schedule

#### Figure 43: Universal Local PIN

If Unified PIN (Universal PIN) is configured to open door, then which door can be controlled by the PIN is configured in the UI once "Unified PIN" selected.

For example, like above screenshot, if this universal PIN is set to open both Door1 and Door2, but due to previous "Control Option" set to open Door1, and "Wiegand Control" set to open Door2, therefore the final result will be the INTERSECT result of both sets with condition qualified.

#### • Remote PIN to Operation of Doors:

For remote PIN to open door, the PIN can be configured in example down below.

The PIN can be different for Door1 and Door2 and has to be configured correctly in related IP Phone which will be used to operate "One Key Open Door".

If BOTH doors need to be opened at the same time, then both Door1 and Doo2 has to be configured with exactly SAME password or PIN as DTMF open door.

**Note:** For enhanced security, When call is initiated from GDS then only the numbers existing in "Number Called When Door Bell Pressed", "Account White Lists" or "Card Management" will be able to use DTMF PIN to open door remotely.





LiveView ~	Doorbell Mode	Call Doorbell Number	,
Door System Settings	Door Bell Call Mode	Serial Hunting	•
	Number Called When Door Bell Pressed	3002,	C.
Basic Settings Keep Door Open	Maximum Number of Dialed Digits	0	
Card Management	No Key Input Timeout(s)	4	
Group	Press Doorbell Schedule	All Day	Edit Schedule
Schedule	Remote PIN to Open Door 1	[ •••••	Ĩ.
Holiday	Remote PIN to Open Door 2		Ĩ
System Settings	Local PIN Type	Unified PIN	·
P Account	Unified PIN Open Door Options	✓ Door 1 ✓ Door 2	
Phone Settings	Local PIN to Open Door	<b>·····</b>	
🛎 Video & Audio Settings 🛛 🐇	Local PIN to Open Door Schedule	All Day	Edit Schedule
Alarm Settings	Enable DTMF Open Door		_

Figure 44: Remote PIN to Open Door





#### • Private PIN or Card & Private PIN:

		Add Card Info	
LiveView		sername*	John Snow
Door System Settings	Pr	rivate PIN	
Basic Settings	Ge	ender	Male
Keep Door Open	ID	) Number	100
Card Management Group	Ca	ard Number*	12345678
Schedule	Va	alid Start Date	1970-01-01
Holiday	Va	alid End Date	2099-12-31
System Settings	↓ Vi	irtual Number*	1
	. Si	ip Number	1000
Phone Settings	Ç Ca	all Out Account	Account 3
Video & Audio Settings	Ce	ellphone	33457845123
		roup	Disabled •
Alarm Settings		chedule	Disabled
Email & FTP Settings	Ri	ight of Card and Private PIN	Door 1 🖉 Door 2
A Maintenance	Er	nable	Image: A state of the state
<ol> <li>Status</li> </ol>	<ul> <li>Note</li> </ul>	e: Open Door will not work by PIN if password is	_

#### Figure 45: Right of Card and Private PIN

If using RFID card or Private PIN to open door, then which door can be opened by the RFID card or Private PIN is configured via "Card Management", see above screenshot.

### Notes:

For all the settings, the final result of which door can be opened is the <u>LOGIC INTERSECT OPERATON</u> of ALL the sets of condition qualified.

Please refer to our Open Door Flow chart for better understanding on how to configure and control 2 Doors operation: <u>http://firmware.grandstream.com/GDS3710\_opendoors\_logic.pdf</u>





#### **Keep Door Open**

This feature allows users to set either an immediate or scheduled open door, this will allow usage scene like schools or similar private or public places where the door needs to keep open at specific time window and closed otherwise. Also handy for buildings or properties where a seminar needs to be hosted for some period or lunch breaks in a factory or company where the door keeps open and no access log required then back to locked with authorized entry after that, by default it's disabled.

There are two modes under this section:

#### 1- Immediate Open Door (One Time Only Action)

Keep Door Open	Immediate Open Door	•
Interval of Keep Door Open(min)	5	

#### Figure 46: Immediate Open Door

#### Table 7: Immediate Open-Door Table

Keep Door Open	Select the Keep Door Open mode.								
Interval of Keep Door	Set the amount of time in minutes where the door will keep opened. Click								
Open (min)	Save to open door immediately.								

**Note:** When Alarm OUT 1 is set to Open Door then this option would be available separately for each door.





## 2- Schedule Open Door (Repeated Action)

Keep Door Open				S	chedu	ile O	pen	Door										•						
Valid Schedule Start Time				20	18-0	6-19	00:0	00:00										2						
Valid Schedule End Time				20	18-0	6-19	00:3	33:00										Ð						
chedule																								
🖉 Edit																								
		0	1	2	3	4 {	5	6 7	7	8	9	10 1	11 1	2 1	3 1	4 1	5 16	6 17	18	19	20	21	22	23
	Sun																							
	Mon																							
	Tue																							
	Wed																							
	Thu																							
	Fri																							
	Sat																							

### Figure 47: Schedule Open Door

#### Table 8: Schedule Keep Door Open

Keep Door Open	Select the Keep Door Open mode (Schedule Open Door on this case).
Valid Schedule Start Time	Selects the start time when the door will be opened.
Valid Schedule End Time	Selects the end time when the door will be locked.

Click on Edit schedule to select which periods for each day the door will remain open, as shown on below screenshot.





Modify Schedule			×
Sun	Period1		
Mon	Period2		
Tue	Period3		
Wed			
Thu	Period4	00 • : 00 • - 00 • : 00 •	
Fri	Period5	00 • : 00 • : 00 •	
Sat	Period6	$\boxed{00  \textbf{v}} : \boxed{00  \textbf{v}} - \boxed{00  \textbf{v}} : \boxed{00  \textbf{v}}$	
	Period7	00 • : 00 • - 00 • : 00 •	
	Period8	$\boxed{00  \textbf{v}} : \boxed{00  \textbf{v}} - \boxed{00  \textbf{v}} : \boxed{00  \textbf{v}}$	
Copy 📄 Sun 🕑 Mor	n 🕑 Tue 🕑 Wed	d 🖌 Thu 🖌 Fri 📄 Sat 📄 Select All	
	Save	Cancel	

Figure 48: Edit Schedule

## **Emergency PIN**

	Keep Door Open				
LiveView	×				
Door System Settings	Keep Door Open	Disabled •			
Basic Settings	Emergency PIN to Disable Keep Door Open				
Keep Door Open					
Card Management					
Group					
Schedule					
Holiday					

Figure 49: Keep Door Open – Emergency PIN

When Keep Door Open option is set to "Disabled", user is offered the possibility to force closing the door from the device keypad by dialing the Emergency PIN set to be used.

## Example:

- 1. Fill in the password in Emergency PIN to Disable Keep Door Open, in our example: 2018
- 2. Open the door using either Immediate/Scheduled Keep Door open
- 3. enter the following Emergency Password sequence: \*2018#
- 4. After entering the sequence \*Emergency PIN#, the GDS will close the door, and when entering the web GUI, the Keep Door Open section is switched automatically to "Disabled" Option.

**Note:** When ALMOUT1 Feature is set to Open Door then separated Keep Door Open features would be available on this page for each door.





## **Card Management**

This page allows users to add information about RFID cards, two options are possible either add RFID cards manually or automatically.

Card Management														
2	<b>b</b> Ad	ld User	C Reload Da	ata 🕹 D	elete Data	Usernam	ne* <del>*</del>	c	۶.)			🖆 Import Data	🗳 Expor	t Data 🔻
	No.l	Jsername <sup>*</sup>	*Card Number*Vi	rtual Number	*Sip Number	Account	Cellphone	ID Number(	Gender	Group	Schedule \	/alid Start Date\	alid End Date	e Edit 📕
0	1	John	33656478	1	1000 📞	Auto	33457845123	412	Male	Disabled	Disabled	1970-01-01	2099-12-31	0
0	2	Robert	124578	2	2000 📞	Account 1	212682522210	413	Male	Disabled	Disabled	1970-01-01	2099-12-31	0

#### Figure 50: Card Management

#### Notes:

- The GDS3710 can add up to 2000 user cards.
- Press configuration file, information and data stored on the GDS3710.
- Users can export and upload .CSV and .GS files:
- ".gs" format is encrypted database file, it can NOT be edited and the password or PIN inside also can NOT be viewed.
- ".csv" format is NOT encrypted therefore all the content are viewable and editable.
- System Administrator should be VERY careful when export database in such file format, as convenience is provided in the cost of security. It is STRONLY suggested system administrator to set PASSWORD to Safe Guard the exported CSV format database file when edit or revise the file using Excel.

### Add Users Manually

To add users, click on Add User, the fo

, the following page will pop up.





	← Modify Card Info						
LiveView ~	K Previous Record	1 1	Next Record				
Door System Settings ^	Username*	John					
Basic Settings	Private PIN	·····					
Keep Door Open	Gender	Male					
Card Management	ID Number	412					
Group							
Schedule	Card Number*	33656478					
Holiday	Valid Start Date	1970-01-01					
System Settings ^	Valid End Date	2099-12-31					
P Account ~	Virtual Number*	1					
Phone Settings	Sip Number	1000					
🖴 Video & Audio Settings 🛛 🗸	Call Out Account	Auto					
Alarm Settings	Cellphone	33457845123					
Email & FTP Settings	Group	Disabled					
▲ Maintenance	Schedule	Disabled					
③ Status ~	Right of Card and Private PIN	✓ Door 1 Door 2					
<u> </u>	Enable						
	Note: Open Door will not work by PIN if password is blank.						

Figure 51: Card Info

Table	9:	Card	Info

Username	Configures the username to identify the user.
Private PIN	Specifies a specific password to unlock the door.
Gender	Selects a gender, either Male or Female.
ID Number	Enters an ID number (This number is set by the admin to identify each user uniquely).
Card Number	Enters the RFID Card number (this is the number written on the RFID card.
Card Number	When "card issuing mode" is enabled, this filed will be added automatically.
Valid Start Date	Configures the start date of validity of the RFID card.
Valid End Date	Configures the End date of validity of the RFID card.
	When dialing directly from the keypad, the GDS accept only Virtual number
Virtual Number	to identify a user, once the Virtual number is typed followed by <b>#</b> key, the
	SIP Number will be dialed.
	Configures the SIP Number which is mapped with virtual number. Once the
	virtual number is dialed the GDS3710 will send an INVITE to the SIP
SIP Number	Number.
	Note: The SIP Number can be configured with an extension/phone number
	or IP address. Example: 192.168.5.124





Call Out Account	Select the Account from which the GDS3710 will call the User SIP Number when dialing from the keypad. Default is Auto.
Cellphone	Configures cellphone of the user.
Group	Specifies to which group the user will be added.
Schedule	Specifies the schedule that will be assigned to the user.
Right of Card and Private PIN	Select the doors that can be accessed by user.
Enable	Enable/Disable the RFID card.

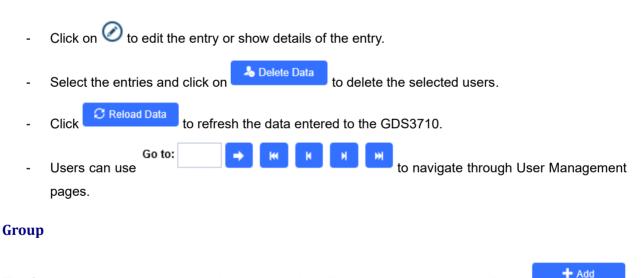
Note: - Group overrides Schedule.

- If Schedule is set as "Disabled" the RFID Card will be accepted when swiped All Day.

## Add Users Automatically

If *[Enable Card Issuing Mode]* is checked, the GDS3710 keypad will start blinking and once an RFID card is swiped, data stored on the card will be added into the GDS3710 card management page, user can still edit the entry added automatically by modifying some fields.

## **Users Operation**



The Group page permits to manage the groups which will contains multiple users, click on

to create new groups or  $\oslash$  to edit existing groups or  $\square$  to delete the group.

**Note**: Users can create up to 50 groups.





Add Group			×
Group Name			
Schedule	Disabled		
	💾 Save	× Cancel	

Figure 52: Add Group

Table 10: Add Grou	p
--------------------	---

Group Name	Configures the name to identify the group.
Schedule	Specifies the schedule that will be used by the group.

The following screenshots display the list of the created groups.

Group Name	Schedule	Edit	Delete
Support	schedule1	$\bigotimes$	Ô
Sales	schedule2	$\oslash$	â
Documentation	schedule3	$\oslash$	â
	Support Sales	Support schedule1 Sales schedule2	Support schedule1 O

#### Figure 53: Groups List

# Schedule

The Schedule page allows to manage schedule time frames which will be assigned to the users for door system usage. Out of the configured time intervals, GDS3710 will not allow users to access.

Click on  $\oslash$  to edit a schedule or  $\bigodot$  for schedule details.

Note: The GDS3710 supports up to 10 schedules.





Modify Schedule					×
Schedule Name	schedule1				
Holiday Mode	Disabled		~		
Sun	Period1	08 🗸 : 00 🗸 1	17 🕶 : 00 🛩		
Mon	Period2	00 🗸 : 00 🗸 0	00 🗸 : 00 🗸		
Tue	Period3	00 🗸 : 00 🗸 0	00 🗸 : 00 🖍		
Wed	Period4	00 🗸 : 00 🗸 0	00 🗸 : 00 🖍		
Fri	Period5	00 🗸 : 00 🗸 0	00 🗸 : 00 🖍		
Sat	Period6	00 🗸 : 00 🗸 0	00 - : 00 -		
Holiday	Period7	00 🗸 : 00 🗸 0	00 - : 00 -		
	Period8	00 🗸 : 00 🗸 0	00 - : 00 -		
Copy 🗹 Sun 🗌 Mon 📄 Tue 📄 Wed 📄 Thu 📄 Fri 📄 Sat 📄 Holiday 📄 Select All					
		Save	Cancel		

Figure 54: Edit Schedule Time

# Holiday

The Holiday page allows to manage holidays which will be assigned to the users for door system usage.

Click on  $\oslash$  to edit the holidays or  $\bigcirc$  for holiday details.

Schedule Name	holic	lay1						
Duration1						-		•
	-	s s	ер	201	7	•	₩	
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	
	27	28	29	30	31	1	2	
	3	4	5	6	7	8	9	
	10	11	12	13	14	15		
	17	18	19	20	21		23	
	24	25	26	27	28		30	
	1	2	3	4	5		7	
				To	day	0	к	
	-							
			Sa	ve				Cancel

Figure 55: Edit Holiday Time





# **System Settings**

This page allows users to configure date and time, network settings as well as access method to the GDS3710 and password for accessing the Web GUI.

# **Date & Time Settings**

This page allows users to adjust system date and time of the GDS3710.

	Date & Time	
LiveView ✓	System Time	2019-08-08 11:09:05 Sync PC
Door System Settings ~	Allow DHCP Option 42 to override NTP server	
System Settings	Time Zone	GMT (Dublin, Lisbon, London, Reykjavik)
Date & Time	Enable Daylight Saving Time	
Network Settings	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Access Settings	Start Time	Jan V First V Sunday V 00:00 V
User Management	End Time	Jan V First V Sunday V 00:00 V
Account ^	Enable NTP	×
Phone Settings	NTP Server	pool.ntp.org
uideo & Audio Settings ∽	Update Interval(m)	1440

#### Figure 56: Date & Time Page

#### Table 11: Date & Time

System Time	Displays the current system time.
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's set up on the LAN. The default setting is "Yes".
Sync PC	Clicks to synchronize current time with the computer.
Time Zone	Selects from drop down menu the preferred time zone.
Enable Daylight Saving Time	Enables Daylight Saving Time.
Start time	Selects the Start time of DST.
End Time	Selects DST end time.
Enable NTP	Enables NTP to synchronize device time.
NTP Server	Configures the domain name of NTP server.
Update Interval	Configures the Interval (in minutes) to retrieve updates from the NTP server.





# **Network Settings**

	Basic Settings	
LiveView	IP Address Config	
E Door System Settings	IP Address Mode	DHCP      Static IP
System Settings	IP Address	
Date & Time		192 168 5 112
Network Settings	Subnet Mask	255 . 255 . 0
Access Settings	Gateway	192 · 168 · 5 · 1
User Management	DNS Config	
Account	DNS Address Type	Dynamic DNS      Static DNS
Phone Settings	DNS Server 1	8 8 8
💾 Video & Audio Settings	DNS Server 2	8.8.4.4
Alarm Settings	LLDP Config	
🗢 Email & FTP Settings	Enable LLDP	
A Maintenance		Disable 🖲 Enable
③ Status	Layer 2 QoS 802.1Q/VLAN Tag	0
	Layer 2 QoS 802.1p Priority Value	0

This page allows users to set either a static or DHCP IP address to access the GDS3710.

Figure 57: Basic Settings Page

#### Table 12: Basic Settings

IP Address Mode	Selects DHCP or Static IP. Default DHCP. (Static recommended)
IP Address	Configures the Static IP of the GDS3710.
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	Assigns the VLAN Tag of the Layer 2 QoS packets.
802.1Q/VLAN Tag	Default value is 0.
Layer 2 QoS 802.1p	Assigns the priority value of the Layer2 QoS packets.
Priority Value	Default value is 0.

Notes:





- If the GDS3710 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.
- If the default TCP port 80 is changed to port "A", then RTSP port should be "2000+A" (changed from default TCP 554). Both TCP port "A" and "2000+A" should be configured for port forwarding in the router. For example, of the HTTP port is changed to 8088, the RTSP port should be 10088, both TCP ports 8088 and 10088 should be configured for port forwarding to have remote GDS3710 access: 8088 for web portal, and 10088 for video streaming.

## **Access Settings**

This page configures the GDS3710 access control parameters.

S GDS3710							
□ LiveView 、	Access Settings						
	Web Access Mode	HTTPS •					
Door System Settings ^	Web Access Port	443					
System Settings ^	MJPEG Authentication Mode	Challenge+Response					
Date & Time							
Network Settings	RTSP Port	554					
Access Settings	User Login Timeout(min)	5					
User Management	Maximum Number of Login Attempts	5					
Account ~	Locking Time of Login Error (m)	5					
₀• Phone Settings ∽	Disable Web Access						
	Enable UPnP Discovery						
🖶 Video & Audio Settings 🗠	Enable Anonymous LiveView						
Alarm Settings	Enable SSH						
Email & FTP Settings	SSH Port						
🔧 Maintenance 🔹 🗸		22					
① Status ~	GDSManager Configuration Password						

#### Figure 58: Access Settings Page

Table 13: Access Settings

Web Access Mode	Selects the access mode to the webGUI either HTTP or HTTPS.
Web Access Port	Specifies the TCP port for Web Access, default 443.





MJPEG Authentication Mode	<ul> <li>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.</li> <li>If enabled, user can send HTTP API with correct credentials to retrieve MJPEG video stream or JPEG snapshot from GDS3710.</li> <li>Notes:</li> <li>1- The MJPEG stream can be retrieved via the following URL</li> <li>HTML based →</li> <li>http(s)://admin:password@IP_GDS3710:Port/jpeg/mjpeg.html</li> <li>Stream → http(s)://admin:password@ip:port/jpeg/stream</li> <li>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 [Retrieving Video Streams]</li> </ul>		
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 GDS3710 will logout from the Web GUI, range is between 3 and 60.		
Maximum Number of Login Attempts	Specifies the allowed login times error limit, if the unsuccessful login attempts exceed this value, the GDS3710 webGUI will be locked for the time specified in Login Error Lock Time.		
Locking Time of Login Error (m)	Specifies how long the GDS3710 is locked before a new login attempt is allowed.		
Disable Web Access	<ul> <li>Allow or deny the web access to the GDS3710. (HTTP API do not take effect when this option is enabled).</li> <li>Note: If both WebUI and SSH are disabled, GDS3710 will get blocked and not be able to be accessed. Only two ways to get it back: <ol> <li>Re-provisioned by ITSP or Service Provider (by adjusting the related parameters)</li> </ol> </li> <li>Hard Reset (GDS3710 has to be offline and uninstalled to perform this hard reset).</li> </ul>		
Enable UPnP Discovery	UPnP (or mDNS) function for local discovery. Default setting is enabled.		
Enable Anonymous LiveView	<ol> <li>When enabled, user can display the camera stream from GDS without admin credentials using the following URL scheme: <u>http(s)://GDS3710_IP:port/videoview.html</u></li> <li>User can also retrieve a real-time snapshot without admin credentials using the following URL: <u>http(s)://IP:port/anonymous/snapshot/view.html</u></li> </ol>		





	Or with:	
	https://IP_GDS3710:Port/anonymous/snapshot/view.jpg	
	<ol> <li>To retrieve video stream via RTSP, users can use the following format: rtsp://IP _GDS3710:Port/X where X=0,4,8 for 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> streams respectively.</li> </ol>	
Enable SSH	Allows SSH access for remote secured configuration purposes (restart,	
	upgrade, provision)	
SSH Port	Specifies the SSH port. Default setting is 22.	
	User can set in this field a custom admin password instead of using	
GDSManager	GDS3710 webUI administrator's credentials, and this custom admin	
Configuration Password	password will be the one used when adding the GDS3710 unit to	
	GDSManager database.	

## **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.

	User Management					
LiveView ~	Password Recovery Email is not configured. Please input Password Recovery Email address and configure a valid SMTP service in Email Settin					
Door System Settings ~	Change Password					
System Settings ^						
, ,	Old Password					
Date & Time	New Password					
Network Settings	Confirm New Password					
Access Settings						
User Management	Change Recover Email					
P Account ~	Password Recover Email Address Email Settings					

#### Figure 59: User Management Page

#### Table 14: User Management

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	This option is highly recommended, as if the password is lost, you can
Email Address	recover it on the configured Email address.
	Note: Make sure to configure SMTP Email Settings under "Email Settings"

#### 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**  $\rightarrow$  **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 60: Password Recovery Email

# Account

Starting from version 1.0.5.6, the GDS3710 supports for 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:

S GDS3710			English ~   Logo 2019-08-06 15::
	Account 1		2010 00 00 13.
LiveView	SIP Basic Settings		
Door System Settings	Account Active	•	
System Settings	×		
Account	Account Name	3001	
Account 1	SIP Server	192.168.5.80	
Account 2	Outbound Proxy		
Account 3	Backup Outbound Proxy		
Account 4	DNS Mode	A Record	
Phone Settings	SIP User ID	3001	
Video & Audio Settings	Authentication ID	3001	
Alarm Settings	Password		
Email & FTP Settings	TEL URI	Disabled	T
Maintenance	SIP Advanced Settings		
Status	Registration Expiration(m)	60	
Status	Re-register before Expiration(s)	6400	
	Local SIP Port	5060	
	SIP Transport	UDP	•
	Stream	Stream 1	•
	Enable DTMF	RFC2833 SIP INFO	
	DTMF Payload Type	101	
	Unregister On Reboot	<b>v</b>	
<b>)</b>	NAT Traversal		T
	Enable SRTP		•
	Special Feature		•
	Outbound Proxy Mode		•
	Enable RTCP		
			•
	H.264 Payload Type	99	
	Vocoder Settings		
	Preferred Vocoder 1	PCMU	
	Preferred Vocoder 2	PCMU	•
	Preferred Vocoder 3	PCMU	•
	Preferred Vocoder 4	PCMU	T
	Voice Frames Per TX	2	
	Save		

Figure 61: SIP Account Settings Page

Table 15: SIP Account Basic & Advanced Settings

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
SIP Server	local IPPBX.





Outbound Proxy	Configures the IP address or the domain name of the outbound proxy, media gateway, or session border controller. It's used by the GDS 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. <b>Note:</b> 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. <b>Note:</b> 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.
Re-register before Expiration (s)	Specifies the time frequency (in seconds) that the phone sends reregistration 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. Default settings is UDP.
Stream	Select the Video stream to be used by the GDS3710 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:





	<ul> <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>
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 GDS reboots. The SIP REGISTER message will contain "Expires: 0" to unbind the connection.
NAT Traversal	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 GDS 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 GDS 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.
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 GDS settings to meet different vendors' server requirements. Users can choose from Standard or Broadsoft or Telefonica/Spain. The default setting is "Standard".
Outbound Proxy Mode	<ul> <li>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.</li> <li>Always sent to: SIP messages will always be sent to Outbound proxy.</li> <li>Not in route: remove the Route header from SIP requests.</li> </ul>
Enable RTCP	This option allows 3rd party Service Provider or Cloud Solution to monitor the operation status of the GDS3710 by using related SIP Calls. By default, it's disabled. Users can choose either RTCP or RTCP-XR.





	The H.264 payload type can now be configured to be compatible with 3rd				
H.264 Payload Type	party video phones, as well as other advanced SIP settings, to easy system				
	integration process. Default is 99.				
Vocoder Settings					
Preferred Vocoder	Select multiple audio codecs by priority order (lowest is the highest priority).				
	Supported codecs are: PCMU/PCMA/G.722 and G.729A/B.				
	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				
Voice Frame Per TX	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.				
	The default setting is 2.				
	Range is from 1-64.				

# **Phone Settings**

The phone settings allow users to configure the GDS3710 phone settings and the White list for all the SIP accounts.

# **Phone Settings**

This page allows users to configure the GDS3710 phone settings.



5	C	3	F	2	4	1	1		D	5	5	Г	R	E	/	4	Ν	1
	C		N	Ν	Ε	C	т	I	Ν	G	т	н	Е	W		R	L	D

	Phone Settings	
► LiveView	STUN Server	
Door System Settings	•	
System Settings	Local RTP Port	5004
P Account	Use Random Port	
	Auto On-Hook Timer(s)	300
Phone Settings	Ringing Timeout(s)	15
Phone Settings		
Account 1 White List	SIP TLS Certificate	
Account 2 White List		
Account 3 White List		
Account 4 White List	SIP TLS Private Key	
🖴 Video & Audio Settings	U	
Alarm Settings	SIP TLS Private Key Password	
Ŭ	Enable Direct IP Call	✓
Email & FTP Settings	Enable two-way SIP Calling	
A Maintenance	SIP Proxy Compatibility Mode	
<ol> <li>Status</li> </ol>	SIP Packetization Compatibility Mode	
	Enable Multi-channel Call Mode	
	Allow Reset Via SIP NOTIFY	

# Figure 62: Phone Settings Page

### Table 16: Phone Settings

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 GDS 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.
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 GDS will hang up the call. The value is in the range of $0s - 90s$ . By default; it is "30" seconds.
SIP TLS Certificate	Copy/Paste 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.
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 GDS will have in SDP "packetization-mode = 0". This is required when GDS 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). The first call the blue LED light will light up keypad digit "1", 2nd call will light up keypad digit "2", and so on. On hold call will have related digit blinking while active call will have the digit blue LED solid light up. Call can be switched by pressing the blinking digits.
Allow Reset Via SIP NOTIFY	<ul> <li>Allows to factory reset the devices directly through SIP Notify.</li> <li>If "Allow Reset Via SIP NOTIFY" is "check", then once the GDS3710 receives the SIP NOTIFY from the SIP server with Event: reset, the GDS3710 will perform a factory reset after authentication.</li> <li>This authentication can be either with: <ul> <li>The admin password if no SIP account is configured on the GDS3710.</li> <li>The SIP User ID and Password credentials of the SIP account if configured on the GDS3710.</li> </ul> </li> <li>Default is unchecked (disabled).</li> </ul>

# 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 GDS3710. (the call will be automatically answered when calling from a phone set on the white list), the user can configure up to 30 white phone numbers per SIP account.





	Account 1 White List		
► LiveView ~	Enable White Number List		
Door System Settings ^	Phone Number 1	3004	e
System Settings	Phone Number 2	10.10.1.12:5064	L.
Account ^	Phone Number 3		L.
Phone Settings	Phone Number 4		S.
Phone Settings	Phone Number 5		¢.
Account 1 White List	Phone Number 6		¢.
Account 2 White List	Phone Number 7		د. د
Account 3 White List	Phone Number 8		L.
Account 4 White List			

#### Figure 63: White List Page

The table below gives a brief overview of the options:

Table 17: White List					
Enable White Number List	Enables the White List feature.				
Phone Number 1 -30	Adds a new phone number to the white list.				

Note: All whitelisted numbers can open door remotely using PIN Code when calling GDS.

# **Click-To-Dial**

The GDS3710 allows users to manage their calls using the Click to Dial feature which permits to initiate calls using the Web GUI by pressing the Click to dial button to access the call menu as displayed on the following screenshot.

Account	:				
Auto		•			
Dial Number					
	Idle				
	📞 Dial				
S					

Figure 64 : Click-To-Dial





Note: Only the whitelisted numbers can open door remotely using PIN Code when calling GDS.

# 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**

	Video Settings		
LiveView ~	Stream 1		
E Door System Settings			
System Settings	Preferred Video Codec	H264 <b>v</b>	
• Account	Profile	Main Profile	
Phone Settings	Resolution	1920*1080(16:9) <b>v</b>	
udeo & Audio Settings	Bit Rate(kbps)	4096 🔻	
Video Settings	Frame Rate(fps)	30 •	
OSD Settings	Bit Rate Control	CBR (Constant Bit Rate)	
CMOS Settings	Image Quality	Normal	
Audio Settings	I-frame Interval	80	
Privacy Masks	Stream 2		
Alarm Settings	Preferred Video Codec	H264 V	
💠 Email & FTP Settings 🗸 🗸	Profile	Main Profile	
🔧 Maintenance	Resolution	1280*720(16:9)	
③ Status ^	Bit Rate(kbps)	512 •	
	Frame Rate(fps)	25 🔹	
	Bit Rate Control	CBR (Constant Bit Rate)	
	Image Quality	Normal	
	I-frame Interval	80	
	Stream 3		
	Preferred Video Codec	H264 <b>•</b>	
	Profile	Main Profile	
	Resolution	320*240(4:3)	
<u></u>	Lave Save		

Figure 65: Video Settings Page





#### Table 18: Video Settings

	Table To. Video Settings
Preferred Video Codec (Stream1)	Selects the videos codecs, the codecs supported are H.264 and MJPEG supported. Default setting is H.264.
Profile	Selects the H.264 profile. Three profiles are available: Baseline, Main Profile and High Profile. Default setting is "Main Profile".
Resolution	Specifies the resolution in pixels used at video image, 1080p or 720p.
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).
Preferred Video Codec(Stream2)	Selects the videos codecs, the codecs supported are H.264 and MJPEG supported. Default setting is H.264.
Profile	Selects the H.264 profile. Three profiles are available: Baseline, Main Profile and High Profile. Default setting is "Main Profile".
Resolution	Specifies the resolution in pixels used at video image, 1080p or 720p.
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).
Preferred Video Codec(Stream3)	Selects the videos codecs, the codecs supported are H.264 and MJPEG supported. Default setting is H.264.
Profile	Selects the H.264 profile. Three profiles are available: Baseline, Main Profile and High Profile. Default setting is "Main Profile".
Resolution	Specifies the resolution in pixels used at video image, 1080p or 720p.
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).

### Notes:

- H.264 suggested if the GDS3710 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 GDS3710 provides three 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 <u>http://www.grandstream.com/support/tools/bandwidth-storage-calc</u>

### **Retrieving Video Streams**

- To retrieve video stream via RTSP, users can use the following format : rtsp://admin:password@IP\_GDS3710:Port/X where X=0,4,8 for 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> streams respectively
- To retrieve MJPEG video stream via http, users can use the following format: http(s)://admin:password@IP:port/jpeg/stream=X (X=Stream channel 0,1,2)

**Important note:** MJPEG is uncompressed video and it can consume a lot of bandwidth and hardware resources, it is recommended to use it while taking this into consideration that it might slow down network and device.

# **OSD Settings**

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

	OSD Settings	
LiveView	Display Time	
E Door System Settings		
System Settings	Display Text	
	OSD Date Format	MM/DD/YYYY T
P Account	OSD Time Format	24H 🔻
Phone Settings	OSD Text	
🗳 Video & Audio Settings		
g_	OSD Date/Time Position	Top Left
Video Settings	OSD Text Position	Top Left
OSD Settings		

#### Figure 66: OSD Settings Page

Table 19: OSD Settings		
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 Date Format	OSD Date format, choose based on user preference.	





OSD Time Format	OSD Time format, choose based on user preference.
OSD Text	Input a text (to identify the GDS3710) it will be shown on the screen.
OSD Date/Time Position	Show the Date/Time position on the screen.
OSD Text Position	Show the text position on the screen.

# **CMOS Settings**

This page configures the CMOS parameters for different scenarios.

	CMOS Settings		
LiveView √	Mode	Normal	•
Door System Settings ^	LDC (Lens Distort Correct)	OFF	•
System Settings	Power Frequency	60HZ	•
Account ^	Shutter Speed	Auto	Ţ
Phone Settings			
🖴 Video & Audio Settings  🗠			
Video Settings			
OSD Settings			
CMOS Settings			

#### Figure 67: CMOS Settings Page

#### Table 20: CMOS Settings

Mode	Pull down to choose "Normal, Low Light, WDR" for different light condition. Default "Normal".
LDC	Default "OFF". When "ON" the display will take a normal shape, but will lose some details located at corner of the original view.
LDC Ratio	Select LDC Ratio. Available options: 0.7 ; 0.8 ; 0.9 ; 1.0 ; 1.1 ; 1.2 ; 1.3 Default value is 1.0
Power Frequency	Select the frequency power. 50Hz or 60Hz.
Shutter Speed	Defines how much time the shutter of the camera or exposed to the light, when taking a screenshot.

# **Audio Settings**

This page allows users to configure the audio settings.





LiveView	Audio Settings		
Door System Settings	Preferred Audio Codec	PCMU	•
P System Settings	System Volume Doorbell Volume	2	•
• Account	Enable Custom Doorbell Ringtone	🖌 🕹 Upload	a Delete
<ul> <li>Phone Settings</li> <li>Video &amp; Audio Cottings</li> </ul>	^		
Video & Audio Settings Video Settings			
OSD Settings			
CMOS Settings			
Audio Settings			

#### Figure 68: Audio Settings Page

### Table 21: Audio Settings

Preferred Audio	Configures the audio codec. Three codecs are available:
Codec	PCMU, PCMA and G.722 are supported.
System Volume	Adjusts the speaker volume connected.
Doorbell Volume	Adjusts the doorbell volume.
Enable Custom	User can check this option in order to use the custom Doorbell Ringtone.
Doorbell Ringtone	Default Ringtone is used when this option is disabled.

- Click on

to upload the ringtone file, then press

💾 Save

- Click on

Delete to delete the existent custom ringtone.

to delete the existent edistoin migtone.

- Support upload WAV, PCM audio file(size <= 600K). Format limit to:</li>
   WAV:
  - 1. Sample Rate: 8k or 16k.

🕹 Upload

2. Channel: Mono-channel or Dual-channel.

PCM:

- 1. Sample Rate: 8K.
- 2. Channel: Dual-channel.

Note: Empty audio file is not accepted.

## **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.





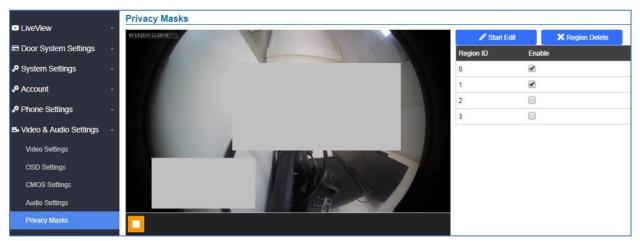


Figure 69: Privacy Masks Configuration Page

# **Alarm Settings**

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

# **Alarm Events Config**

This page allows users to configure GDS3710 events to trigger programmed actions within predefined schedule.





S GDS3710			
<ul> <li>□ LiveView</li> <li>□ Door System Settings</li> <li>▲</li> <li>▲ System Settings</li> <li>▲</li> <li>▲ Account</li> <li>▲</li> </ul>	Alarm Events Config Motion Detection Enable Motion Detection Sensitivity Select Alarm Schedule	Region Config	Edit Schedule
Phone Settings     A     Video & Audio Settings     A     Alarm Settings     Alarm Events Config	Select Alarm Action Profile Digit Input		Edit Profile
Alarm Schedule Settings Alarm Action Settings Alarm Phone List Comparison Settings	Digit Input 1 Digit Input 1 Status Select Schedule 1 Select Alarm Action Profile 1 Digit Input 2	Normal Close	Current state is OPEN  Edit Schedule  Edit Profile
<ul> <li>▲ Maintenance</li> <li>▲</li> <li>④ Status</li> <li>▲</li> </ul>	Digit Input 2 Open Door Option Select Schedule 2	Door 1 Door 2	Edit Schedule
	Enable Silent Alarm Mode		
<u>©</u>	Enable Tamper Alarm Enable Alarm for PIN Input Error Select Alarm Action Profile	Profile 1	Edit Profile
	Enable Non-scheduled Access Alarm		

Figure 70: Events Page

Alarm can be triggered either by motion detection or by GDS3710 input.

## **Motion Detection**

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





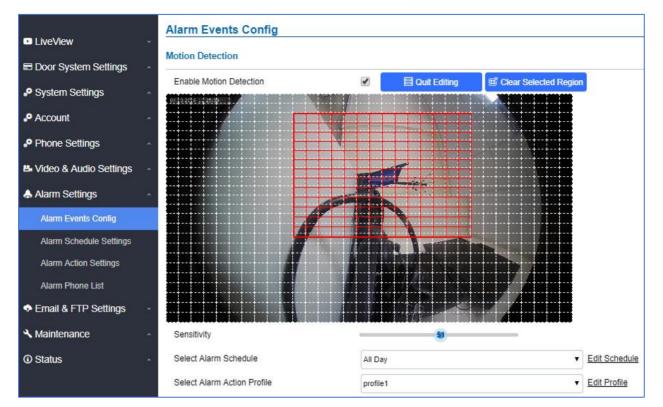


Figure 71: Region Config

#### Table 22: Motion Detection

Enable Motion Detection	Enables the motion detection feature.
Region Config	Configures the motion detection region.
Quit Config	Exits the motion detection region config menu.
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.





# **Digital Input**

Digit Input		
Digit Input 1	Alarm Input	]
Digit Input 1 Status	Normal Close	Current state is OPEN
Select Schedule 1	All Day	Edit Schedule
Select Alarm Action Profile 1	profile1	Edit Profile
Digit Input 2	Open Door	]
Digit Input 2 Open Door Option	🗹 Door 1 📃 Door 2	
Select Schedule 2	All Day	Edit Schedule

Figure 72: Digital Input

# Table 23: Digital Input

Digital Input 1	Selects the Input method (alarm Input or Door Open).
	Default disabled.
	Digital Input Port operates in 2 Modes:
	1. Alarm Input: Connect various of sensor to trigger alarm.
	2. <b>Open door</b> : Connect a switch to open door from inside.
	If Digital Input port is connected to a switch, it will not work during the
	time of power outage, device booting or firmware upgrading.
Digit Input 1 Open Door	• When Digital Input is set to <b>Open door</b> then user can select the
Option	doors to be affected when Alarm IN 1 is triggered.
Input Digit 1 Status	• If set to Normal Open: Configured alarm will be triggered when
	Digital Input Status switch from Close to Open.
	• If set to Normal Close: Configured alarm will be triggered when
	Digital Input Status switch from Open to Close.
	By default, Input Digit 1 Status is "Disabled".
Select Alarm Schedule 1	Selects the predefined Alarm Schedule.
Select Alarm Action Profile 1	Selects the predefined Alarm Action for Profile 1.
Digital Input 2	Selects the Input method (alarm Input or Door Open).
	Default disabled.
	Digital Input Port operates in 2 Modes:
	1. Alarm Input: Connect various of sensor to trigger alarm.
	2. <b>Open door:</b> Connect a switch to open door from inside.
	If Digital Input port is connected to a switch, it will not work during the
	time of power outage, device booting or firmware upgrading.





Digit Input 2 Open Door	When Digital Input is set to <b>Open door</b> then user can select the doors
Option	to be affected when Alarm IN 2 is triggered.
Input Digit 2 Status	<ul> <li>If set to Normal Open: Configured alarm will be triggered when Digital Input Status switch from Close to Open.</li> <li>If set to Normal Close: Configured alarm will be triggered when Digital Input Status switch from Open to Close.</li> <li>By default, Input Digit 2 Status is "Disabled".</li> </ul>
Select Alarm Schedule 2	Selects the predefined Alarm Schedule.
Select Alarm Action Profile 2	Selects the predefined Alarm Action for Profile 2.
Alarm Output Duration(s)	Select the duration of the alarm output: 5/10/15/20/25/30 seconds. This option is hidden when <b>ALMOUT1 Feature</b> is set to Open Door.

## **Enable Silent Alarm Mode**

If Silently Alarm Mode is enabled, GDS3710 will disable alarm sound and background light for specified alarms types (Digital Input, Motion Detection...) when they are triggered.

**Note:** This option affects only alarm sound/light, other actions will still be applied.

Table 24: Silently Alarm Mode		
Enable Silent Alarm Mode	Enable/Disable silent alarm mode.	
Silently Alarm Options	When the silently alarm mode is enabled, users can specify to which	
	alarm options the silently mode will be applied to.	
	The available options are: Digital Input, Motion Detection, Tamper	
	Alarm, and Password Error.	

#### **Hostage Code**

Hostage password can be used in a critical situation for instance a kidnaping or an emergency, users need to enter the following sequence to trigger the actions set for the Hostage Mode: **\*\* HostagePassword #**".

Table 25: Hostage Code Alarm		
Enable Hostage Code	Enable/Disable the Hostage password mode.	
Hostage Code	Configures the password for the hostage mode.	
Select Alarm Action Profile	Select the Alarm action to be taken when the hostage password is	
typed on the GDS3710 keypad.		
	Note: No sound alarm will be triggered in this mode.	





## **Tamper Alarm**

Tamper alarm is anti-hack from Hardware level. When this option is checked, if the GDS3710 is removed from the installation board, it will trigger configured alarm actions. There is an embedded mechanism on the GDS3710 that allows it to detect when it is removed.

#### Table 26: Tamper Alarm

Enable Tamper Alarm	When activating this mode, GDS3710 will keep alarming until the alarm is dismissed.
Select Alarm Action Profile	Select the type of alarms actions to be triggered for the tamper alarm mode.

### **Keypad Input Error Alarm**

Table 27: Keypad Input Error Alarm		
Enable Keypad Input Error	Enable/Disable the Input Error Alarm, GDS3710 will trigger alarm	
Alarm	actions at every 5 incorrect attempts.	
Select Alarm Action Profile	Select the type of alarms actions to be triggered after 5 incorrect	
	attempts.	

### **Non-Scheduled Access Alarm**

Table 28 : Non-Scheduled Access Alarm		
Enable Non-Scheduled	When enabling this feature, GDS3710 will trigger alarm to related	
Access Alarm administrator to be aware when legitimated users access the door out		
	of the allowed configured schedule	
Select Alarm Action Profile	Select the type of alarms actions to be triggered.	

# **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.





LiveView ~	Alarm Schedule Settings			
	No.	Schedule Name	Detail	Edit
Door System Settings	1	schedule1	$\odot$	$\oslash$
System Settings		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		
P Account		Sun	10 13 20 21 22 23 0	
Phone Settings		Mon		
🗳 Video & Audio Settings 🔹		Tue		
		Wed		
Alarm Settings		Thu		
Alarm Events Config		Fri		
Alarm Schedule Settings		Sat		
Alarm Action Settings	2	schedule2	$\odot$	$\oslash$
Alarm Phone List	3	schedule3	$\odot$	$\oslash$
Email & FTP Settings	4	schedule4 💿 🖉		$\oslash$
A Maintenance	5	schedule5 💿 ⊘		$\oslash$
	6	schedule6 💿 🧭		$\oslash$
Status ^	7 schedule7 💿 ⊘		$\oslash$	
	8	schedule8	$\odot$	$\oslash$
	9	schedule9	$\odot$	$\oslash$
	10	schedule10	$\odot$	$\oslash$

Figure 73: Alarm Schedule

GDS3710 supports up to 10 alarm schedules to be configured, with time span specified by users. User can

edit the alarm schedule by clicking  $\bigcirc$  button. Usually the 24 hours' span is 00:00 ~ 23:59, which is 24 hours' format.

Users can copy the configuration to different date during the schedule programming.

Modify Schedule			×
Schedule Name	schedule1		
Sun	Period1	00 💙 : 00 💙 - 23 💙 : 59 💙	
Mon	Period2		
Tue	Period3	00 - : 00 - 00 : 00 -	
Wed	Period4		
Thu			
Fri	Period5		
Sat	Period6		
	Period7		
	Period8		
Copy 🖌 Sun 🗌 Mor	n 🗌 Tue 🗌 We	d 🗌 Thu 🔄 Fri 🔄 Sat 🗌 Select All	
	Save	Cancel	

Figure 74: 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.

Alarm Action S	ettings			
No.	Alarm Action Profile Name	Detail	Edit	Test
1	profile1	$\odot$	$\oslash$	*
	Image: Wight of W			
2	profile2	$\odot$	Ø	*
3	profile3	$\odot$	$\oslash$	*
4	profile4	$\odot$	$\oslash$	*
5	profile5	$\odot$	$\oslash$	**
6	profile6	$\odot$	$\oslash$	**
7	profile7	$\odot$	Ø	**
8	profile8	$\odot$	$\oslash$	*
9	profile9	$\odot$	Ø	**
10	profile10	$\odot$	$\oslash$	×

#### Figure 75: Alarm Action

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

Modify Alarm Action Profile			×
Alarm Action Profile Name	profile1		
Upload to Alarm Center		Audio Alarm	
Audio Alarm to SIP Phone		Alarm Output	
Send Email		Upload Snapshot	
	Save	Cancel	

#### Figure 76: Edit Alarm Action

To test an alarm action profile, users can click on button and the GDS will initiate all actions specified on the select alarm profile.





#### Table 29: Alarm Actions

Upload to Alarm Center	If selected, the GDSManager will popup alarm window and sound alarm in the computer speaker.
Audio Alarm to SIP	If selected, GDS3710 will call pre-configured (video or audio) phone and
Phone	will play sound alarm.
Send Email	If selected, an email with snapshot will be sent to the pre-configured email destination.
Audio Alarm	If selected, GDS3710 will play alarm audio using built-in speaker.
Alarm Output	If selected, the alarm will be sent to the equipment (for example: Siren) connected to Alarm Output interface.
Upload Snapshot	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 GDS3710 will call out when event is trigged (e.g.: doorbell pressed).

LiveView	Alarm Phone List		
	Alarm Call Out Account	Auto	•
Door System Settings ^	Alarm Phone List 1	192.168.1.12:5060	
System Settings	Alami Filone List 1	192.168.1.12:5060	V
	Alarm Phone List 2	1004	¢
Account	Alarm Phone List 3	1003	و
Phone Settings	Alarm Phone List 4		
Uideo & Audio Settings ^	Alarm Phone List 4		~
Ca viaco a Audio Sciangs	Alarm Phone List 5		¢,
Alarm Settings	Alarm Phone List 6		¢
Alarm Events Config	Alarm Phone List 7		
Alarm Schedule Settings	Alam Phone List /		~
	Alarm Phone List 8		¢.
Alarm Action Settings	Alarm Phone List 9		و
Alarm Phone List	Alarm Phone List 10		
Email & FTP Settings	Alarm Phone List To		<b>`</b>
N Maintananaa			
A Maintenance			
③ Status ^			

#### Figure 77: Alarm Phone List

#### Table 30: Alarm Phone List

Alarm Call Out Account	Select the SIP Account to be used by the GDS 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).





Once the event is triggered (Motion Detection, Door Bell Pressed...), the GDS3710 will call the first number, once time out is reached and no answer is returned from the first number, the GDS3710 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 trigged.

LiveView	SMTP	
	SMTP Server	
Door System Settings	SMTP Server Port	25
System Settings	From E-Mail Address	
P Account	Sender Email ID	
Phone Settings	Sender Email Password	
🗳 Video & Audio Settings	Alarm-To Email Address 1	
Alarm Settings	Alarm-To Email Address 2	
Email & FTP Settings	^ SSL	
Email Settings		
FTP & Central Storage		
A Maintenance		
<ol> <li>Status</li> </ol>	*	

#### Figure 78: Email Settings - SMTP Page

Table 31: Email Settings - SMTP

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 <sup>st</sup> email address to receive the alarm email.





Alarm-To Email	Specifies the 2 <sup>nd</sup> email address to receive the alarm email.
Address 2	
SSL	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.
   E-Mail test successfully

## **FTP & Center Storage**

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

Storage Server Type	Selects whether to upload pictures to the GDS Manager or upload them to the FTP server.
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 User Name	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 32: Picture Storage Settings

**Note:** Blank fields when using Storage Server Type as Central Storage might imply no configuration in GDSManager.





	Snapshot Storage Settings	
LiveView ~	Storage Server Type	FTP
Door System Settings ^		
System Settings	FTP Server	
	FTP Server Port	21
Account	FTP User Name	
Phone Settings	FTP Password	
🖧 Video & Audio Settings		
A 41 0-18	FTP Path	<u>/</u>
Alarm Settings		FTP Test
Email & FTP Settings		
Email Settings		
FTP & Central Storage		



#### 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 webGUI
   FTP test successfully.
- Central Storage will use GDS Manager built-in FTP server to store screenshots.

## **FTP Filenames**

When setting up FTP server to store snapshots (when doorbell pressed, or door Unlocked), the GDS will create folder with device MAC address (if multiple GDS3710s are sending snapshots to same FTP server).

In EACH folder based on MAC address or device, the file folder will be created by DATE, to organize and classify the snapshots received during different DATE for easy analysis.

In EACH folder classified with DATE, the snapshot file name is based on following naming schema:

#### Table 33: FTP Filenames

FTP Filename with	Description
CARD	Meaning that open door operation is using RFID card.
LPIN (Local PIN)	Meaning that open door operation is via Local PIN (Private PIN, or Unified PIN, or Guest PIN).
RPIN (Remote PIN)	Meaning that open door operation is via remote PIN or DTMF PIN. (by local or remote SIP extensions, or GS_Wave/Cellphone, or GDSManager if installed in operation).





### **RING** Meaning the snapshot taken when somebody pressed the Door Bell button.

The following figure illustrates the FTP filenames sent to the FTP server when the above operations have been taken:

Friday,		0.00					BA854E CARD 2018-03-02 100355 7558019 0.jp
Friday,							BA854E CARD 2018-03-02 100356 0.jpg
Friday,							BA854E CARD 2018-03-02 100356 7558019 1.jp
Friday,		111111					BA854E CARD 2018-03-02 100357 0.jpg
Friday,							BA854E CARD 2018-03-02 100358 0.jpg
Friday,							BA854E CARD 2018-03-02 100359 0.jpg
Friday,							BA854E CARD 2018-03-02 100400 0.jpg
Friday,	March	02,	2018	9:39	MA		BA854E CARD 2018-03-02 100401 0.jpg
Friday,							BA854E LPIN 2018-03-02 080942 0.jpg
Friday,							BA854E LPIN 2018-03-02 080943 0.jpg
							BA854E LPIN 2018-03-02 080944 0.jpg
Friday,	March	02,	2018	7:46	AM		BA854E LPIN 2018-03-02 080945 0.jpg
Friday,	March	02,	2018	7:46	AM	79908	BA854E LPIN 2018-03-02 080946 0.jpg
Friday,	March	02,	2018	7:46	AM	79514	BA854E LPIN 2018-03-02 080947 0.jpg
Friday,	March	02,	2018	7:46	AM	80353	BA854E LPIN 2018-03-02 080948 0.jpg
Friday,	March	02,	2018	8:36	AM	81201	BA854E LPIN 2018-03-02 090050 0.jpg
Friday,	March	02,	2018	8:36	AM	82609	BA854E LPIN 2018-03-02 090051 0.jpg
Friday,	March	02,	2018	8:36	AM	79362	BA854E LPIN 2018-03-02 090052 0.jpg
Friday,	March	02,	2018	8:36	AM	86139	BA854E LPIN 2018-03-02 090053 0.jpg
Friday,							BA854E LPIN 2018-03-02 090054 0.jpg
Friday,	March	02,	2018	8:36	AM	84463	BA854E LPIN 2018-03-02 090055 0.jpg
Friday,	March	02,	2018	8:36	MA	86007	BA854E LPIN 2018-03-02 090056 0.jpg
Friday,	March	02,	2018	8:50	AM	82610	BA854E LPIN 2018-03-02 091348 0.jpg
Friday,	March	02,	2018	8:50	AM	81378	BA854E LPIN 2018-03-02 091349 0.jpg
Friday,	March	02,	2018	8:50	AM	83379	BA854E LPIN 2018-03-02 091350 0.jpg
Friday,	March	02,	2018	8:50	AM	83745	BA854E LPIN 2018-03-02 091351 0.jpg
Friday,	March	02,	2018	8:50	AM	87227	BA854E LPIN 2018-03-02 091352 0.jpg
Friday,	March	02,	2018	8:50	AM	87199	BA854E LPIN 2018-03-02 091353 0.jpg
Friday,	March	02,	2018	8:50	MA	84078	BA854E LPIN 2018-03-02 091354 0.jpg
Friday,	March	02,	2018	9:44	AM	77783	BA854E LPIN 2018-03-02 100955 0.jpg

Figure 80 : FTP filenames

# **Maintenance Settings**

This page shows the GDS3710 Maintenance parameters.

## Upgrade

This page contains the upgrade and provisioning parameters of the GDS3710.





S GDS3710			English ~   Logout 2019-08-06 15:31
□ LiveView ×	Upgrade Firmware		Config File Prefix
Door System Settings ^	Upgrade Via	HTTP	Example: Prefix of
System Settings ^	Firmware Server Path	HTTP • •	'gs.cfg000B82BABCBA.xml' is 'gs.'
Account ^	HTTP/HTTPS User Name	m.grandstream.com/gs	
Phone Settings	HTTP/HTTPS Password		
B Video & Audio Settings ~	Firmware File Prefix		
Alarm Settings	Firmware File Postfix		
Email & FTP Settings ×	Config		
A Maintenance	Upgrade Via	HTTPS •	
Upgrade	Config Server Path	fm.grandstream.com/gs	
Reboot & Reset	HTTP/HTTPS User Name		
Debug Log	HTTP/HTTPS Password		
Data Maintenance System Health Alert	Config File Prefix		
Event Notification	Config File Postfix		
Event Log	XML Config File Password		
Certificates			
③ Status	Validate Server Certificates		
	Enable DHCP Option 66 Override Server		
<u></u>	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 0 End 0	
	Day of the Week (0-6)	0	
	Save	srandstream Networks, Inc. 2019, All Rights Reserved	

#### Figure 81: Upgrade Page

#### Table 34: Upgrade

Upgrade Via	Selects the upgrade method (TFTP, HTTP, and HTTPS).
Firmware Server Path	Configures the IP address or the FQDN of the upgrade server.
HTTP/HTTPS User Name	The user name 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.
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 User Name	The user name 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.
Automatic Upgrade Interval	Specifies the upgrade interval in minutes.
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 minutes, 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 GDS will randomly checking for update.

#### LED Pattern:

During the upgrade process and starting from firmware 1.0.3.32, the GDS will give indication about the progress of the process using LED lighting as follow:

- 1) Doorbell button blue LED will flash when firmware files are downloading.
- 2) Digit 1,2,3 blue LED will flash during upgrading from 0 to 25%, then stays on.
- 3) Digit 4,5,6 blue LED will flash during upgrading from 25 to 50%, then stays on.
- 4) Digit 7,8,9 blue LED will flash during upgrading from 50 to 75%, then stays on.
- 5) Digit \*,0,# blue LED will flash during upgrading from 75 to 100%, then stays on.
- 6) After all key's blue LEDs light on then flash twice then reboot itself to finish the upgrade process.

## **Reboot & Reset**

This page allows user to reboot and reset the GDS3710.





	Reboot & Reset		
LiveView ~	Reboot	Reboot	
E Door System Settings	Trebuot.	Republ	
	Reset	Retain Network Data Only	Reset
System Settings		Clear All Data	
Account ^		Retain Network Data Only Retain Only Card Information	
Account ^		Retain Network Data and Card Information	
Phone Settings			
🖧 Video & Audio Settings 🛛 🗠			
Alarm Settings			
Email & FTP Settings			
A Maintenance			
Upgrade			
Reboot & Reset			

#### Figure 82: Reset & Reboot Page

### Table 35: Reset & Reboot

Reboot	When clicked, the GDS3710 will restart (soft reboot).
Reset	There are two options for the reset function.
Clear All Data	All data will be reset, GDS3710 will be set to factory default.
Retain Network Data Only	All data will be erased except for Network data like IP address
Retain Only Card Information	All data will be erased except for cards information.
Retain Network Data and Card	All data will be erased except for Network Data and Card Information.
Information	

# **Debug Log**

This page allows user to configure SYSLOG to collect information to help troubleshooting issues with GDS3710.





	Debug Log	
LiveView ~	Debug Log Server	
Door System Settings ~		
Custom Cottings	Debug Log Level	Debug 🔻
System Settings		None Debug
Account ^		Info
O Dhana Oattinga		Warning Error
Phone Settings		
📇 Video & Audio Settings 🛛 ^		
Alarm Settings		
Email & FTP Settings ^		
A Maintenance		
Upgrade		
Reboot & Reset		
Debug Log		

#### Figure 83: 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 GDS3710 to apply the settings.

## **Data Maintenance**

This page allows users to manage the GDS3710 configuration file by importing/exporting configuration files.





	Data Maintenance		
<ul> <li>LiveView</li> <li>Door System Settings</li> <li>System Settings</li> <li>Account</li> <li>Phone Settings</li> <li>Video &amp; Audio Settings</li> </ul>	Data Type Import	System Config Data(Password not included)	ය Export
Alarm Settings	~		
Email & FTP Settings	~		
A Maintenance	~		
Upgrade			
Reboot & Reset			
Debug Log			
Data Maintenance			
	Figure 84: Data Mai	ntenance Page	

Click on

to save the GDS3710 configuration in a predefined directory.

**Note**: 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.

## System Health Alert

🕹 Export

This option allows users to receive alert emails regarding SIP Registration Status of accounts, System Running Status or System Temperature in real time or in a periodic manner.

	System Health Alert	
	Enable System Health Alert	
Door System Settings	Delivery Method Real-time	•
System Settings	Email Title test	5
P Account		
Phone Settings	Event Name	
🖴 Video & Audio Settings	SIP Registration Status	
Alarm Settings	System Running Status	
Email & FTP Settings	System Temperature	
A Maintenance		
Upgrade		
Reboot & Reset		
Debug Log		
Data Maintenance		
System Health Alert		

#### Figure 85: System Health Alert Page





Enable System Health Alert	When this option is checked, then the GDS will send alert emails
	regarding the events selected under Event Name section using the
	already configured [Email Settings].
Delivery Method	When set to Realtime, the GDS will be sending successively alert
	emails every second.
	When set to Periodic, user can define the time interval between alert $% \left( {{{\mathbf{r}}_{i}}} \right)$
	emails.
Email Title	Customize the Email title. Maximum length is 256 character.
SIP Registration Status	When checked, Email will contain Offline/Online indication for all 4
	accounts.
System Running Status	When checked, Email will contain the system uptime.
System Temperature	When checked, Email will contain Temperature value of the system
	in °C and °F, as well as whether the temperature is normal on not.

## **Event Notification**

This page allows users to configure the event notification details that will be used by GDS3710 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: RFID open door, PIN open door, SIP Call, Alarm, etc.

#### Examples:

• After an RFID Card swiping, GDS3710 will send to the configured HTTP server the following HTTP POST containing "Use card open door" event:

```
POST / HTTP/1.1
Host: 192.168.6.107
Authorization: Basic Og==
Connection: keep-alive
Content-Length: 90
```

```
Date: 2017-11-09; Time: 14:07:27; Event describe: Use card open door. Card ID: 378690700.
```

• After making a Call, when doorbell pressed, GDS3710 will send to the configured HTTP server the following HTTP POST containing "Phone call" event:

```
POST/HTTP/1.1
```

```
Host:192.168.6.107
Authorization:BasicOg==
Connection:keep-alive
Content-Length:62
```

Date: 2017-11-09; Time: 14:13:12; Event describe: Phone call.





These HTTP POST messages can be used by a 3<sup>rd</sup> party software to integrate the GDS3710.

	Event Notification	
LiveView *	Frakla Furst Nation	
Door System Settings	Enable Event Notification	
•	Via Type	нттр
System Settings	HTTP/HTTPS Server	
Account ^		
Dhone Cottinge	HTTP/HTTPS Server Username	
Phone Settings	HTTP/HTTPS Server Password	
🖴 Video & Audio Settings 🔹 ^		{"mac":"\${MAC}","content":"\${WARNING_MSG}"}
Alarm Settings	URL Template	
, , , , , , , , , , , , , , , , , , ,		
Email & FTP Settings		
A Maintenance	Templete Verightee	\${MAC} : MAC Address
Unanada	Template Variables	<pre>\${TYPE} : Event Type</pre>
Upgrade		<pre>\${WARNING_MSG} : Event Message</pre>
Reboot & Reset		\${DATE} : Date & Time
Debug Log		\${CARDID} : Card Number*
Data Maintenance		\${SIPNUM} : Sip Number
		1: {"mac":"\${MAC}","content":"\${WARNING_MSG}"}
System Health Alert	Template Samples	2 : <body><mac>\${MAC}</mac><content>\${WARNING_MSG}</content></body>
Event Notification	- •	2 subuy- <mac-stmac-stmac-content-stwartwing_wsgy-content-< body-<br="">3 : mac=stMAC}&amp;content=stWARNING_MSG}</mac-stmac-stmac-content-stwartwing_wsgy-content-<>

Figure 86: Log Manager Page

Table 36 : 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/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





	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:
URL Template	<ul> <li>\${MAC} : MAC Address</li> <li>\${TYPE} : Event Type</li> <li>\${WARNING_MSG} : Event Message</li> <li>\${DATE} : Date &amp; Time</li> <li>\${CARDID} : Card Number</li> <li>\${SIPNUM} : SIP Number</li> </ul>

## **Event Log**

Users could check all device logs directly from the GDS web UI under the menu "Maintenance  $\rightarrow$  Event log".

In order to get logs for a specific date interval, select the Start Time and End Time, then select which Event

type you want to check using the drop-down list, and click on

to display the records.

The following Event Types are included for filtering:

- Open Door via Card
- Visiting Log
- Open Door via PIN
- Open Door via DI
- Open door by SI
- Call Log
- Open Door via Card and PIN
- Open Door via Remote PIN
- Motion Detection
- DI Alarm
- Door & Lock Abnormal Alarm
- Dismantle by Force
- System Up
- Reboot
- Reset
- Config Update
- Firmware Update
- Non-scheduled Access
- Hostage Alarm
- Invalid Password
- Temperature Alarm





LiveView ~	Start Time 2	019-04-10 00:00:00 💮 End	d Time 2019-04-10 14:34:09 📷 All	<ul> <li>Q Search</li> </ul>		
Door System Settings	No. <sup>4</sup>	Date & Time	Event Type	♦ Username ♦	Card Number 🛔	(Account)Sip Number
System Settings	1	2019-04-10 08:06:02	System Up			
Account ^	2	2019-04-10 08:14:55	Call Log(Door Bell Call)			(1)6400
	3	2019-04-10 08:15:13	Visiting Log(Door 1)			(1)6400
Phone Settings	4	2019-04-10 08:15:35	Call Log(Door Bell Call)			(1)4000
Video & Audio Settings	5	2019-04-10 08:15:50	Visiting Log(Door 1)			(1)4000
Alarm Settings	6	2019-04-10 08:16:44	Reboot			
	7	2019-04-10 08:17:09	System Up			
Email & FTP Settings	8	2019-04-10 08:25:54	Call Log(Door Bell Call)			(1)4000
Maintenance ^	9	2019-04-10 08:26:09	Visiting Log(Door 1)			(1)4000
Upgrade	10	2019-04-10 08:31:52	System Up			
	11	2019-04-10 08:40:37	Call Log(Door Bell Call)			(1)6400
Reboot & Reset	12	2019-04-10 10:27:27	Call Log(Door Bell Call)			(1)3004
Debug Log	13	2019-04-10 10:27:42	Call Log(Door Bell Call)			(1)3004
Data Maintenance	14	2019-04-10 10:27:52	Call Log(Door Bell Call)			(2)3004
System Health Alert	15	2019-04-10 10:28:16	Call Log(Door Bell Call)			(1)3004
	16	2019-04-10 10:28:39	Call Out Log			(2)3004
Event Notification	17	2019-04-10 11:12:21	Call Log(Door Bell Call)			(1)3004
Event Log	18	2019-04-10 11:12:35	Call Log(Door Bell Call)			(1)3004
Certificates						

#### Figure 87: Event Logs

For more information about event logs, please visit this guide.

## Certificates

This page allows users to upload up to 6 Trusted CA certificate files which will be trusted by the GDS during SSL exchange.

Also users are allowed to configure the device with custom certificate signed by custom CA certificate under the Custom Certificate section.

d CA Certif	ioutes		
No.	Issued By	Expiration	
1			Delete
2			🖬 Upload 📋 Delete
3			🖿 Upload 📋 Delete
4			🖿 Upload 💼 Delete
5			🖿 Upload 📋 Delete
6			🖿 Upload 👘 Delete
om Certificat	e		
	Issued By	Expiration	

Figure 88: Upload Certificate files

In order to upload your Trusted CA certificate:

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	I CA Certificate	S		
No.	Issued By	Expiration		
1	-	2018-07-17 15:46:03	🖬 Upload	💼 Delete
2			🖪 Upload	💼 Delete

User could press **Delete** to delete one of the files.

In order to upload your Custom certificate:

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
User could pres	s 🗖 🖬 Delete	to delete one of the files.	

## **Status**

This page displays GDS3710 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





LiveView	J	Account Status			
Door System Settings	Ĵ	Account	SIP User ID	SIP Server	SIP Registration Status
System Settings	Ĵ	Account 1	3000	192.168.5.100	Offline
• Account		Account 2	3001	192.168.5.100	Online
Phone Settings	÷	Account 3	3002	192.168.5.187	Offline
🗳 Video & Audio Settings	÷	Account 4	3003	192.168.5.187	Offline
Alarm Settings	÷				
Email & FTP Settings	÷				
X Maintenance	÷				
③ Status	^				
Account Status					
System Info					
Network Info					

#### Figure 89: System Info Page

## System Info

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

	System Info	
LiveView ·	Product Model	GDS3710
Door System Settings ~	Hardware Version	V1.5A
• System Settings	Part Number	9650001415A
• Account		
Phone Settings	Boot Version	1.0.0.30
	Core Version	1.0.5.6
🗳 Video & Audio Settings 🗸	Base Version	1.0.5.6
Alarm Settings	Prog Version	1.0.5.6
Email & FTP Settings	System Uptime	4 hours 6 minutes
🔧 Maintenance 🛛 🗸 🗸		
③ Status ^	Firmware Status	Press check button and reload page to check firmware availability.
Account Status		Check
System Info		
Network Info	System Temperature	41°C (105.8°F)
	Tamper Sensor	Triggered
	Door 1 Ctrl	Untriggered
	Door 2 Ctrl	Untriggered
	Digit Input 1	Untriggered
	Digit Input 2	Untriggered

Figure 90: System Info Page





	Table 37: 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.
System Up Time	Displays the time since the first boot of the GDS3710.
SIP Registration Status	Sows whether the SIP account is registered or not.
Firmware Status	Click the Check button to check whether the firmware in the firmware server has an updated version, if so, update immediately.
System Temperature	Shows the current system temperature (in °C and °F).
Tamper Sensor	Shows if the Temper Sensor is triggered or not.
Digit Output	Shows if the Alarm Out is triggered or not. If <b>ALMOUT1 Feature</b> is set to Open Door, then two fields will show up indicating the state of both door 1 and door 2.
Input Digit 1	Shows if alarm IN 1 is triggered.
Input Digit 2	Shows if alarm IN 2 is triggered.

## **Network Info**

This page displays the network system information of GDS3710.





		Network Info	
LiveView	ř	MAC Address	00:0B:82:AB:AE:8A
Door System Settings	v	MAC Address	00.0B.82.AB.AE.8A
		IP Address Mode	DHCP
System Settings	Ŷ	IP Address	192.168.5.130
P Account	×	Subnet Mask	255.255.255.0
Phone Settings	÷		
		Gateway	192.168.5.1
Video & Audio Settings	ř	DNS Server 1	8.8.8.8
Alarm Settings	×	DNS Server 2	8.8.4.4
Email & FTP Settings	Ŷ		
A Maintenance	÷		
<ol> <li>Status</li> </ol>	^		
Account Status			
System Info			
Network Info			

#### Figure 91: Network Info Page

## Table 38: Network Info

MAC Address	Displays the GDS3710 MAC Address.
IP Address Mode	Displays the IP address mode used.
IP Address	Displays the IP address of the GDS3710.
Subnet Mask	Displays the Subnet Mask used.
Gateway	Displays the GDS3710 Gateway.
DNS Server 1	Displays the Preferred DNS Server.
DNS Server 2	Displays the secondary DNS Server.





# **CONNECTING GDS3710 WITH GXV32XX**

The GDS3710 Door System offers a powerful integration with GXV32xx and allows users to open the door, initiates call to the GDS3710 and gets real time audio/video stream.

The GXV3275 can be connected with the GDS3710 in two different ways, either using peering mode (without a SIP server) or through a SIP server. For more details, please refer to following guide:

http://www.grandstream.com/sites/default/files/Resources/Connecting the GDS3710 with GXV32XX C onfiguration Guide.pdf





# **CONNECTING GS WAVE WITH GDS3710 DOOR SYSTEM**

The GDS3710 Door System can interact with the GS Wave softphone application to allow users to open door, initiate call to the GDS3710, offering more mobility during security monitoring and increasing connectivity to essential communications and real-time audio/video stream.

- **GS Wave Android**: For more details about needed steps for configuring the GDS3710 to connect with Grandstream Wave Android<sup>™</sup> version, please refer to following guide:

http://www.grandstream.com/sites/default/files/Resources/Connecting GDS3710 with GS Wave Androi d\_Guide.pdf

- **GS Wave IOS**: For more details about needed steps for configuring the GDS3710 to connect with Grandstream Wave iOS<sup>™</sup> version, please refer to following guide:

http://www.grandstream.com/sites/default/files/Resources/Connecting GDS3710 with GS Wave iOS G uide.pdf





# **GDS3710 HTTP API**

Grandstream Door System supports HTTP API (Application Programming Interface).

For more details, please refer to following guide: http://www.grandstream.com/sites/default/files/Resources/gds37xx http\_api.pdf

The document explains in detail the external HTTP-based application programming interface and parameters of functions via the supported method. The HTTP API is firmware dependent. Please refer to the related firmware Release Note for the supported functions.

<u>Administrator Privilege</u> is required, and administrator authentication verification has to be executed before any operation to the related parameter configuration.





# **FACTORY RESET**

# **Restore to Factory Default via Web GUI**

To perform factory reset to the GDS3710 via the Web GUI, please refer to following steps:

- 1. Access to GDS3710 Web GUI using the using the shipped default password.
- 2. Navigate to Maintenance  $\rightarrow$  Reboot & Reset.
- 3. Select the reset type from Rest drop down menu and press reset button as displayed on the following screenshot.

	Reboot & Reset		
LiveView ×	Reboot	Reboot	
Door System Settings ^			
• System Settings	Reset	Retain Network Data Only   Clear All Data Retain Network Data Only	Reset
• Account ·		Retain Network Data and Card Information	
Phone Settings			
🖴 Video & Audio Settings 🛛 👻			
Alarm Settings			
Email & FTP Settings			
A Maintenance			
Upgrade			
Reboot & Reset			

Figure 92: Reset via Web GUI

## **Hard Factory Reset**

Some users did not keep the revised password safely and forgot the changed password. Due to GDS3710 did NOT have built-in reset button (Grandstream purposely designed this way to enhance security), this will make the GDS3710 inaccessible even for the true owner who lost the changed password.

Starting from firmware 1.0.2.21, Grandstream introduced a special way to do hard factory reset using the Wiegand Interface Cable shipped with GDS3710. Below is a photo of the normal connection of the provided Wiegand cable.

Important note: Power must NOT be lost while performing hard factory reset.







Figure 93: Wiegand Interface Cable

To perform hard factory reset to the GDS3710, please refer to following steps:

- 1. Power OFF the GDS3710.
- 2. Take the provided Wiegand cable, connect (or shorting) the related color wires as illustrated on the following picture. Please make sure the connection is correct and solid:
  - Connect **WHITE** and **BROWN** cable together.
  - Connect **GREEN** and **ORANGE** cable together.

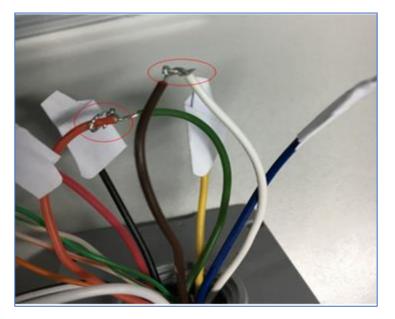


Figure 94: Wiegand Cable Connection





 Power ON the GDS3710. In about 10 seconds, the key pad LED lighting will change from solid lighting to blinking, the blinking time window is about 30 seconds. The user needs to enter the following key combination \*0# while the LED is blinking.

### Notes:

- If the correct key combination inputted, the last key input will play with a long tone, illustrating the correct key combination entered, then the GDS3710 will get into factory reset mode.
- During the blinking time window, if the user does not finish the key combination operation, or pressed the wrong key combination, the GDS3710 will play short beep quickly three times illustrating error. Nothing will happen and the GDS3710 will get into normal booting process. User who wants to do hard factory reset has to perform the operation from the beginning again.
- 4. After 3 ~ 5 minutes the GDS3710 will finish performing the reset process, then the user can log into the GDS3710 web GUI using the shipped default password.
- 5. User has to power OFF the GDS3710, unplug the Wiegand cable, power ON the GDS3710 again and make sure the GDS3710 is running correctly.

# **Restore to Factory Default Via SIP NOTIFY**

- 1. Access your GDS3710 UI by entering its IP address in your favorite browser.
- 2. Go to Phone Settings # page.
- 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 GDS3710 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).





# **EXPERIENCING THE GDS3710**

Please visit our website: <u>http://www.grandstream.com</u> 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 <u>product related documentation</u>, <u>FAQ</u>s and <u>User and Developer Forum</u> 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 your questions. Contact a technical support member or <u>submit a trouble ticket online</u> to receive in-depth support.

Thank you again for purchasing Grandstream Door Phone System, it will be sure to bring convenience and color to both your business and personal life.

