



# Grandstream Networks, Inc.

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## GDS3710 Input/output Connection Guide



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## INTRODUCTION

GDS3710 HD IP Video Door System is a hemispheric IP video door phone and a high-definition IP surveillance. 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, Alarm input/output and more.

This guide explains step by step how to use the GDS3710 Input/Output.



## GDS3710 WIRING CONNECTION

The first step to setup the GDS3710 in an environment is to choose the powering method then and connect an RJ45 cable so it can interact with the network and start operating. Two ways are possible to power the GDS3710 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.

### Powering and Connecting the GDS3710

Below Figures provide description of wiring connection of the GDS3710 Back Cover in order to connect the GDS3710 with RJ45 cable and PSU and Alarm for door systems.

#### Power and Data PINs

In order to power the GDS3710 using PoE, please follow steps below:

- 1- Cut into the plastic sheath of your RJ45 cable, then unwind and pair the colors like shown below.

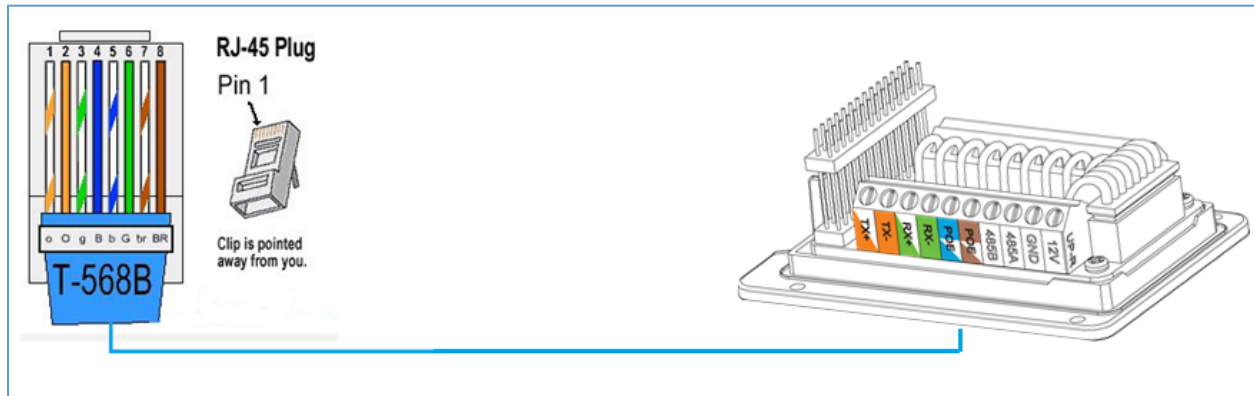
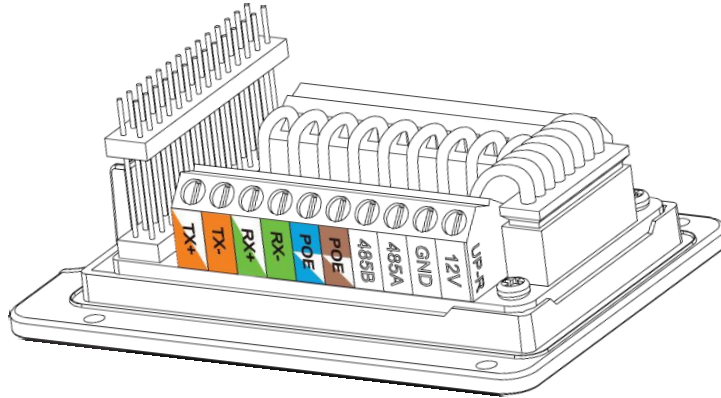


Figure 1: Connection Example

- 2- Connect each color of the RJ45 to its associate on the Back Cover of the GDS3710.

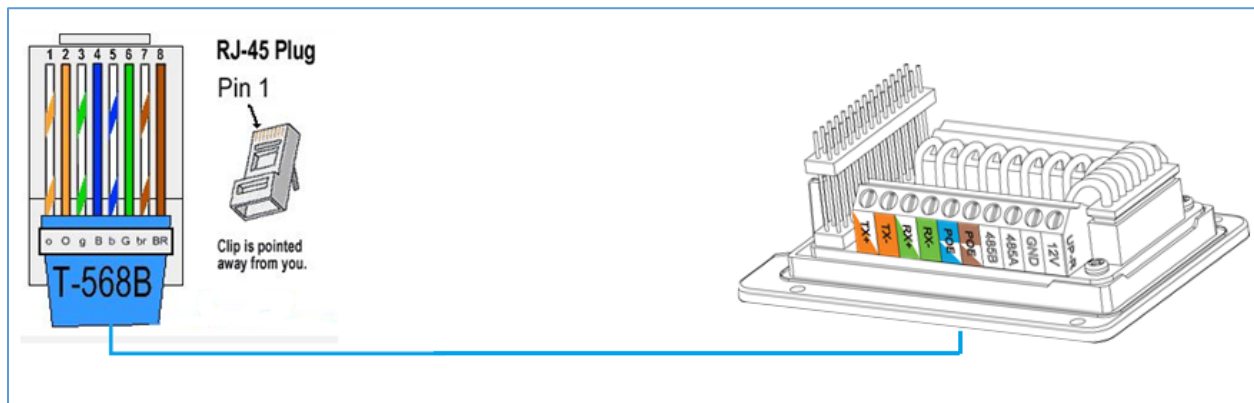




**Figure 2: GDS3710 Back Cover 1**

In order to power the GDS3710 using PSU, please follow steps below:

- 1- Use a multimeter to detect the polarity of your Power Supply, then connect the Back Cover GND to negative pole and 12V to positive pole of the PSU.
- 2- Cut into the plastic sheath of your RJ45 cable, then unwind and pair the colors like shown below



**Figure 3: Connection Example 2**

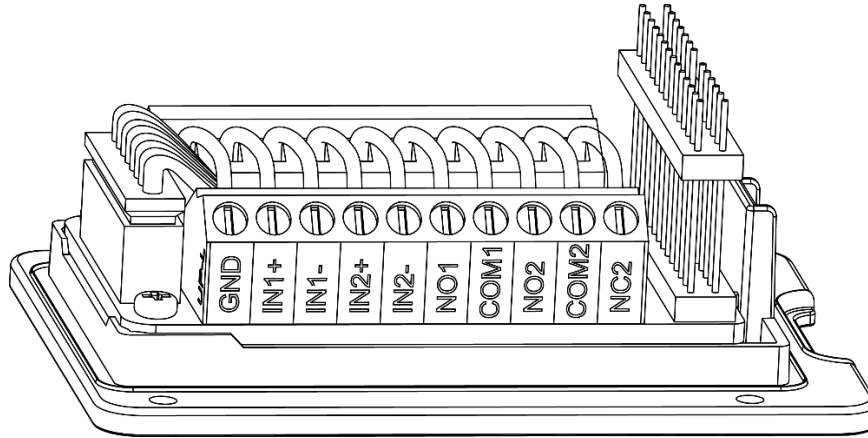
- 3- Connect wires OrangeWhite/Orange and GreenWhite/Green of the RJ45 to its associate on the GDS3710

**Note:** The Blue and Brown PINs are used for PoE, therefore when using PSU we only need to connect the data wires, power will be provided to the GDS3710 trough (12V,GND).

### Alarm In and Alarm Out PINs

The GDS3710 have two Alarm input entries and two alarm output entries and a ground entry as shown in the following figure.





**Figure 4: Back Cover 2**

The following table summarize the GDS3710 entries and their purpose.

Jack	Pin	Signal	Function	Note	
<b>J2 (Basic) 3.81mm</b>	1	TX+	Ethernet POE 802.3af Class 3, 12.95W	Orange / White	Data
	2	TX-		Orange	
	3	RX+		Green / White	
	4	RX-		Green	
	5	PoE_SP2	Please short these two wires together and connect to SP1, SP2 respectively even the PoE NOT used.	Blue + Blue/White	
	6	PoE_SP1		Brown + Brown/White	
	7	RS485_B	RS485		
	8	RS485_A			
	9	GND	Power Supply	<b>DC 12V, 1A Minimum</b>	
	10	12V			
<b>J3 (Advanced) 3.81mm</b>	1	GND	Alarm GND		
	2	ALARM1_IN+	Alarm In	Vin<15V	
	3	ALARM1_IN-			
	4	ALARM2_IN+			
	5	ALARM2_IN-			
	6	NO1	Alarm Out	Relay: 30VDC/2A; 125VAC/0.5A	
	7	COM1			
	8	NO2	Electric Lock	For "Fail Secure" (Locked when Power Lost) Strike, Connecting <b>COM2 &amp; NO2</b> ; For "Fail Safe" (Open when No Power) Magnetic Lock, Connecting <b>COM2 &amp; NC2</b> . <b>Relay: 30VDC/2A; 125VAC/0.5A</b>	
	9	COM2			
	10	NC2			



<b>J4 (Special) 2.0mm</b>	1	GND	Wiegand Power GND	Black	Both Input and Output MUST be connected
	2	WG_D1_OUT	Wiegand Output Signal	Orange	GDS3710 function as Output of Card Reader, Connect Pin 1, 2, 3
	3	WG_D0_OUT		Brown	
	4	LED	Wiegand Output LED Signal	Blue	For External Card Reader; Or GDS3710 as Receiver Only
	5	WG_D1_IN	Wiegand Input Signal	White	For External Card Reader Connect Pin 1,4,5,6,7,8
	6	WG_D0_IN		Green	
	7	BEEP	Wiegand Output BEEP Signal	Yellow	For External Reader Only
	8	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.

**Note:**

Alarm In and Alarm Out are just electronic lock, they are either open to block the current or open to let the current pass through, therefore a third party power supply is needed to power the device connected to the GDS3710 via Alarm In or Alarm Out.

**- Alarm In Connection Example**

Connect Alarm (IN1+, IN1-) or (IN2+, IN2-) to appropriate wires in order to receive signal from the third party device as shown below.

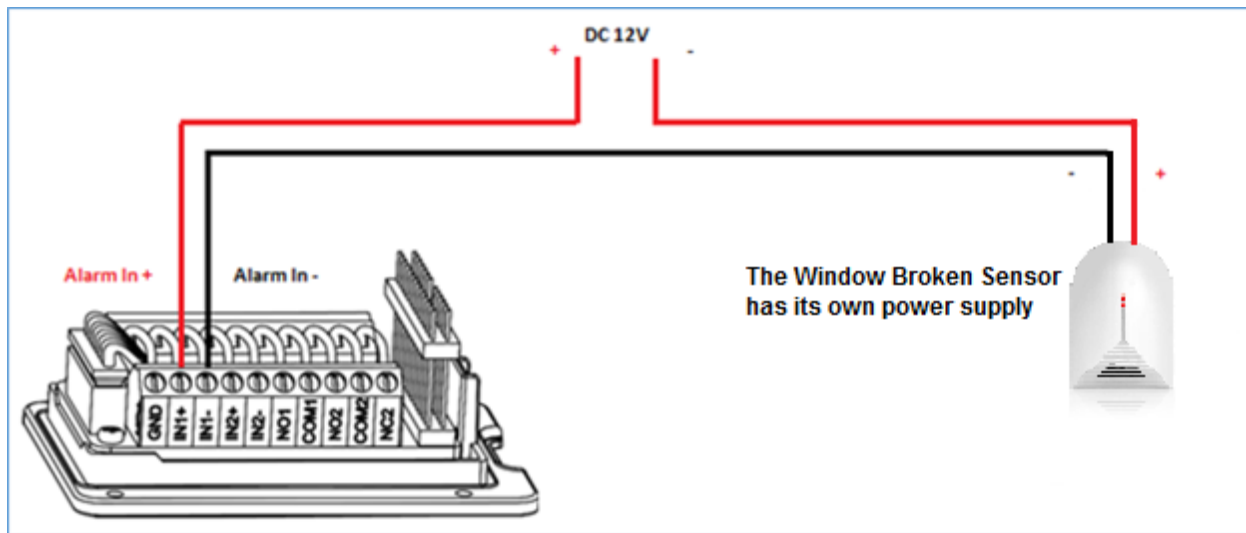


Figure 5: Alarm Input Example

**- Alarm Out Connection Example**

Connect Alarm (NO1, COM1) to appropriate wires in order to receive signal from the third party device as shown below.





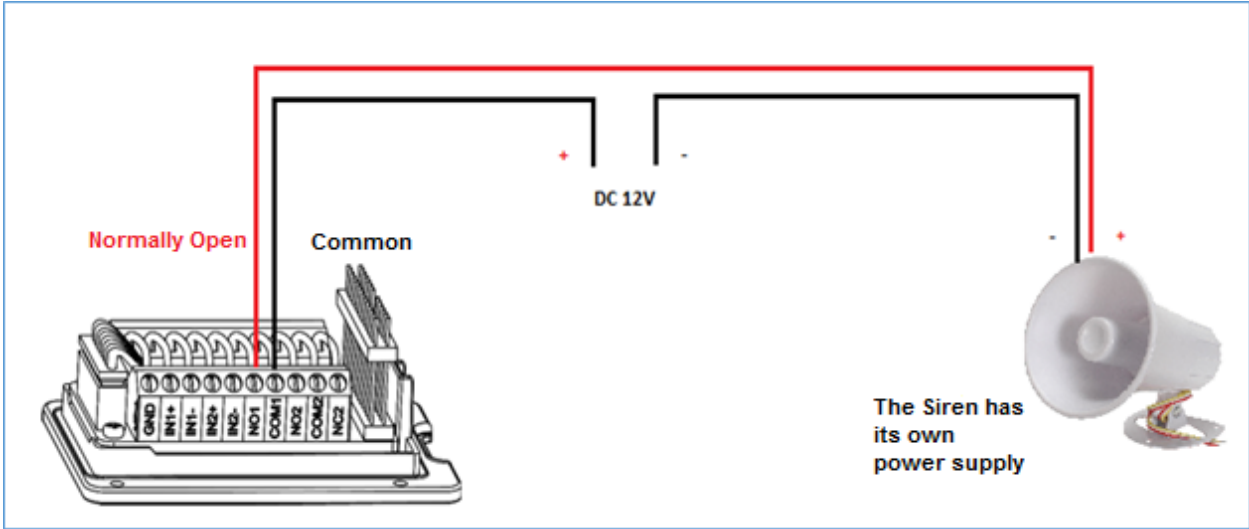


Figure 6: Alarm Output Example



## DETECT AND ACCESS TO THE GDS3710

The GDS3710 has an embedded Web server to respond to HTTP GET/POST requests. Embedded HTML pages allow user to configure the GDS3710 through Microsoft Internet Explorer, or Firefox and Chrome (plug-in from Grandstream required).

- **Download WebControl Plug-in from Grandstream website:**

[http://www.grandstream.com/products/tools/surveillance/webcontrl\\_plugin.zip](http://www.grandstream.com/products/tools/surveillance/webcontrl_plugin.zip)

For Apple platform OS-X, only MJPEG video codec supported currently.

**Notes:**

- Please temporarily disable 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.

### Connect the GDS3710 to network with DHCP Server (Recommended)

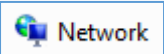
The GDS3710 by default has the DHCP client enabled, it will automatically get IP address from the network running DHCP server

#### Windows Platform

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

**1. UPnP**

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

- Find the “Network” icon  on the windows Desktop.
- 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 active in the network.

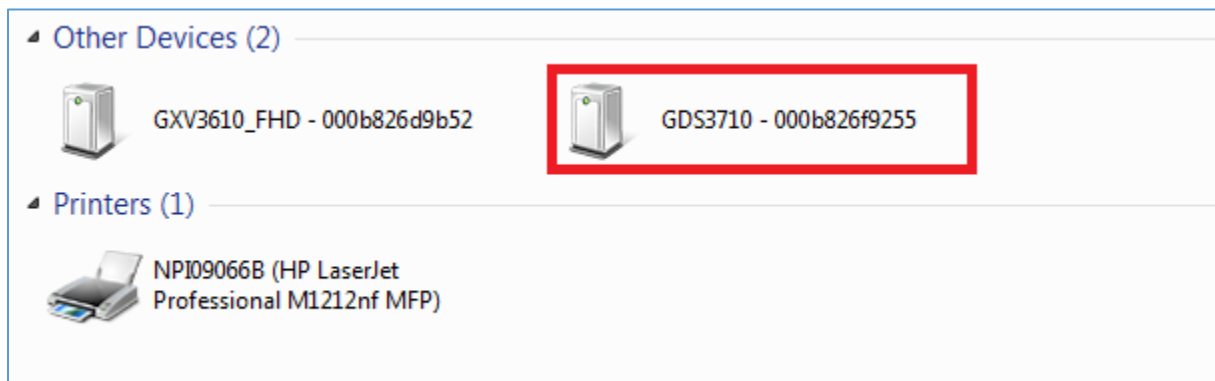


Figure 7: Detecting GDS3710 via UPnP

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





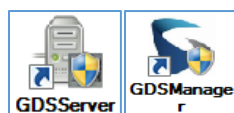
**Figure 8: GDS3710 Login Page**


- Once log in, the prompt message will display asking for plug-in installation.
- 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 click the stream number.

## 2. GDSManager Utility Tool

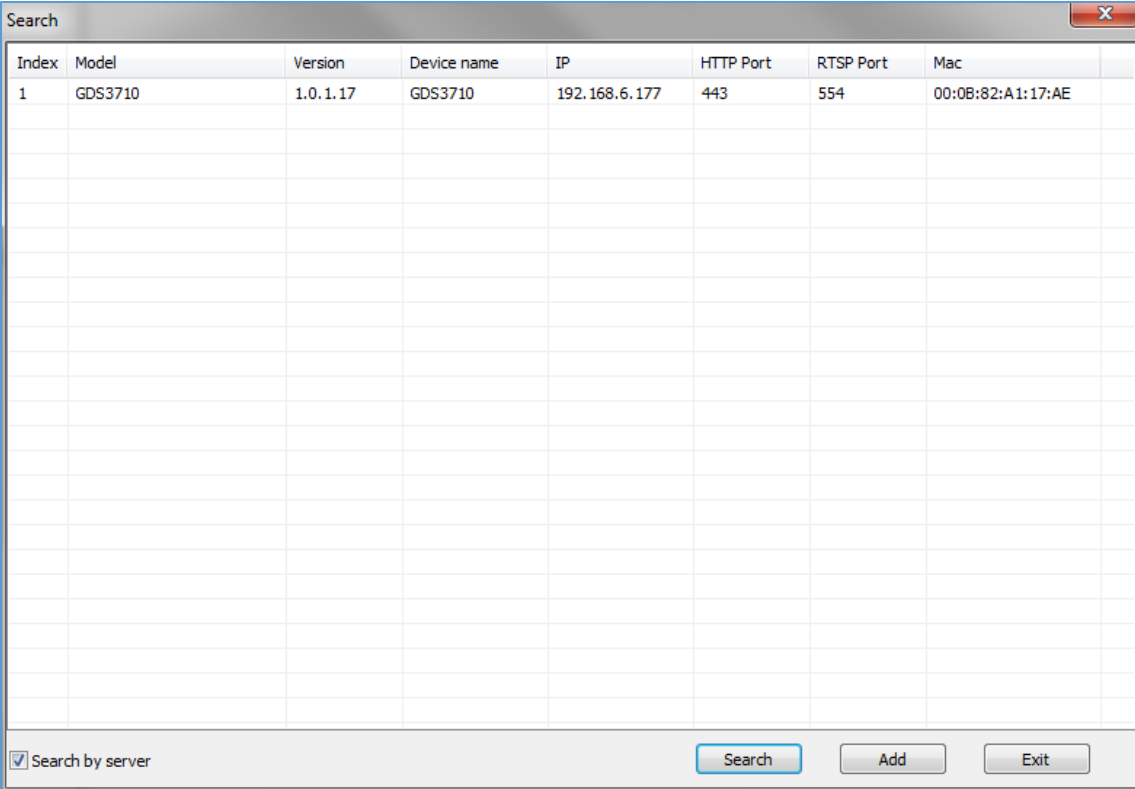
User can know the IP address assigned to the GDS3710 from DHCP server log or using the Grandstream GDS Manager after installing this free utility tool provided by Grandstream. Below user can find instructions for using “GDS Manager” utility tool:

1. Download the GDS Manager utility tool from Grandstream website:  
<http://www.grandstream.com/products/tools/surveillance/GDSManager.zip>
2. Install and run the Grandstream GDS Manager, a client/server architecture application, the server should be running first, then GDSManager (client) after:



3. Click on the  tab on the left side of “Function Navigation” panel to begin device detection
4. The detected devices will appear in the output field like below:





Index	Model	Version	Device name	IP	HTTP Port	RTSP Port	Mac
1	GDS3710	1.0.1.17	GDS3710	192.168.6.177	443	554	00:0B:82:A1:17:AE

Search by server  Search Add Exit

**Figure 9: GDSManager Search**

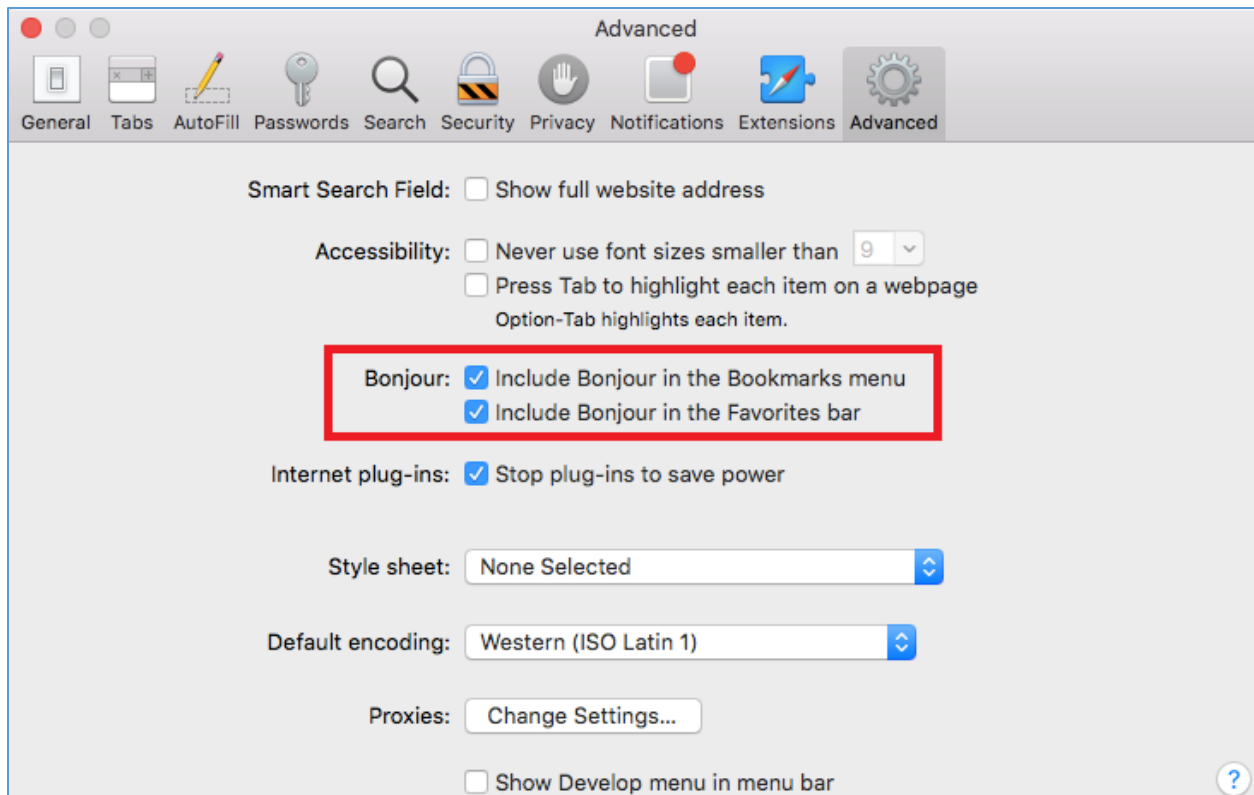
5. Double click the column of the detected GDS3710, the browser will automatically open and show the device's web configuration page.
6. The browser will ask for plug-in if not installed, please authorize the installation of the plug-in.
7. Enter the administrator user name and password to access the Web Configuration Interface, the default user name and password are both set to admin.
8. The plug-in can be download from the GDS3710 WebGUI under Live View.

### **Apple Platform**

For Apple users, please turn on Bonjour app on 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.





**Figure 10: 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.
4. Click the displayed GDS3710 to access to the configuration page of the GDS3710.

**Note:**

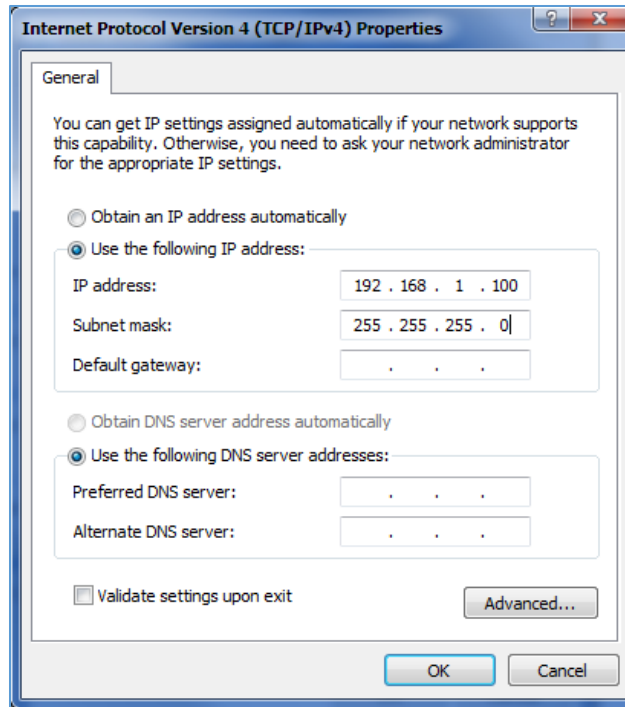
- The instructions provided above are based on Safari/OS-X, other Apple platform like iOS (iPhone/iPad) can use similar method.
- iPhone/iPad (iOS) users are recommended to use Applications in Apple Store.
- Free or Paid applications from Apple Store like “IP Cam Viewer” is suggested and verified working 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’s 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 offer time out (after 3 minutes), is 192.168.1.168
2. Connect the RJ45 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:





**Figure 11: Static IP on Windows**

4. Power on the GDS3710, using PoE injector or external DC power.
5. Start the browser when the network connection is up.
6. Enter 192.168.1.168 in the address bar of the browser, log in to the device with admin credentials. The default user name and password are both set to admin.
7. 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.
8. Access the Web Configuration Interface. IE will indicate that “This website wants to install the following add-on: GSViewerX.cab from Grandstream Networks Inc.”, allow the installation.
9. Firefox and Internet Explorer users need to download the plug-in from the GDS3710 WebGUI and install it in order to see the video

**Note:**

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

Once user know the IP address of the GDS he/she can access to it by copying the following link on a web browser:

**https://IP\_Address**



## ALARM IN/OUT ON THE GDS3710

The below diagram illustrate an example of peripheral connections for the GDS3710.

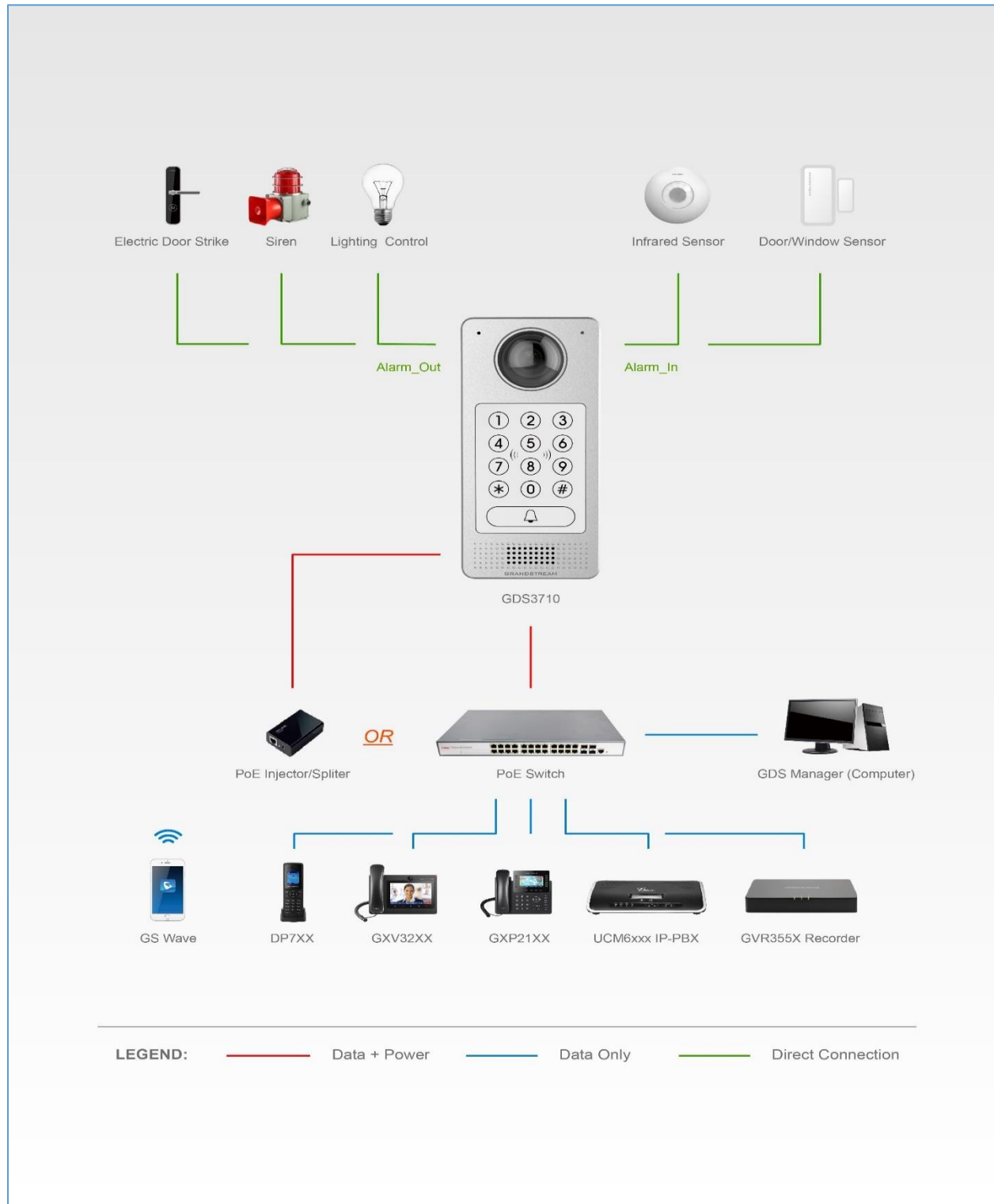


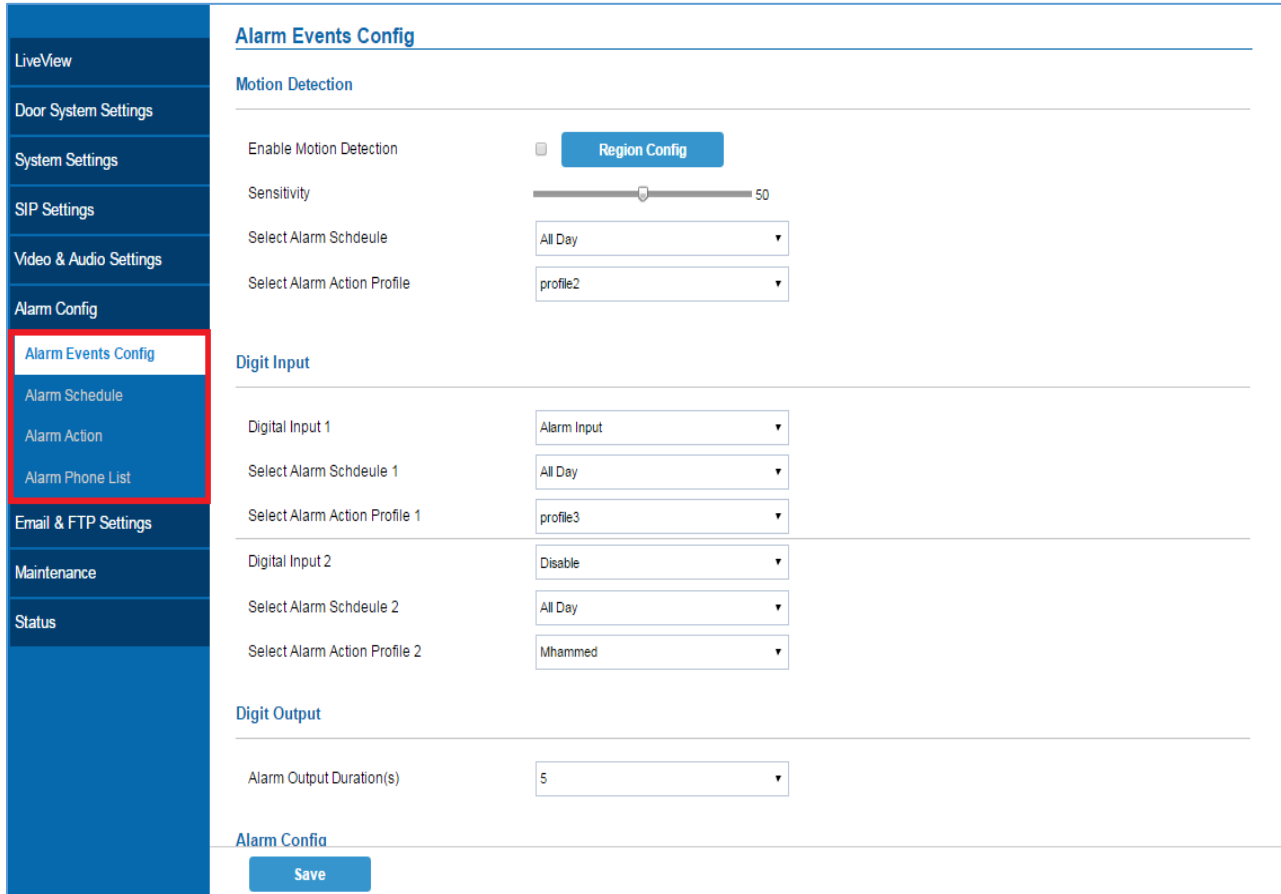
Figure 12: Peripheral Connections for GDS3710



## Configure Alarm In/Out on GDS3710

In order to configure the Alarm In/Out on the GDS3710, access the webGUI, after detecting the GDS3710 IP address using one of the methods previously mentioned, and log in as admin (the default user/pass for admin log in is admin/admin).

Navigate under “Alarm Config”, this tab contains four sub sections as shown below.



**Alarm Events Config**

**Motion Detection**

Enable Motion Detection  [Region Config](#)

Sensitivity

Select Alarm Schdeule

Select Alarm Action Profile

**Digit Input**

Digital Input 1

Select Alarm Schdeule 1

Select Alarm Action Profile 1

Digital Input 2

Select Alarm Schdeule 2

Select Alarm Action Profile 2

**Digit Output**

Alarm Output Duration(s)

**Alarm Config**

[Save](#)

Figure 13: Alarm Config Page Settings

## Alarm Schedule

This page specifies the configuration of Alarm Schedule. Schedule must be in place before the alarm take the related action.





LiveView

Door System Settings

System Settings

SIP Settings

Video & Audio Settings

Alarm Config

Alarm Events Config

Alarm Schedule

Alarm Action

Alarm Phone List

Email & FTP Settings


Maintenance

Status

### Alarm Schedule

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**Figure 14: Alarm Schedule**

There are 10 Period allowed to be configured, with time span specified by users. User can edit the alarm schedule by clicking  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.

### Alarm Action

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



No.	Alarm Action Profile Name	Detail	Edit
1	Mhammed	<input checked="" type="checkbox"/> Upload to Alarm Center <input checked="" type="checkbox"/> Voice Alarm to SIP Phone <input checked="" type="checkbox"/> Send Email <input checked="" type="checkbox"/> Sound Alarm <input checked="" type="checkbox"/> Alarm Output <input checked="" type="checkbox"/> Upload JPEG	<input type="button" value="Detail"/> <input type="button" value="Edit"/>
2	profile2		<input type="button" value="Detail"/> <input type="button" value="Edit"/>
3	profile3		<input type="button" value="Detail"/> <input type="button" value="Edit"/>
4	profile4		<input type="button" value="Detail"/> <input type="button" value="Edit"/>
5	profile5		<input type="button" value="Detail"/> <input type="button" value="Edit"/>
6	profile6		<input type="button" value="Detail"/> <input type="button" value="Edit"/>
7	profile7		<input type="button" value="Detail"/> <input type="button" value="Edit"/>
8	profile8		<input type="button" value="Detail"/> <input type="button" value="Edit"/>
9	profile9		<input type="button" value="Detail"/> <input type="button" value="Edit"/>
10	profile10		<input type="button" value="Detail"/> <input type="button" value="Edit"/>

**Figure 15: Alarm Action**

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

**Modify Alarm Action Profile** ✕

Alarm Action Profile Name

Upload to Alarm Center

Voice Alarm to SIP Phone

Send Email

Sound Alarm

Alarm Output

Upload JPEG

**Figure 16: Edit Alarm Action**

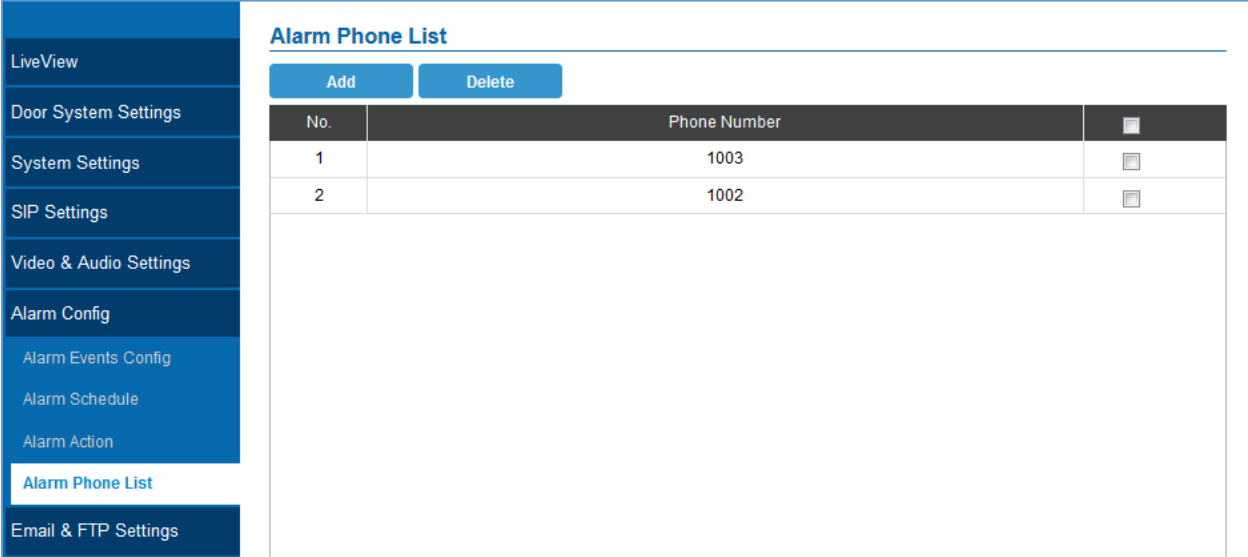
**Table 1: Alarm Actions**

<b>Upload To Alarm Center</b>	When checked, the alarm video will be transferred to Alarm Center.
<b>Voice Alarm To SIP Phone</b>	If SIP server or peer IP device configured, check this will allow the event to trigger alarm SIP call to pre-configured number.
<b>Send Email</b>	When checked, an email will be sent when the events is triggered to the pre-configured email account.
<b>Sound Alarm</b>	When selected alarm will be played from the GDS3710 Built-in Speaker.
<b>Alarm Output</b>	An alarm will be sent to the Alarm Output interface if this option is checked.
<b>Upload JPEG</b>	When checked, snapshots of the moment where the event is triggered will be uploaded to the FTP server.



## Alarm Phone List

This page allows user to configure the Alarm Phone List, which is phone numbers or extensions list that the GDS3710 will call out when event triggered (e.g.: doorbell pressed).



No.	Phone Number	<input checked="" type="checkbox"/>
1	1003	<input checked="" type="checkbox"/>
2	1002	<input checked="" type="checkbox"/>

**Figure 17: Alarm Phone List**

**Table 2: Alarm Phone List**

<b>Add</b>	Add new phone number to the alarm list.
<b>Delete</b>	Delete a number from the phone alarm list.

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.

## Alarm Events Config

This page allows users to configure what Events the GDS3710 can take to trigger the programmed action within the predefined schedule.



<ul style="list-style-type: none"> <li>LiveView</li> <li>Door System Settings</li> <li>System Settings</li> <li>SIP Settings</li> <li>Video &amp; Audio Settings</li> <li>Alarm Config           <ul style="list-style-type: none"> <li><b>Alarm Events Config</b></li> <li>Alarm Schedule</li> <li>Alarm Action</li> <li>Alarm Phone List</li> </ul> </li> <li>Email &amp; FTP Settings</li> <li>Maintenance</li> <li>Status</li> </ul>	<h3>Alarm Events Config</h3>
	<h4>Motion Detection</h4>
	Enable Motion Detection <input checked="" type="checkbox"/> <span style="float: right; border: 1px solid #007bff; padding: 2px 5px; color: white;">Region Config</span>
	Sensitivity <span style="float: right;">50</span>
	Select Alarm Schdeule <span style="float: right;">All Day ▼</span>
	Select Alarm Action Profile <span style="float: right;">profile3 ▼</span>
	<h4>Digit Input</h4>
	Digital Input 1 <span style="float: right;">Alarm Input ▼</span>
	Select Alarm Schdeule 1 <span style="float: right;">All Day ▼</span>
	Select Alarm Action Profile 1 <span style="float: right;">profile2 ▼</span>
	Digital Input 2 <span style="float: right;">Open Door ▼</span>
	Select Alarm Schdeule 2 <span style="float: right;">All Day ▼</span>
	Select Alarm Action Profile 2 <span style="float: right;">Mhammed ▼</span>
	<h4>Digit Output</h4>
Alarm Output Duration(s) <span style="float: right;">15 ▼</span>	
<h4>Alarm Config</h4>	
Enable Hostage Password <input checked="" type="checkbox"/>	
Hostage Password <span style="float: right;">*****</span>	
Select Alarm Action Profile <span style="float: right;">profile2 ▼</span>	
Enable Tamper Alarm <input checked="" type="checkbox"/>	
Select Alarm Action Profile <span style="float: right;">profile5 ▼</span>	
Enable Keypad Input Error Alarm <input checked="" type="checkbox"/>	
Select Alarm Action Profile <span style="float: right;">profile8 ▼</span>	

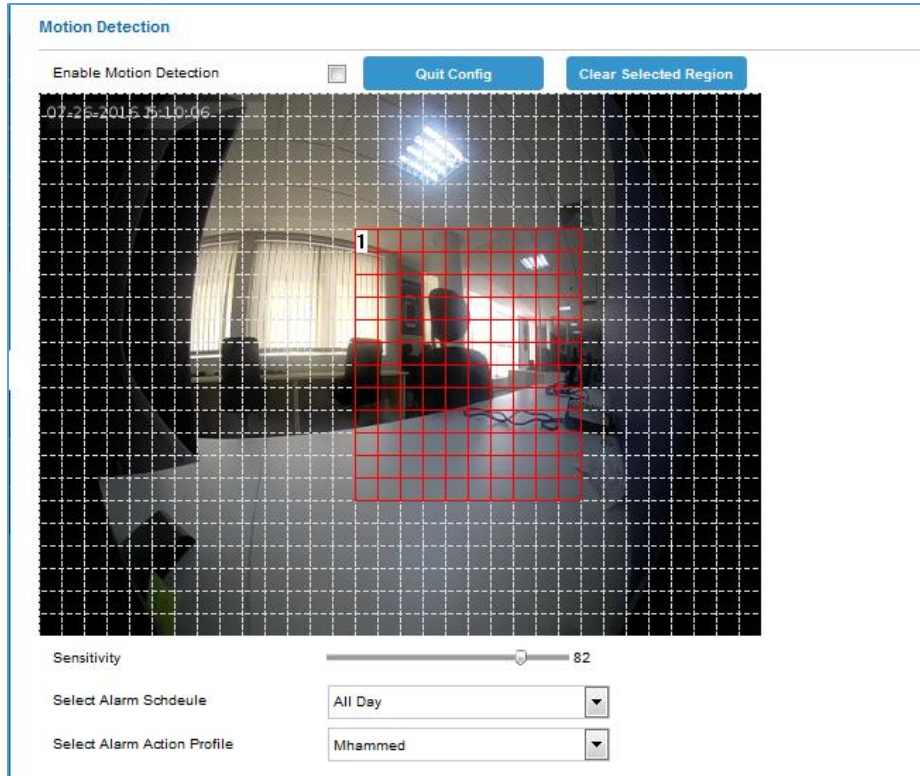
**Figure 18: Events Page**

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.



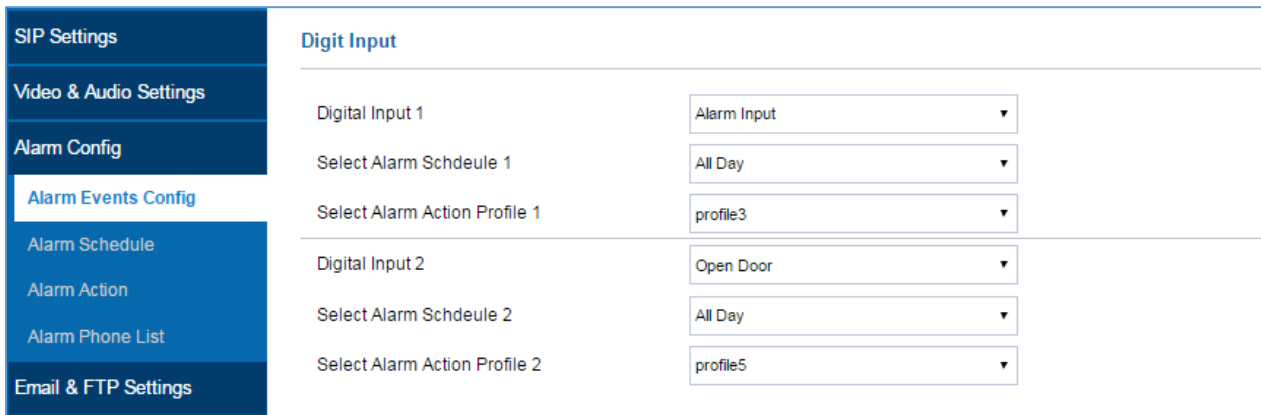


**Figure 19: Region Config**

**Table 3: Motion Detection**

<b>Enable Motion Detection</b>	Click on the check box to enable Motion Detection.
<b>Region Config</b>	Click to enter the Region Config menu.
<b>Quit Config</b>	Click to exit the Region Config menu.
<b>Clear Selected Region</b>	Select a zone on the screen then click on Clear to delete the region.
<b>Sensitivity</b>	Region sensitivity ( value between 0-100%).
<b>Select Alarm Schedule</b>	Select the Schedule programmed.
<b>Select Alarm Action Profile</b>	Select the programmed Alarm Action.

- **Digit Input**



**Figure 20: Digit Input**



**Table 4: Digit Input**

<b>Digit Input 1</b>	Select the Input method( alarm Input or Door Open).
<b>Select Alarm Schedule 1</b>	Select the predefined Schedule.
<b>Select Alarm Action Profile 1</b>	Select the predefined Alarm Action.
<b>Digit Input 2</b>	Select the Input method( alarm Input or Door Open).
<b>Select Alarm Schedule 2</b>	Select the predefined Schedule.
<b>Select Alarm Action Profile 2</b>	Select the predefined Alarm Action.

**Alarm Output Duration(s)** specifies the duration of the output alarm.

**Table 5: Alarm Config**

<b>Enable Hostage Password</b>	Enable/Disable Hostage password mode.
<b>Hostage password</b>	Set the password for the hostage mode.
<b>Select Alarm Action Profile</b>	Select the Alarm action to be taken when the hostage password is typed on the GDS3710 keypad. <b>Note:</b> No sound alarm will be triggered in this mode.
<b>Enable Tamper Alarm</b>	When activating this mode, GDS3710 will keep alarming until the alarm is dismissed.
<b>Select alarm Action Profile</b>	Select the type of alarms to be taken for the tamper alarm mode.
<b>Enable Keypad Input Error Alarm</b>	Enable/Disable the Input Error Alarm, GDS3710 will take alarm actions every 5 incorrect attempts.
<b>Select Alarm Profile</b>	Select the Alarm action to be taken after 5 incorrect attempts.

**Notes:**

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

“\* **HostagePassword #**”.

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

