

Grandstream Networks, Inc.

GXV3610_HD/GXV3610_FHD v2 Day/Night Fixed Dome HD IP Camera





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WELCOME

Thank you for purchasing Grand stream's GXV3610_HD/FHD v2 Day/Night Fixed Dome High Definition IP Camera, an innovative powerful weatherproof infrared next generation network camera. Its advanced ISP (Image Sensor Processor) powered with state-of-the-art auto-exposure/auto-white-balance algorithm and a high quality lens, ensures high fidelity video quality that matches digital still camera color grade in a wide range of light environments. It features cutting edge H.264 real-time video compression with excellent image clarity (720p for GXV3610_HD; 1080p for GXV3610_FHD) and color fidelity, industry leading SIP/VoIP for 2-way audio and video streaming to smartphones and video phones, integrated PoE, IR-CUT (mechanical) for day or night mode, and advanced security protection using strong encryption.

The GXV3610_HD/FHD v2 can be managed with GSurf Pro (Grand stream's intuitive FREE video management software that controls up to 72 cameras simultaneously), or grouped with GVR3550 Grandstream Network Video Recorder (NVR) via plug-n-play, as well as other ONVIF compliant video management systems. It also offers an advanced and flexible HTTP API and an SDK for easy integration with other surveillance systems.

Designed for both indoor and outdoor environment, the GXV3610_HD/FHD v2 Day/Night Fixed Dome HD IP camera is a new addition to the popular GXV3XXX series IP surveillance product family. It ensures ease of use, integration and deployment, with multilingual graphical user interface, provides powerful solution to professional surveillance applications.

Ideal application scenes for GXV3610_HD/FHD v2 are like office, store, elevator, and other small to median sized enclosed environments, although they can also be used in a similar open space.

This manual will help you to learn how to operate and manage your GXV3610_HD/FHD v2 Day/Night Fixed Dome HD IP camera and make the best use of it.



SAFETY COMPLIANCES

These instructions are intended to assist users with the operation of the GXV3610_HD/FHD v2 and to instruct on how to avoid dangerous situations or damage to the device.





Warning: May cause serious injury or death if any of the warnings below are neglected.

Caution: Equipment may be damaged if any of the following caution messages are neglected.



Warning:

Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with DC 12V according to the IEC60950-1 standard. Please refer to the technical specifications for more details. Do not use a third-party power adapter or power cord. When the device installed on the wall or ceiling, make sure that it is firmly attached.



Caution:

- Make sure that the power supply voltage is correct before using the camera.
- Do not drop the device or expose it to physical shock.
- Do not expose the device to temperatures outside the range of -20 °C to 50 °C when the device is in operation.
- Do not expose the device to damp/wet conditions or high electromagnetism radiation.
- To avoid heat accumulation, make sure that your operating environment has proper ventilation.
- Do not damage the warranty sticker.

A few parts (e.g. electrolytic capacitor) of the equipment shall be replaced regularly according to their average lifetime. The average lifetime varies from the differences between operating environments and usage history. Regular maintenance checks are recommended for all users. Please contact your dealer for more details.

Last Updated: 02/2015



FCC CAUTION

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

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

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

RF EXPOSURE INFORMATION (SAR)

This device is designed and manufactured not to be exceeded the emission limits for exposure to radio frequency RF energy set by the Federal Communications Commission of the United States. The exposure standard for wireless devices employing a unit of measurement is known as the Specific Absorption Rate (SAR), and the SAR limit set by FCC is 1.6 W/kg.

This device is complied with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1992, and has been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C. This device has been tested, and meets the FCC RF exposure guidelines when tested with the device directly contacted to the body. RF exposure compliance with anybody-worn accessory, which contains metal, was not tested and certified, and uses such body-worn accessory, should be avoided.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Hereby, Grandstream declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.



WARRANTY

If the GXV3610_HD/FHD v2 was purchased from a reseller, please contact the company where the device was purchased for replacement, repair or refund.

If the device was purchased directly from Grandstream, please contact our technical support team for a RMA (Return Materials Authorization) number before the product is returned.

Grandstream reserves the right to remedy warranty policy without prior notification.



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. Please do not use a different power adaptor with the GXV3610_HD/FHD v2 because this may cause damage to the products and void the manufacturer warranty.

• This document is subject to change without notice. The latest electronic version of this user manual is available for download at:

 $\frac{http://www.grandstream.com/products/surveillance/GXV3610hd/documents/GXV3610_HD/FHD}{v2_usermanual_english.pdf}$

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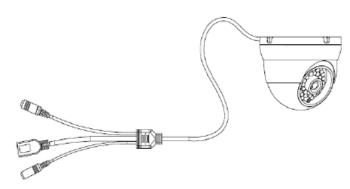


CONNECT YOUR GXV3610_HD/FHD v2

Equipment Package Contents

The GXV3610_HD/FHD v2 package contains:

- GXV3610_HD/FHD v2 IP Camera
- 12V DC Universal Power Adaptor
- Ethernet Cable
- 1 Hex Key and 4 Screws and Wall Anchors
- **Ouick Installation Guide**



1 x GXV3610_HD/FHD



1 x 12V Power Supply



1 x Ethernet Cable



4 x Wall Anchors





4 x Screws 1 x Hex Key



1 x Quick Start Guide 1 x GPL License



Connecting the GXV3610_HD/FHD v2

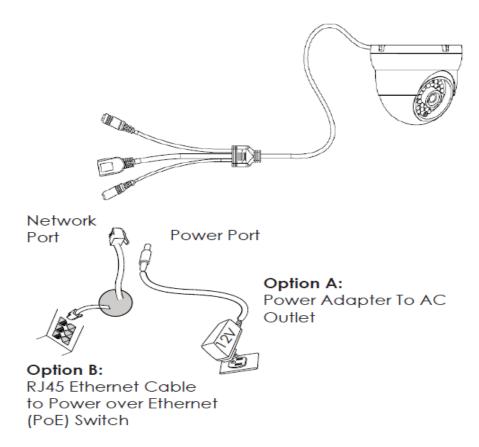
Using the Power Adapter as power supply

- Connect the RJ-45 Ethernet cable to the NETWORK port of the GXV3610_HD/FHD v2
- Connect the other end of the RJ-45 cable to your network (switch or router or PC)
- > Connect the power supply to the DC 12V power jack on the back of the GXV3610_HD/FHD v2

Using PoE as power supply

- Connect the RJ-45 Ethernet cable to the NETWORK port of GXV3610_HD/FHD v2
- Connect the other end of the RJ-45 cable to your PoE switch.
- ➤ PoE injector can be used if PoE switch is not available.

Please refer to following connection diagram to hook up the camera.



NOTE: Choose Option A if using the power supply; or choose Option B if using a Power over Ethernet (PoE) switch.



PRODUCT OVERVIEW

GXV3610_HD/FHD v2 Camera

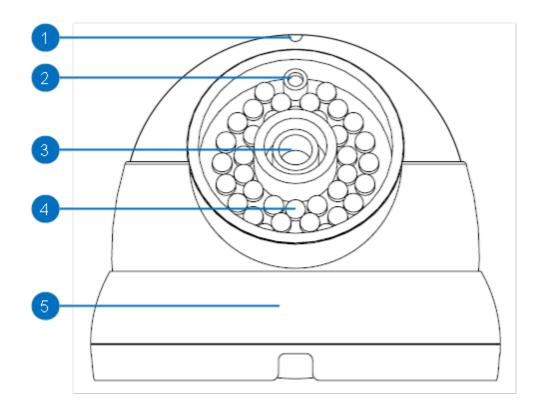


Figure 1: GXV3610_HD/FHD v2 Illustration

1. Microphone GXV3610_HD/FHD v2 Microphone 2. Light Sensor for IR-Cut Light Sensor for mechanical IR-Cut switching

1/3"CMOS (1.2M for HD/3.1M for FHD) Sensor and Lens 3. Lens

4. IR Light Array Infrared Light Array

5. Mounting Bracket Mounting Brackets



GXV3610_HD/FHD v2 Specifications

Model v2	GXV3610_HD	GXV3610_FHD
Video Compression	H.264, MJPEG	
Image Sensor Resolution	Scan CMOS, 1280H x 960V	1/3", 3.1 Megapixel Progressive Scan CMOS, 2048H x 1536V
Image Sensor Sensitivity	Day/Night mode, exceptionally low noise, low light levers. Shutter: 1/10000 – 1/30 second	
Focal Length	3.6mm	
Aperture	F1.8	
Field Angle (FOV)	100.2°(D) x 77°(H) x 54°(V)	
IR Cut Filter	Yes, Mechanical	
Day & Night Mode	IR LED covering up to 10 meter,	with full software control
Minimum Illumination	0.05 Lux, 0 lux with IR LED On	
Responsivity	5.48V/lux-sec (550nm)	1.9V/lux-sec (550nm)
Supported Maximum Video	1280x960 (25fps)	2048x1536 (15fps)
Resolution and Frame Rate	1280x720 (30fps)	1920x1080 (30fps)
Video Bit Rate	32 Kbps ~ 8 Mbps, multi-rate for	preview & recording
Audio Input	Built-in Microphone	
Audio Output	3.5mm Line-Out (600Ω, 0.707 Vrms)	
Audio Compression	G.711u/a, AAC	
Embedded Analytics	Motion Detection (up to 16 target	areas)
Pre-/post-alarm Recording	Yes, 8MB Yes, 3MB	
Snapshots	Triggered upon events, send via email/FTP	
Network Protocol	TCP/UDP/IP, RTP/RTCP, RTSP, DHCP, DDNS, HTTP, HTTPS, SMTP, FTP, NTP	
SIP/VoIP Support	Yes	
Time-Lapse Photography	Yes	
Privacy Mask Support	Yes, 4 Zones	
Power over Ethernet (PoE)	IEEE 802.3af, Class 0; 10M/100M Auto-sensing,	
	2KV Lightning Surge Protection	
External Cable Connection	Network: RJ45, 10M/100M auto-sensing	
	3.5mm Line-Out	
	Power Input (12VDC/1A)	
Dimensions (D x H)	120mm (D) x 100mm (H)	
Weight	0.7kg	
Temperature / Humidity	Operating: -20°C ~ +50°C (-4°F ~ 122°F),	
	10-90% RH (non-condensing)	
	Storage: -30°C ~ +60°C (-22°F ~ 140°F)	
Power Adapter	Output: 12VDC/1A; Input: 100-240VAC, 50-60Hz	
Casing	IP66 compliant weather-proof metal case	
Compliance	FCC Part 15,Subpart B Class B; EN 55022 Class B,	
	EN 61000-3-2, EN 61000-3-3, EN 55024, EN 60950-1;	
	C-tick AS/NZS CISPR 22, CISPR24; IP66	

Table 1: GXV3610_HD/FHD v2 Technical Specifications



INSTALLATION GUIDE

Minimum Recommended Computer System Requirement

To install GXV3610_HD/FHD v2, you have to have a computer, PC recommend. The minimum recommended PC system requirement listed below:

- Windows XP, Windows Vista, Windows 7 and Windows 8
- CPU: Intel Pentium 4 or higher, 2 GHz
- RAM: 2 GB (4 GB recommended for larger systems)
- Support for DirectX 8.0 and above.

Configure the GXV3610_HD/FHD v2 via Web Browser

The GXV3610_HD/FHD v2 has embedded Web server to respond to HTTP GET/POST requests. Embedded HTML pages allow user to configure the IP camera through Microsoft Internet Explorer (7.0 or above), 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

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

NOTE:

- ➤ 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 Camera to network with DHCP server (Recommended)

The GXV3610_HD/FHD v2 by default enabled as DHCP client, it will automatically get IP address from the network with DHCP server running.

WINDOWS PLATFORM:

There are two ways for Windows user to get access to the IP Camera easily:

A. UPnP

By default, the GXV3610_HD/FHD v2 has the UPnP feature turned ON. For customers using Window network with UPnP turned on (most SOHO router support UPnP), it is very easy to access the IP camera:

- Find the "Network" icon at Windows Desktop.
- Click the icon to get into the "Network" and the IP cameras will list as "Other Devices" shown like below. Refresh the pages if nothing displayed. Otherwise, the UPnP may not active in the network.

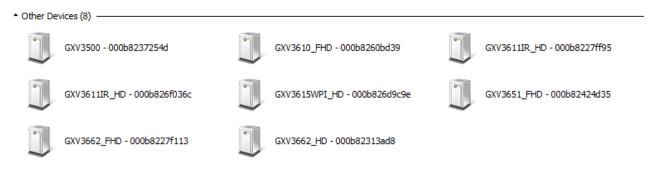


Figure 2: Windows "Network" showing GXV3610_HD/FHD v2 as "Other Devices" via UPnP

- Click the displayed icon of related IP camera, the default browser (e.g.: Firefox or Chrome) will open and connect directly to the camera's webpage, prompt message will display asking for plug-in installation.
- Disable security or antivirus software, download the plug-in, close browser and install the plug-in, open the browser again, the embedded video will be displayed if clicking the icon of the related IP Camera.

B. "GS_Search" Utility Tool

User can know the IP address assigned to the camera from DHCP server log or using the Grandstream GS_Search tool. Following is the instruction for using "GS_Search" utility tool:

- Download the GS_Search tool from Grandstream website: http://www.grandstream.com/products/tools/surveillance/GS_Search.zip
- 2. Run the Grandstream GS_Search tool by double click the unzipped "GS_Search.exe".
- 3. Click on the Search button to begin device detection
- 4. The detected devices will appear in the output field like below

Last Updated: 02/2015



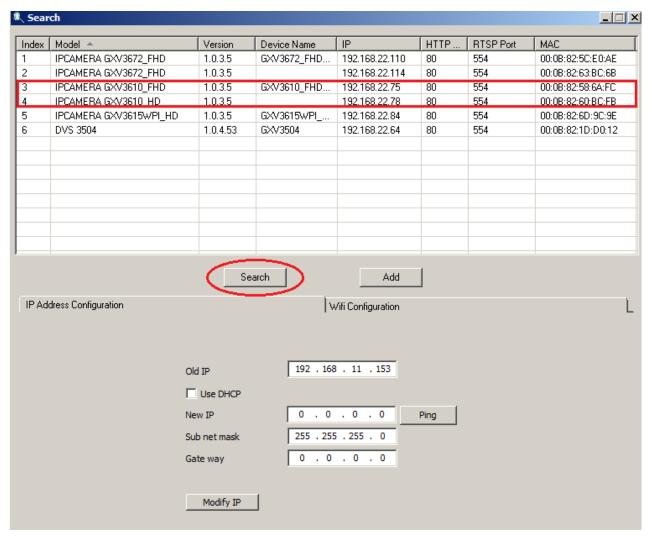


Figure 3: "GS_Search" Result Page of GXV3610_HD/FHD v2

- 5. Double click the column of the detected camera, the browser will automatically open and link to the device IP and the web configuration page.
- 6. The browser will ask for plug-in or ActiveX if not installed, otherwise it will get to Home page and start to show the video captured by the camera (by default the camera enabled anonymous access)
- 7. Click "Configuration" icon, the browser will ask credentials to authorize configuration.
- 8. Enter the administrator user name and password to access the Web Configuration Interface, the default user name and password are both set to *admin*.
- 9. In step 6, browser will indicate that "This website wants to install the following add-on: GSViewerX.cab from Grandstream Networks Inc." Please allow the installation.
- 10. The plug-in can be download here: http://www.grandstream.com/products/tools/surveillance/webcontrl_plugin.zip



APPLE PLATFORM:

For Apple users, please turn on Bonjour of Safari to find and access the GXV3610 HD/FHD v2.

- 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.

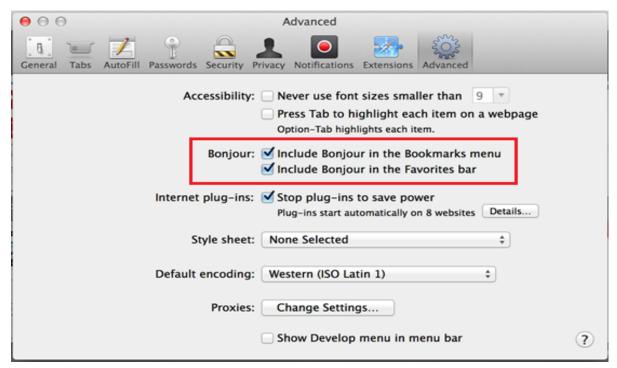


Figure 4-1: Apple Safari "Bonjour" Setting page to display GXV3610_HD/FHD v2

3) Bonjour will now display embedded at Safari. Select "Bonjour" pull-down menu and select "Webpages", the related IP Camera like GXV3610_HD/FHD v2 will be there.

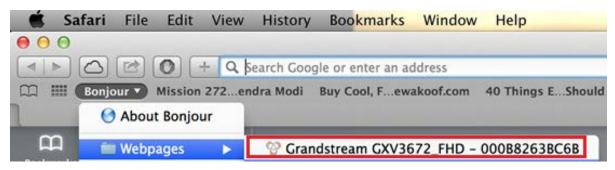


Figure 4-2: Apple Safari "Bonjour" Setting page to display GXV3610_HD/FHD v2

4) Click the displayed camera to access to the configuration page of the camera.



5) To see the video, user has to change the video codec from default H.264 to MJPEG.



NOTE:

The instruction given here 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" are suggested and verified working with Grandstream IP Cameras like GXV3610_HD/FHD v2.
- Apple Store applications like "IP Cam Viewer" will support H.264 video codec.

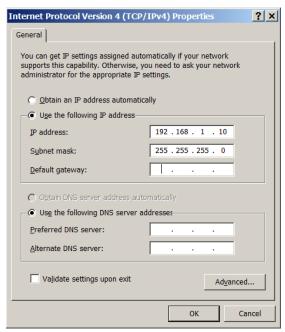


Connect to the Camera using Static IP

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

The default IP, if no DHCP server; or DHCP offer time out (3 minutes), is 192.168.1.168

- 1. Connect the computer RJ-45 via an Ethernet cable directly to the IP camera GXV3610_HD/FHD v2.
- 2. Configure the computer using Static IP: 192.168.1.XXX (1<XXX<255, but NOT 168) and configure the "Subnet mask" to "255.255.255.0". Leave the "Default Gateway" to "Blank" like below:



- 3. Power on the GXV3610_HD/FHD v2.
- 4. Start the browser when the network connection is up.
- 5. Enter 192.168.1.168 in the address bar of the browser.
- 6. The browser will ask for plug-in or ActiveX if not installed, otherwise it will get to Home page and start to show the video captured by the camera (by default the camera enabled anonymous access)
- 7. Click "Configuration", the browser will ask credentials to authorize configuration.
- 8. Enter the administrator user name and password to access the Web Configuration Interface, the default user name and password are both set to *admin*.
- 9. In step 6, IE will indicate that "This website wants to install the following add-on: GSViewerX.cab from Grandstream Networks Inc.", allow the installation.
- 10. Firefox, Chrome user need to download and install the plug-in to see the video, the plug-in is here: http://www.grandstream.com/products/tools/surveillance/webcontrl plugin.zip

NOTE:

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



GXV3610 HD/FHD v2 Application Scenarios

GXV3610_HD/FHD v2 is very versatile infrared IP Camera, it can be used in a lot of scenarios.

LAN w/o Internet

For multi-room or a bigger space, multiple GXV3610_HD/FHD v2 might be required. User can establish a local area network using PoE switch.

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

Equipment List:

- 1) Several GXV3610_HD/FHD v2
- 2) Ethernet cables
- 3) Switch (Static IP required to configure to IP Cameras)
- 4) PoE Switch (Optional, better solution)

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

- 5) Router (if DHCP configured than static IP is not required although still recommended)
- 6) Broadband Internet Access (FiOS, Cable or DSL)
- 7) iPhone or Android phone. (Application like "IP Cam Viewer")

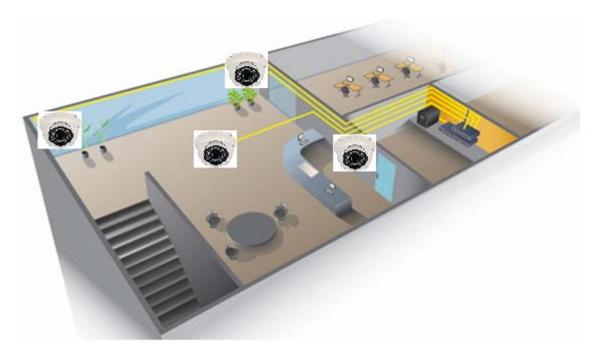


Figure 5-1: GXV3610_HD/FHD v2 Working in LAN



LAN with Internet

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

Equipment List:

- 1) Several GXV3610_HD/FHD v2
- 2) GVR3550 NVR
- 3) Ethernet cables
- 4) Switch (PoE Switch recommended)
- 5) Router
- 6) Broadband Internet Access (FiOS, Cable or DSL)
- 7) iPhone or Android phone. (Application like "IP Cam Viewer")
- 8) GSurf_Pro Remote Access (Optional)

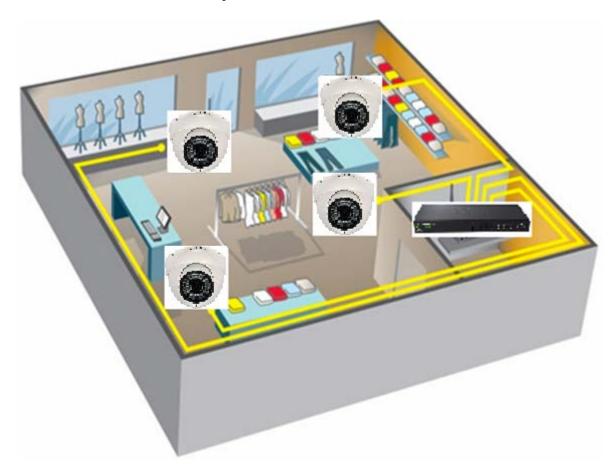


Figure 5-2: GXV3610_HD/FHD v2 Working with GVR3550 and/or GSurf_Pro with Internet



GXV3610_HD/FHD v2 Application Peripheral Connection

Below is the illustration of GXV3610_HD/FHD v2 peripheral connections for related application.



Figure 6: Application Peripheral Connection for GXV3610_HD/FHD v2

NOTE:

➤ Audio Output (Amplified Speaker) using 3.5mm interface and must match below impedance parameter:

Audio Output	3.5mm Line-Out (600Ω, 0.707 Vrms)
	0.00.000

Frandstream Video Phone can work with GXV3610_HD/FHD v2 via either Peer IP (LAN) or SIP extension (WAN). Peer to Peer (or Direct IP) works only at LAN using static IP; SIP extension requires related SIP server/proxy provided and configured.



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GXV3610 HD/FHD v2 Home Web Page

The Home Page of GXV3610_HD/FHD v2 shown as Figure 1:

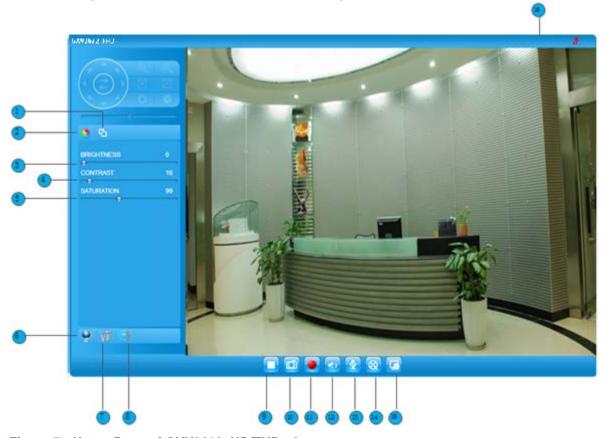


Figure 7: Home Page of GXV3610 HD/FHD v2

1. Real Size/Window Size icon: Click to switch between real resolution size and embedded window size video. Zoom in or Zoom out during ePTZ operation (Default not Applicable).

2. ZOOM:

3. BRIGHTNESS bar: Adjust the image or video brightness. 4. CONTRAST bar: Adjust the image or video contrast.

5. SATURATION bar: Adjust the image or video saturation.

Click to switch webpage language. Language icon

(Current support: Chinese, English and Russian) Click to enter "Configuration Page" to configure the parameters of Configuration icon:

GXV3610_HD/FHD v2 (Administration privilege required). Default Video Parameter icon: Click to reset video parameters (Brightness, Contrast, Saturation) to default.

Stop/Play Video icon: Click to Stop and Play the embedded live video.

Click to capture and save a snapshot of current displayed video frame. 10. Capture (Snapshot) icon Default directory: C:\Capture, using date stamp as folder name. 11. Record icon: Click to Start/Stop record of current video stream into a file.

Default directory: C:\Record

12. Listen On/Off icon: Toggle to listen/stop audio from the camera's microphone

13. Talk On/Off icon: Toggle to talk to camera's speaker (computer microphone required)

Click to playback the recorded video file. 14. Playback:

15. Local Configuration: Click to configure the file path of snapshot and recorded video files.

Also adjust the video delay or smoothness.

16. Motion Detection Alarm Indicator: If (configured) motion detection alarm triggered, the indicator will flash in *red*.

Click the indicator icon to turn off the alarm indication.

configured). Click the indicator icon to turn off the alarm indication.



GXV3610_HD/FHD v2 Configuration & Language Page

- When click the "Configuration" tab, web page will link to page to configure the related parameters of the GXV3610_HD/FHD v2.
- There are two big categories of settings: Basic Settings and Advanced Settings. Details will be illustrated in the later Chapter.
- When click the "Language" tab, supported languages will be displayed in Figure 2. Click to select the related webpage display language.



Figure 8: Web Language Switch

• Currently firmware only support: English (default), Simplified Chinese and Russian.



BASIC SETTINGS EXPLANATION

System Settings Page

This page allow user to configure the system settings of GXV3610 HD/FHD v2.

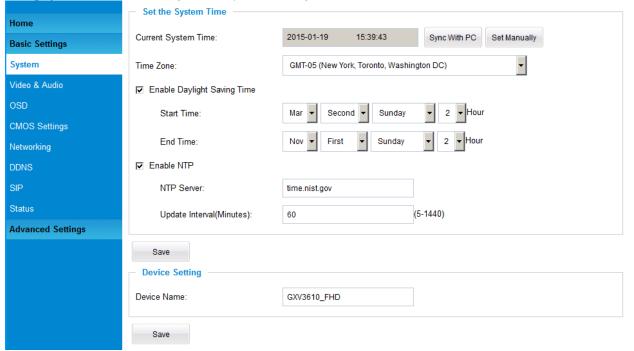


Figure 9: System Settings Page

NTP:

Current System Time: Display time current system is running at

> • Sync with PC: Click to synchronize current time with computer.

o Set Manually: Click to manually set the current time and date.

Select from pull down menu the time zone unit located Time Zone:

o Enable DST: Configure Day Light Saving Time

Enable and configure NTP server and update interval.

Set the name of the camera which will be shown in the result of Device Name:

"Search Tool" of GSurf_Pro VMS program.

NOTE:

Save button has to be clicked to save all the changes made to the device.



Video & Audio Setting Page

This page allows user to configure the video and audio related settings.

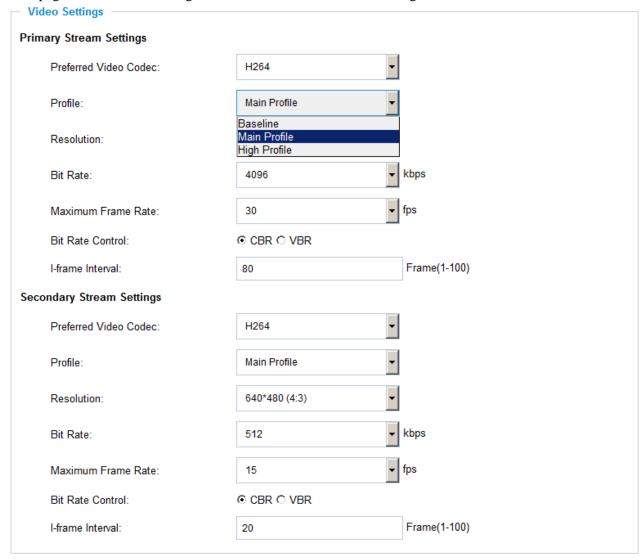


Figure 10-1: Video & Audio Settings Page

Video Settings

Primary Stream Settings:

MJPEG and H.264 supported, H.264 recommended. o Preferred Video Codec: o Profile: H.264 profile selection. Default is "Main Profile." o Resolution: The resolution in pixels used at video image

o Bit Rate: video bit rate or bandwidth used

o Maximum Frame Rate: Maximum frame rate used (more data if big frame used)

o <u>Bit Rate Control:</u> Constantly bit rate, or variable bit rate

o <u>Image Quality:</u> Image quality used when Variable Bit Rate used I-frame Interval: I-frame interval (suggested 2~3 times of frame rate)

Secondary Stream Settings: Same as primary stream.

Last Updated: 02/2015



NOTE:

- ➤ H.264 suggested if camera needs to be viewed via Internet.
- ➤ The definition of Baseline, Main Profile and High profile of H.264 please refer to: http://en.wikipedia.org/wiki/H.264/MPEG-4_AVC
- > If MJPEG selected, reduce max. frame rate to min. value to save bandwidth and get better image
- For Grandstream IP Camera provides two video streams, user can use them with flexibility. For example, the high-resolution stream for local recording; another low or high resolution for remote monitoring; or vice versa depending application scenarios.
- ➤ Use below link to calculate bandwidth and storage before installation http://www.grandstream.com/support/tools/bandwidth-storage-calc

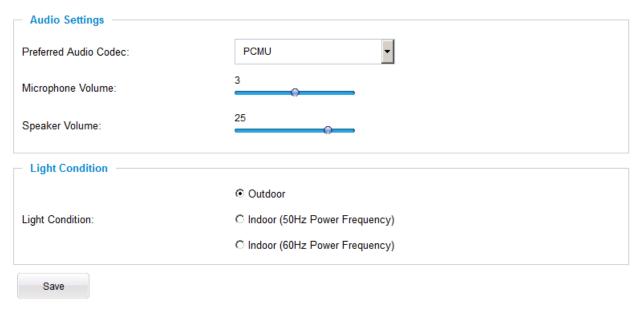


Figure 10-2: Video & Audio Settings Page

• Audio Settings:

o <u>Preferred Audio Codec:</u> PCMU, PCMA, AAC supported. Audio also can be disabled.

Slide to adjust microphone gain.
Speaker Volume: Slide to adjust the speaker volume connected.

5 Speaker volume. Since to adjust the speaker volume connected.

• Light Condition: Select correct light condition for the scene monitored: Outdoor, Indoor 50Hz power frequency (Europe, China, etc.) or 60Hz power frequency (US, Japan, etc.). Wrong setting will affect

image quality under fluorescence light condition.



OSD Setting Page



Figure 11: OSD Settings Page

- On Screen Display (OSD):
 - o OSD Text:
 - o OSD Position:
 - o OSD Date Format:
 - o Display Time:
 - Display Text:

Display time stamp and text on the video screen.

Inputted text (to identify the camera) shown on the screen. Show the OSD in either top or bottom position on screen.

OSD Date format, choose based on user preference.

When checked, time will be displayed inside the video image

When checked, inputted text will display on video image



CMOS Settings Page

This page allows user to adjust the CMOS parameters:

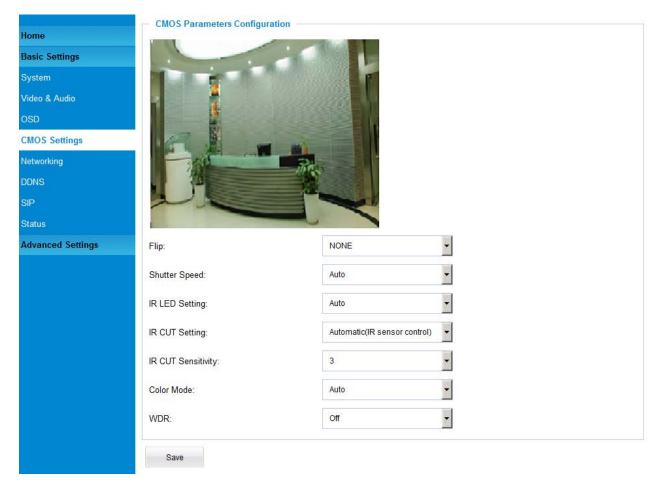


Figure 12: CMOS Settings Page

•	Flip:	Pull down to choose video flip, either vertically or horizontal or both.
•	Shutter Speed:	Camera Shutter Speed. There are 10 options, with Auto, 1/30 (slowest), 1/60,
		1/125, 1/250, 1/500, 1/1000, 1/2000, 1/5000 and 1/10000 (fastest)
•	IR LED Setting:	Auto, or manually turn ON or turn OFF the LED light. Default Auto
		Manually On/Off LED light applied to save power if camera powered by battery.
•	IR CUT Setting:	Manual, Automatic (IR Sensor control) or Time Schedule Mode (configurable
		Daytime Schedule for user's flexibility) to switch the mechanical IR_CUT.
•	IR CUT Sensitivity:	Sensitivity of IR Sensor to trigger the IR CUT; 5 levels total and 5 highest sensitivity.
•	Color Mode:	Camera Color Mode. There are three options: Color, Black/White, Auto (Default).
•	<i>WDR</i>	Digital WDR or eWDR, On/Off switch, default is Off. (FHD Models Only)



NOTE:

- ➤ Auto option recommended for Shutter Speed, IR CUT Setting and Color Mode.
- > WDR feature has to be used where appropriate: It has been developed specifically for scenarios with simultaneously light and dark areas in the field or vision, not for solely low light scenes or bright light scenes.
- You should first consider where and what you want to monitor and to what level of detail and consider the lighting conditions present, because this will effect where you should place the camera for the best results
- If the camera also needs to operate at night, it may be beneficial to disable the WDR function (if there is no high contrasting light) in order to maximize the camera's low light performance



Networking Setting Page

This page allows user to configure network related parameters:

Dynamically Assigned via DH	CP	
Statically Configured as:		
IP Address:	10.30.48.86	
Subnet Mask:	255.255.255.0	
Default Gateway:	10.30.48.1	
DNS Configuration Obtain DNS Server Address A Use the Following DNS Server	ACCURACY 53	
	ACCURACY 53	
Obtain DNS Server Address A Use the Following DNS Server Primary DNS Server:	r Address:	
Obtain DNS Server Address A Use the Following DNS Serve	r Address:	
Obtain DNS Server Address A Use the Following DNS Server Primary DNS Server:	r Address:	

Figure 13: Networking Setting Page

• IP Address Configuration:

o Dynamically Associated via DHCP:

o <u>Statically Configured as:</u>

• DNS Configuration:

• *HTTP*:

Camera IP address configuration

Default setting, DHCP server assign IP to camera.

Static IP address configuration

DNS server IP. Must be configured if using static IP.

Web access TCP port, default 80.

NOTE:

- ➤ If camera behind SOHO router with port forwarding configuration for remote access, static IP or static DHCP has to be used to avoid IP address change after router reboot.
- > TCP port above 5000 suggested if 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 not likely blocked.
- In addition to HTTP port, RTSP port is also required to configure via port forward, so remote party can view the video stream.
- ➤ If revise the default TCP port 80 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, the HTTP port changed to 8088, the RTSP port now should be 10088, both TCP ports 8088 and 10088 should be configured for port forwarding in order for remote camera access: 8088 for web portal, 10088 for video streaming.



DDNS Settings Page

This page allows user to configure dynamic DNS related parameters:



Figure 14: DDNS Setting Page

• *DDNS Active*: Enable DDNS by check this field.

• DDNS ISP Type: Select the DDSN service provider from the pull-down menu list

• Self-Define DDNS Address: Input the self-defined DDNS address

• Site Name: DDNS site name

• *DDNS Account:* DDNS account name

• *DDNS Password*: DDNS password

• STUN Server: Stun server FQDN or IP. If device behind a non-symmetric router,

STUN server can help to penetrate & resolve NAT issue.



SIP Setting Page

This page allows user to configure SIP related parameters.

GXV3610_HD/FHD v2 can be configured as SIP endpoint to call out when alarm trigged, or allow permitted number to call in to check the audio/video if Grandstream IP videophone used.

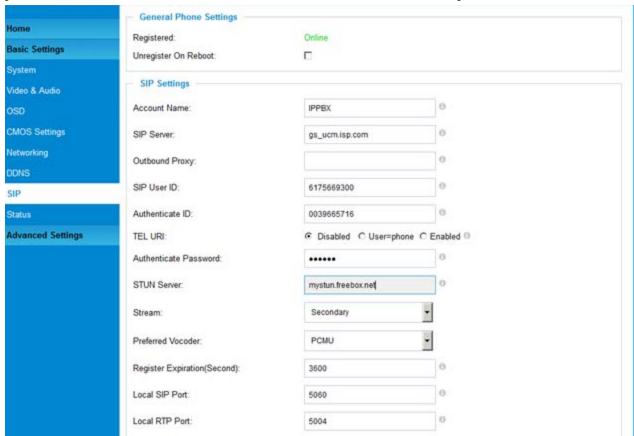


Figure 15-1: SIP Setting Page

SIP registration status. Display "Online" in Green, "Offline" in Red. Registered:

If checked and SIP server support, reboot camera will unbind all Unregistered on Reboot:

registered end points using this SIP account.

Account Name: SIP account name used for self-identification.

SIP Server: FQDN or IP of SIP server from VoIP service provider

IP or FODN of Outbound proxy server, helps penetrate NAT/Firewall Outbound Proxy:

SIP User ID: SIP username, or telephone number from ITSP

Authenticate ID: Authenticate ID used by SIP proxy

URI or Phone selection by ITSP, see webpage help tips " " TEL URI:

Authenticate Password: Authenticate password used by SIP proxy STUN Server: STUN server used to resolve NAT if have

Which stream used for SIP call. Default 2nd stream, strongly recommended Steam:

due to bandwidth and data involved at video call.

Preferred Vocoder: Audio codec used for SIP call, only G.711 A or U supported. Registration Expiration: Registration expiration time, default 3600 seconds

Local SIP Port: Local SIP port, default 5060

Local RTP Port: Local RTP port for media, default 5004

Last Updated: 02/2015



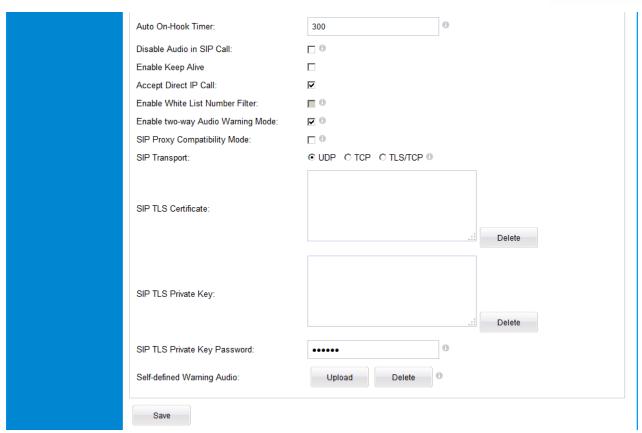


Figure 15-2: SIP Setting Page

• Auto On-Hook Timer: Timer (seconds) for automatic disconnecting the call. Default 300.

Disable Audio in SIP Call:
 Enable Keep Alive:
 Disable or turn off audio of camera when SIP call established.
 Checked to help NAT resolution, sending alive packets.

• Accept Direct IP Call: Check to accept peer-to-peer IP call in LAN w/o SIP server.

• Enable White List Number Filter: Check to allow only white list number to call in, for security.

Enable two-way Audio Warning: Check to enable two-way audio when call established (Default)
 SIP Proxy Compatibility Mode: Check to enable more proxy compatibility with cost of bandwidth,

the SIP call will send both audio and video no matter what.

SIP transport: SIP transport protocol, UDP as default.

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: The password for SIP TLS private Key.

Self-define Warning Audio: Upload self-defined alarm warning message audio.

(Format: G.711 .WAV format, File Size <= 300KB, Linear PCM,

8KHz Sampling Rate, 16bit, Single Channel)





Figure 15-3: SIP Setting Page

• *Phone List for Alarm Out*): Callee or call receiver's number when alarm call trigged.

• White List (Allowed Caller): Phone numbers allowed calling into the camera.

NOTE:

> GXV3610_HD/FHD v2 requires external amplified speakers connected to support audio calls



Status Page

This page shows the GXV3610_HD/FHD v2 operation status:



Figure 16: Status Page

NOTE:

- > IR CUT Status will display "Daytime" or "Night" depending on current IR CUT position
- ▶ When SIP account registered, the status will display "Online" in Green.
- When SIP account unregistered, the status will display "Offline" in Red, as below.

SIP Registered:	Offline
-----------------	---------



ADVANCED SETTINGS EXPLANATION

User Management Page

This page allows user to do user management:

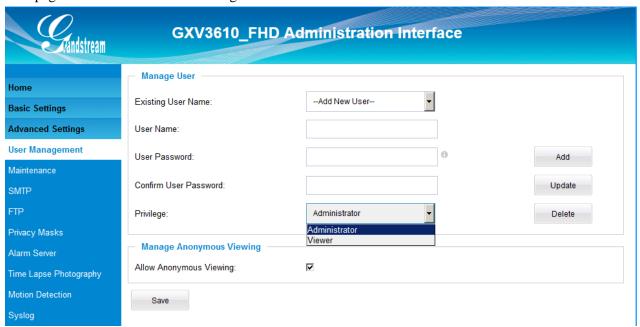


Figure 17: User Management Page

• Existing User Name: Allow revise existing user or add new user

User Name: The name of user need to be revised
 User Password: New password if revise password

• *Confirm User Password:* Re-enter the new password for verification

Privilege: Choose user privilege

• Allow Anonymous Viewing: When checked, no security enhanced. Any person can view the

camera if knowing the IP or FQDN of the camera, but can NOT

change anything, just view ONLY.



Maintenance Page

This page allows user to maintain the camera:

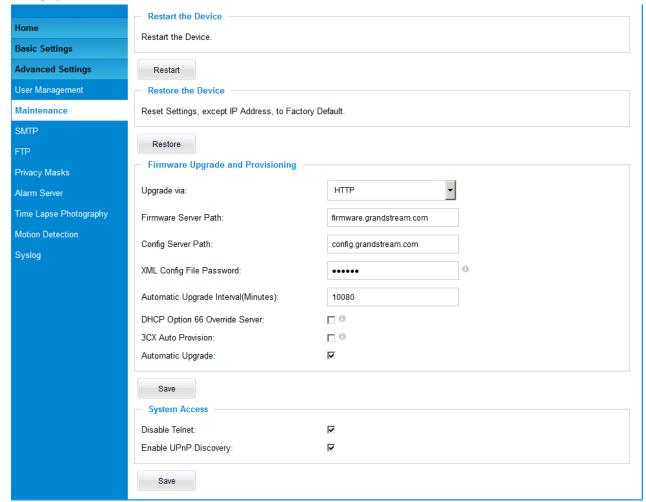


Figure 18: Maintenance Page

• *Restart:* When clicked, the camera will reboot or restart (soft reboot).

• **Restore:** When clicked, the camera will be reset to factory default, wiping out all

the configurations (except IP address)

• *Upgrade via*: Upgrade firmware via TFTP, HTTP or HTTPS

• Firmware Server Path: Server path holding the firmware

• Config Server Path: Server path holding the configuration file (auto provisioning)

XML Config File Password:

Password for encrypt the XML based configuration file

• Automatic Upgrade Interval (Minutes):

Time interval for automatic upgrade, default 10080

• DHCP Option 66 Override Server:

Enabled to redirect firmware/configuration server path.

3CX Auto Provision: Enabled to use 3CX as SIP server to auto provisioning the device.
 Automatic Upgrade: Checked to enable automatic firmware upgrade and provisioning.



System Access

• *Disable Telnet:* Check to disable Telnet to enhance security.

• Enable UPnP Discovery: Used for UPnP automatic discovery of the device in related network

environment. Default enabled.

NOTE:

➤ Only XML based automatic provisioning is supported by GXV3610_HD/FHD v2.



This page intentionally left blank



SMTP Setting Page (Email Alarm)

This page allows user to configure email client to send out email when alarm trigged:

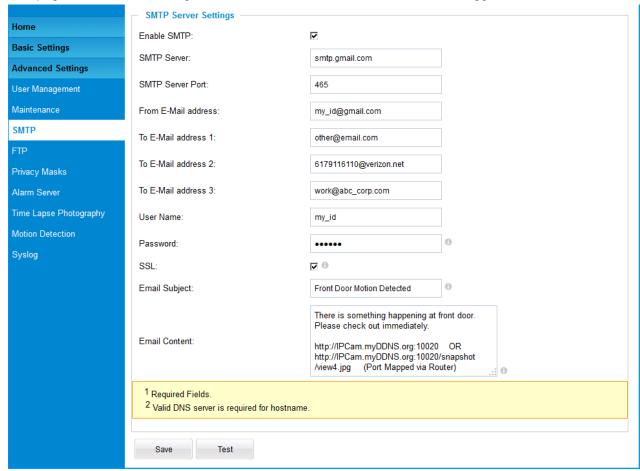


Figure 19-1: SMTP Setting Page

Enable SMTP: When checked, email client is enabled.
 SMTP Server: SMTP Email Server IP or Domain Name
 SMTP Server Port: Port number used by server to send email

• From Email address: The email address of alarm email sending from, usually client email ID

• To E-Mail address: The email address to receive the alarmed email, total 3 included.

User Name: Email client User ID Password: Email client password

SSL: Check if the SMTP email server requires SSL
 Email Subject: Customizable email subject for user convenience
 Email Content: Customizable email body for user convenience





Figure 19-2: SMTP Setting Page

NOTE:

- > Click "Save" to save the email configuration information.
- > Click "Test" after configuration, if setting is correct, a test email will send out and "Test successful!" orange bar will display like below



FTP Settings Page (Upload Alarm)

This page allows user to configure FTP parameters to upload the alarm or video recording:

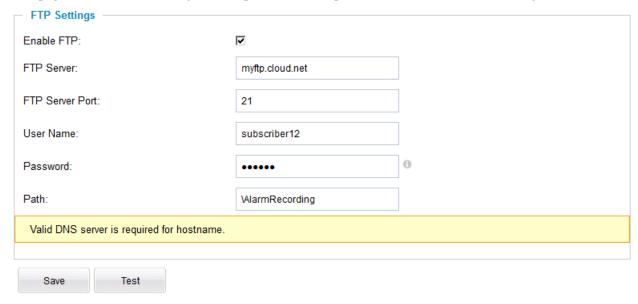


Figure 20: FTP Setting Page

Enable FTP: When checked, built-in FTP client is enabled.
 FTP Server: IP or Domain name of FTP site or server

• FTP Server Port: TCP port for FTP server, default port number 21

• User Name: FTP server User ID

• *Password:* FTP server user password

• *Path:* Path in the server where upload files are stored.

NOTE:

- ➤ Click "Save" to save the FTP configuration information.
- > Click "Test" after configuration, if setting is correct, a test FTP operation will be performed and "Test successful!" yellow bar will display if the operation is successful.

Test successful!



Privacy Masks

This page allows user to configure privacy masks up to 4 different regions.

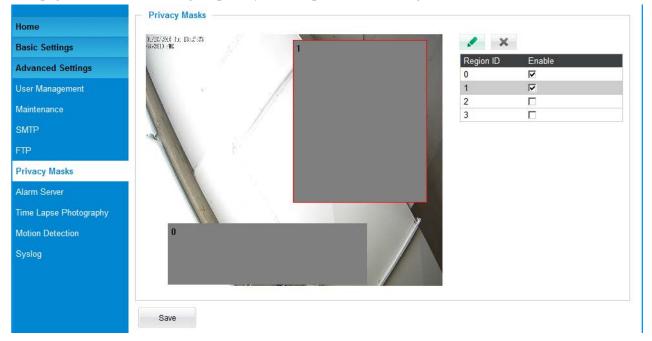


Figure 21: Privacy Masks Configuration Page

Select different region requiring privacy mask, configure and save the configuration. When privacy mask enabled, the video at related region will be masked by black color and no video displayed inside that mask.



Alarm Server Settings Page (Upload Alarm to supported VMS or HTTP Server)

This page allows user to configure alarm HTTP server to upload alarms (Upload Alarms to VMS platform supported or HTTP Server for processing)

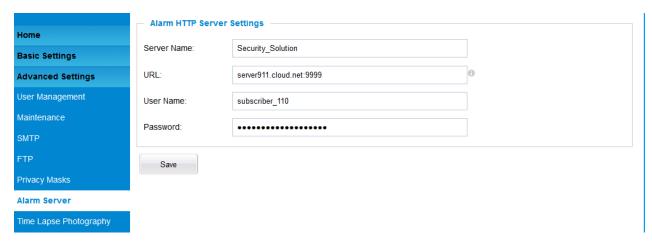


Figure 22: Alarm HTTP Server Setting Page

• Server Name: The name of HTTP server or VMS system

• *URL*: URL of the Server

User Name: User ID from that ServerPassword: Password for that User ID

NOTE:

> Grandstream provide HTTP API to help third party companies by using HTTP server or VMS to develop further solutions for their customers.

http://www.grandstream.com/products/surveillance/general/documents/grandstream_http_api.pdf

➤ Grandstream IP Camera and Encoder (include GXV3610_HD/FHD v2) are ONVIF certified.



Time Lapse Photography

This page allows user to configure Time Lapse Photography (or period snapshot).

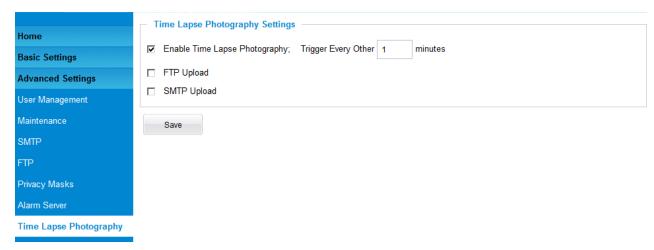


Figure 23: Time Lapse Photography Configuration Page

• Enable Time Lapse Photography:

Check to enable this feature. User can configure the timer or duration of

the triggering moment, minimum value is 1 minute.

• *FTP Upload:* Enabled will allow device to upload the snapshots to FTP server.

The FTP server is configured at "FTP" server page illustrate before.

• *SMTP Upload:* Enabled will allow device to email the snapshots via email server.

The email server is configured at "SMTP" configuration page.

Click "Save" button to save the changes made and the feature will take effect immediately.



Motion Detection

This page allows user to configure motion detection to trigger alarms:

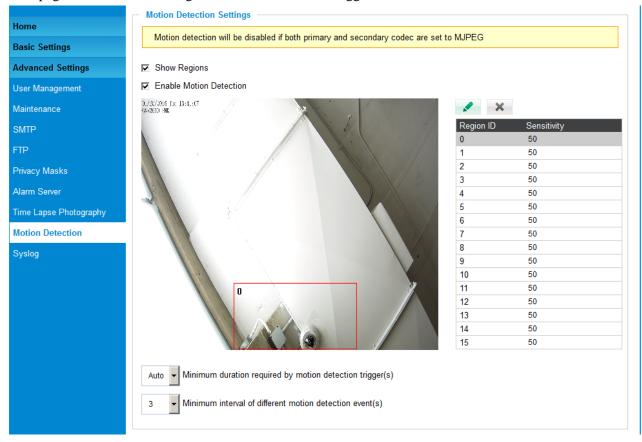


Figure 24-1: Motion Detection Configuration Page

• *Show Regions:* When checked, Motion Detection region with number will be

displayed as a white rectangle in the screen. When "Edit" clicked,

the Rectangle will become Red, as shown in Figure 16-1.

• Enable Motion Detection: When checked, Motion Detection is enabled.

There are total 16 regions be available for MD configuration, from

region 0 to 15.

Select and highlight the number of region to configure the MD

and the sensitivity.

• *Minimum duration required by motion detection trigger(s):*

Min. period (in second) to identify as a valid MD event. Default is Auto, max. value is 5 second. The setting helps to reduce false

alarm based on user's scenarios.

• *Minimum interval of different motion detection event(s):*

Min. time frame (in second) to identify as different MD events if there are constant motions. Max. value is 60 seconds or 1 minute.

This setting helps accuracy of MD triggered recording.



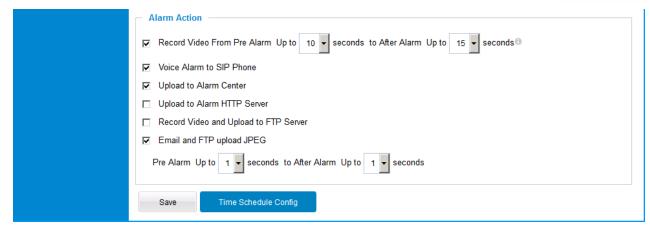


Figure 24-2: Motion Detection Configuration Page

Alarm Action:

• Record Video From Pre Alarm Up to XXX seconds to After Alarm Up to XXX seconds:

This setting to allow configure pre/post alarm video for

applications to utilize. MJPEG is NOT supported for this feature.

• Voice Alarm to SIP Phone: If SIP server or peer IP device configured, check this will allow

MD event to trigger alarm SIP call to pre-configured number.

• Alarm Output: Select will allow MD to send alarm to Alarm Output interface.

• Upload to Alarm Center: When checked, the alarm video will be transferred to Alarm

Center, like Grandstream free GSurf _Pro VMS software.

When peering with GXV3500 Decoder for Remote Alarm Out,

this field has to be selected.

• *Upload to Alarm Center:* When checked MD alarm will be sent to 3rd party Alarm Center.

• Upload to Alarm HTTP Server: When checked MD alarm will be send to 3rd path HTTP server via

Grandstream HTTP API.

Record Video and Upload to FTP Server:

When checked and FTP server configured, the recorded video will

be send to the configured FTP server.

• Email and FTP upload JPEG:

When checked, snapshots of trigger moment will be emailed to pre-configured email account and also uploaded to FTP server if

configured. The pre/post alarm snapshot numbers can be

configured based on time (in second) to meet user's requirement.



Time Schedule Config:

Click the "Time Schedule Config" will bring up following interface to allow user to configure the Time Schedule for the Motion Detection to take action.

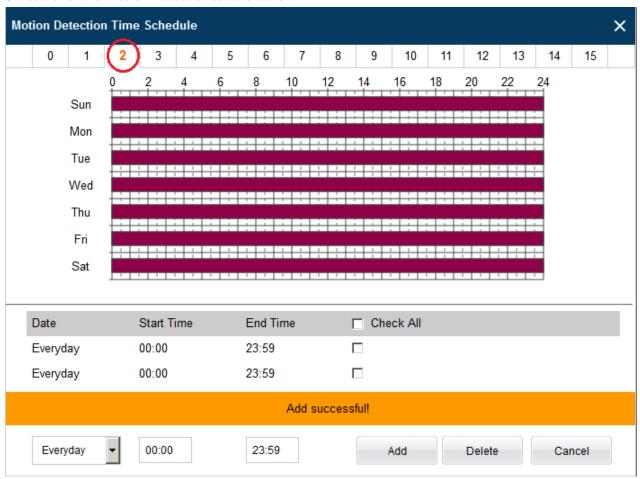


Figure 24-3: Motion Detection Schedule Configuration Page

• As shown in Figure 15-2, user can configure the Motion Detection Region with related Start and Stop time to control the motion detection operation.

NOTE:

- ➤ User has to configure the "Time Schedule"; otherwise the Motion Detection Alarm will not work if there is no time schedule configured.
- Motion Detction NOT supported when using MJPEG as video codec.
- ➤ Grandstream free GSurf_Pro VMS software can be downloaded from: http://www.grandstream.com/products/tools/surveillance/gsurf_pro.zip



Remot Alarm_Out peering with GXV3500 Decoder

The GXV3610 series IP camea does not have built-in Alarm_In interface, but when peering with Grandstream GXV3500 encoder/decoder, the GXV3500's built-in Alarm_Out interface (running at decoder mode) can behave as remote Alarm_Out of GXV3610 series IP Camera.

The benefit of such peering is the Alarm_Out circuit is not physically wired into the IP Camera anymore, with the Ethernet network behaving as wiring, the Alarm_Out circuit can now be located to convenient places where GXV3500 located. This means IP Camera can be in location A, while the Alarm_Out can be in location B (A and B can be in the same or different places as long as A and B can reach each other via network/internet). This will help a lot of users to monitor site remotely and take appropriate action, because there are situations where location A with cameras but actions have to be taken from location B. With Grandstream's solution, traditional A and B limitation by the calbe length is now disappear.

The configuration of such remote Alarm Out is very simple:

GXV3610 Side:

Same configuration as previous Motion Dection configuration, just make sure "Upload to Alarm Center" checked and selected:

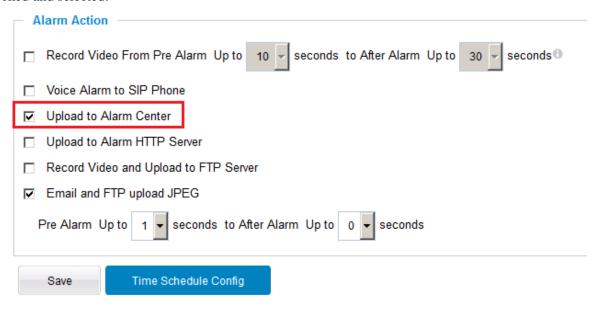


Figure 24-4: Remote Alarm_Out IP Camera Configuration

GXV3500 (Decode Mode) Side:

GXV3500 has to be running as Decode when functioning as remote Alarm_Out of the peering IP Camera. The configuration is as below:

- 1) Input the 2nd stream (H.264 used) as the RTSP URL, with correct credentials, as below.
- 2) Only ONE stream (currently decoding stream) the Motion Detection can use the GXV3500 built-in Alarm_Out interface if there are multiple RTSP URL configured in the GXV3500.

Last Updated: 02/2015



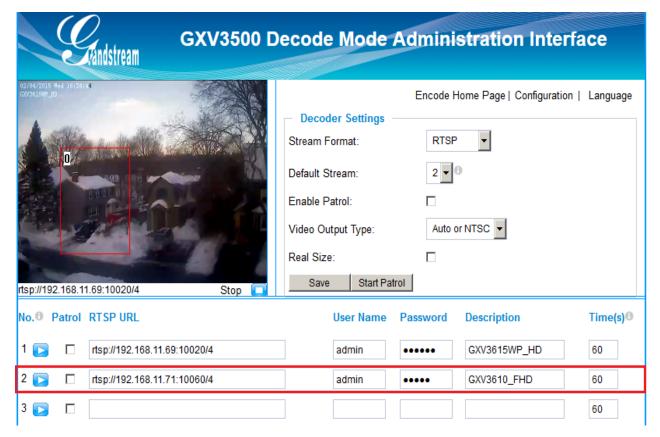


Figure 24-5: Remote Alarm Out peering GXV3500 Configuration

NOTE:

- SXV3500 is designed to work with analogue camera, therefore resolution more than D1 NOT supported, this is why 2nd stream decoding (usually less than D1) used as peering for remote Alarm_Out. The RSTP setting will be: **rtsp://IPCamera:Port/4** (4 is 2nd stream of GXV3610)
- ≥ 2nd stream also consume less bandwidth therefore good for internet transmission.
- ➤ H.264 video codec has to be selected because Motion Detection not supported via MJPEG.
- All Grandstream IP Cameras without built-in Alarm_Out interface can peer with GXV3500 (Decoder Mode) built-in Alarm_Out interface for Motion Detection Remote Alarm_Out.

Alarm_Out duration can be configured at "System" setting page of GXV3500 Decoder. See below the figure. When Alarm_Out taking action, the webpage will show the related action.

For example, below the "Digital Output Duration" is selected as "15 seconds" so the Alarm_Out will act for 15 seconds before revert back to previous state. In below case, the default is circuit "Open", when Motion Detection alarm triggered, the circuit state changed to "Close", as illustrated below for 15 seconds and then switch back to prevoius "Open" state.



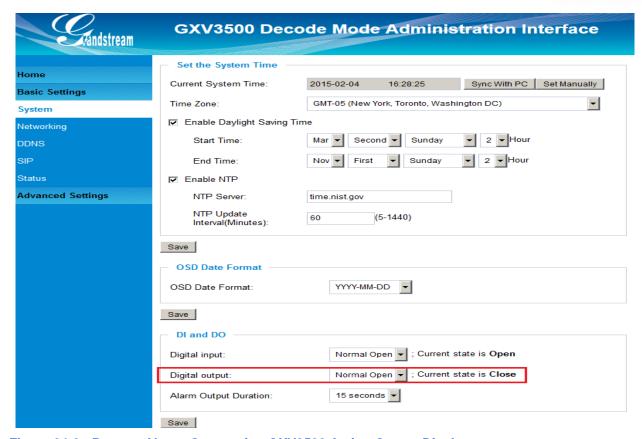


Figure 24-6: Remote Alarm_Out peering GXV3500 Action Output Display

Unlike the Alarm_Out interface of Grandstream IP Camera (which using relay switch), the GXV3500 Alarm_Out is using photocoupler circuit. If connecting to a multimeter, you will see the Ohm changed from unlimited to serveral hundred Ohms depending on GXV3500 HW version.

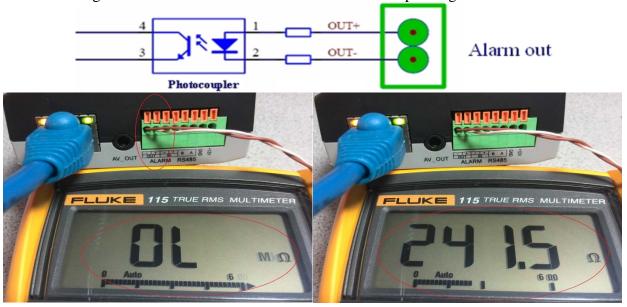


Figure 24-7: Peering GXV3500 Decoder Alarm_Out Circuit



Syslog Settings Page (Troubleshooting Help)

This page allows user to enable the Syslog to help troubleshooting problems.

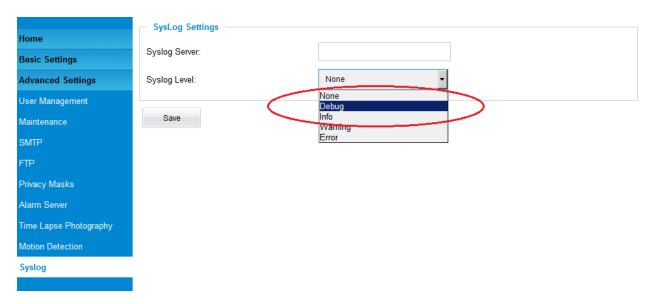


Figure 25: Syslog Setting Page

• Syslog Server: Syslog server IP or Domain Name

• Syslog Level: Lever of syslog message sent to the syslog server: None, Debug, Info, Warning, Error.



Software Upgrade

This page allows user to configure firmware upgrade:

Software upgrade can be done via TFTP, HTTP or HTTPS. The corresponding configuration settings are in the ADVANCED SETTINGS configuration page.

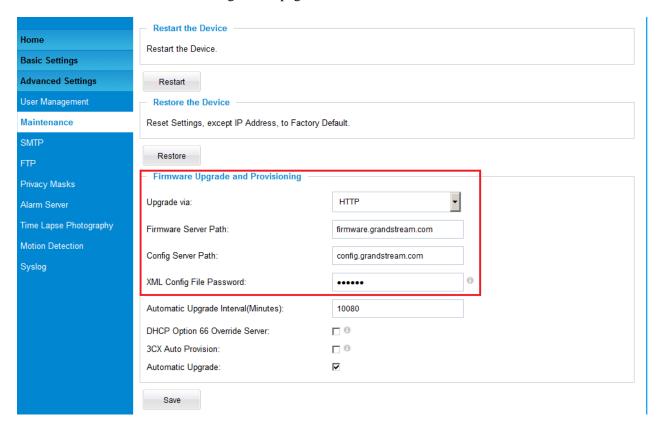


Figure 26: Firmware Upgrade and Provisioning

NOTE:

- > Grandstream recommends end-user use the Grandstream HTTP server:
 - firmware.grandstream.com
- For large companies, we recommend to maintain their own TFTP/HTTP/HTTPS server for upgrade and provisioning procedures.



Instructions for local firmware upgrade using TFTP server:

- 1. Unzip the file and put all of them under the root directory of the TFTP server.
- 2. Load the TFTP server from the PC and make sure the device in the same LAN segment.
- 3. Please go to File -> Configure -> Security to change the TFTP server's default setting from "Receive Only" to "Transmit Only" for the firmware upgrade.
- 4. Start the TFTP server.
- 5. In webGUI of IP camera, configure the Firmware Server Path with the IP address of the PC.
- 6. Update the change and reboot the unit

End users can also choose to download the free HTTP server from http://httpd.apache.org/ or use Microsoft IIS web server.

Configuration File Download

Grandstream SIP Device can be configured via Web Interface as well as via Configuration File through TFTP or HTTP/HTTPS. "Config Server Path" is the TFTP or HTTP/HTTPS server path for configuration file. It needs to be set to a valid URL, either in FQDN or IP address format. The "Config Server Path" can be same or different from the "Firmware Server Path".

A configuration parameter is associated with each particular field in the web configuration page. A parameter consists of a Capital letter P and 1 to 3 (Could be extended to 4 in the future) digit numeric numbers. i.e., P2 is associated with "Admin Password" in the ADVANCED SETTINGS page. For a detailed parameter list, please refer to the corresponding firmware release configuration template.

When Grandstream Device boots up or reboots, it will issue request for configuration file named "cfgxxxxxxxxxxxxxxxx" is the MAC address of the device, i.e., "cfg000b820102ab.xml". The configuration file name should be in lower cases.

Currently GXV3610_HD/FHD v2 only support XML configuration.



RESTORE FACTORY DEFAULT SETTING

WARNING!

Restoring the Factory Default Setting will DELETE all configuration information of the camera. Please BACKUP or PRINT out all the settings before approach to following steps. Grandstream will not take any responsibility if you lose all the parameters of setting or cannot connect to your VoIP service provider.

Reset from Web Interface

This page allows user to configure dynamic network related parameters:

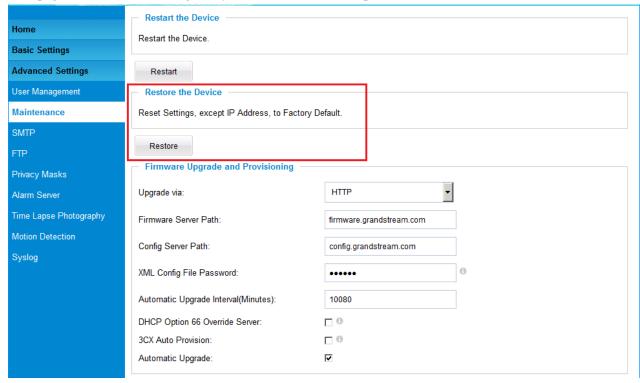


Figure 27: Factory Reset from Web Interface



IP SURVEILLANCE FAQ

1. What is the default IP address of the GXV3610_HD/FHD v2?

The default IP configuration is DHCP or 192.168.1.168 after booting up 5 minutes.

2. Why can I not view the live video stream in Microsoft Internet Explorer?

Please double check whether the Grandstream Plug-in/Active-X is installed correctly. Once you log into the GXV3610_HD/FHD v2 web interface, Internet Explorer will indicate that this website wants to install to following add-on: "GSViewer.cab" from Grandstream Networks, Inc. Please install this add-on when prompted by IE.

3. How do you manually uninstall the Grandstream video viewer add-on for IE?

Please follow these steps to uninstall the add-on:

- 1. Delete the GSViewerX Control from C:\WINDOWS\Downloaded Program Files directory
- 2. Delete GSNetClient.dll, GS_Replay.exe, GSViewerX.ocx, hi_h264dec_w.dll,
- lik_VoiceEngine_dll.dll and GSViewerX.inffrom C:\WINDOWS\system32
- 4. Why can't I access the GXV3610_HD/FHD v2 web configuration interface?
- Q 1: Is your internet service down?
- A 1: Connect a PC to the internet to test the connection.
- Q 2: Are the PC and the device in different subnets?
- A 2: Check the subnet mask and default gateway of the device and PC.
- Q 3: Is there a conflict with another IP address?
- A 3: Try to change the IP address of the device.
- Q 4: Has the HTTP port been changed?
- A 4: Contact the administrator of the device for more information.
- 5. The GXV3610_HD/FHD v2 web configuration page is not displayed correctly in IE8?

In IE8, Compatibility View might need to be enabled for the GXV3610_HD/FHD v2 web configuration page to load properly. To enable compatibility view, open IE8, click *Tools*, *Compatibility View Setting*, and add the GXV3610_HD/FHD v2 web configuration pages to the Compatibility View.

6. Why does IE indicate to install Grandstream Video Viewer add-on after a firmware upgrade? The add-on was properly installed before the firmware upgrade process.

New firmware will often upgrade the add-on as well. To watch the live video stream, you must install the newest version of the add-on.



7. How do you watch secondary video stream?

Login to the home page of the GXV3610_HD/FHD v2 web GUI, click Play to watch the video stream. To watch a secondary video stream, right click on the video, and select *Secondary Stream* on the pop-up menu. Try reinstalling the Grandstream Viewer add-on for IE if you cannot see the video stream.

- 8. What is DDNS? Is it important for IP surveillance product to have DDNS support? DDNS is an acronym for Dynamic Domain Name Service. It is important to choose an IP network camera that has DDNS support for dynamic IP addresses. Chances are that the network has a dynamic IP address (which changes with every log on). A DDNS service makes sure that the camera's IP address always matches up to the current server address. DDNS also allows a website to be linked to the IP camera that is constantly updated with the correct information and has a reliable feed.
- 9. Why is Windows Media Player unable to play the recorded video files?

 The GXV3610_HD/FHD v2 uses the H.264 video codec. Windows Media Player may lack the proper H.264 decoder to play the recorded video. Please download the Microsoft FFDShow H.264 decoder from http://sourceforge.net/projects/ffdshow-tryout/ and install it.

10. Alarm Triggered Events do not work with GSurf_Pro?

Please double check the Alarm Action on your GXV3610_HD/FHD v2. Login to the web GUI of the GXV3610_HD/FHD v2, go to the Motion Detection or Alarm Events page, and make sure option Upload to Alarm Center is checked.

11. Recommended to save the video files in different directories when using GSurf_Pro? It is better to save video files in different directory to prevent accidental deletion of the recorded files you need.

12. How to use a cell phone to watch the GXV3610_HD/FHD v2 video stream?

You must set the video resolution to QCIF to watch the GXV3610_HD/FHD v2 video stream from a cell phone. Make sure to set the bit rate to 64kbps to ensure the best video quality.

13. What Smartphone application should I use to view the video?

There are free applications and paid version application for this, you can find them in Google Play for Android phone and Apple Store for iPhone, like: IP Cam Viewer:



http://hit-mob.com/



14. Why the IP address of the device NOT reset when clicking the "Restore" button?

The GXV3610_HD/FHD v2 could be installed in areas that are not easy to access. For example, it could be installed on the roof of a building or the ceiling of an office. This makes it difficult to reinstall the device, therefore the "Restore" function will not clear the IP address.

15. Why can't the live video stream be viewed using a mobile phone or GSurf_Pro after changing the HTTP Port of the device?

Make sure that the RTSP port of the device is set to 2000 plus the HTTP Port number. For example, if the HTTP port is 88, then the RTSP port of the device that you configured on GSurf_Pro or mobile phone should be 2088.

16. Port forwarding

Two ports must be forwarded on your router to watch video from a GXV3610_HD/FHD v2 that is located on a private network from a PC in a public network. The web port (HTTP) and the RTSP port. Please make note that the RTSP port number changes according to the web port. If the web port is 80, then the RTSP port is 554. If the web port is not 80, then the RTSP port equals the web port +2000. For example, if the web port is 88, then the RTSP port will be 2088.