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Using Motion Detection, Alerts and Alarms

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Agenda

1. **Motion Detection**
   - Features and abilities
   - 3 step setup
2. **Integrating External Alarm Devices**
3. **Surveillance Alerts and Alarms**
   - Where/when alerts can be sent
   - Setting up alerts and alarms
   - Event-triggered recording
4. **GSurf Pro V2 – Grandstream FREE VMS**

Grandstream's SIP Cameras

Indoor/Outdoor Cameras

GXV3662 Series

GXV3672 Series

GXV3610 series

GXV3674_VF Series

Indoor Cameras

GXV3601_HD

GXV3651_FHD

GXV3615WP_HD

GXV3611_HD

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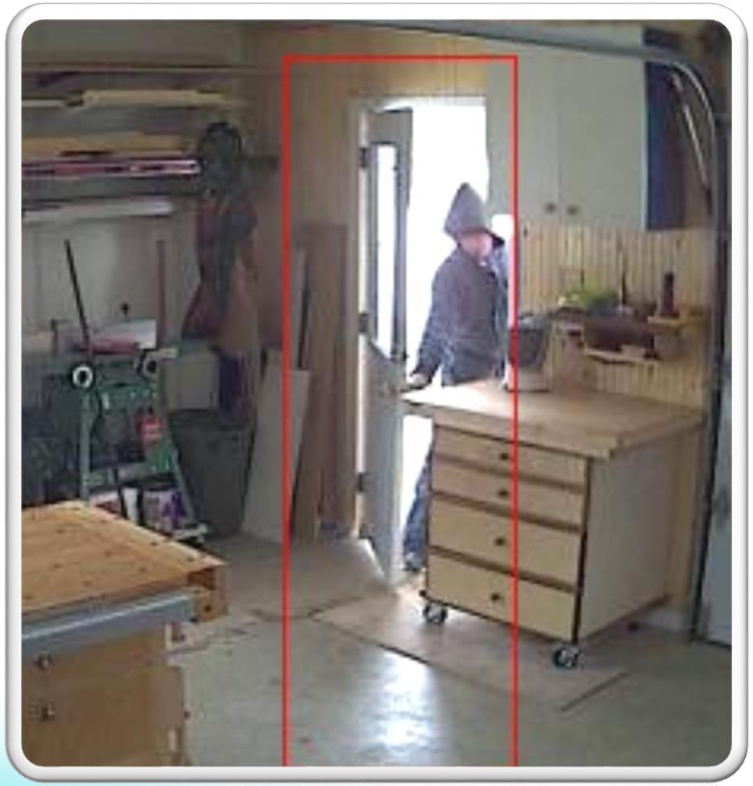
1. Motion Detection



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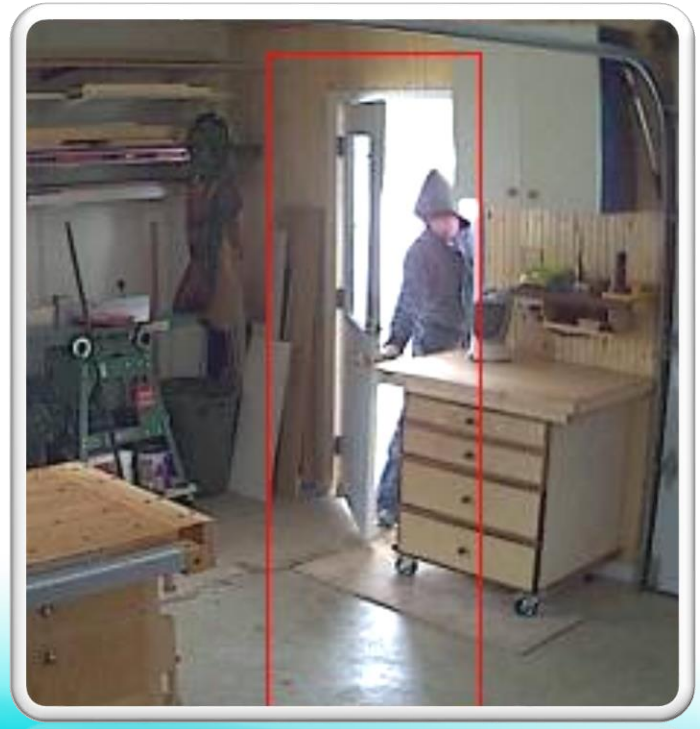
Motion Detection



- Available on all Grandstream cameras
- Up to 16 target areas per camera
- Easily setup in 3 steps using a camera's Web UI
- Grandstream's ONVIF-compliancy will allow motion detection on our camera to interact with any ONVIF VMS, NVR, etc.

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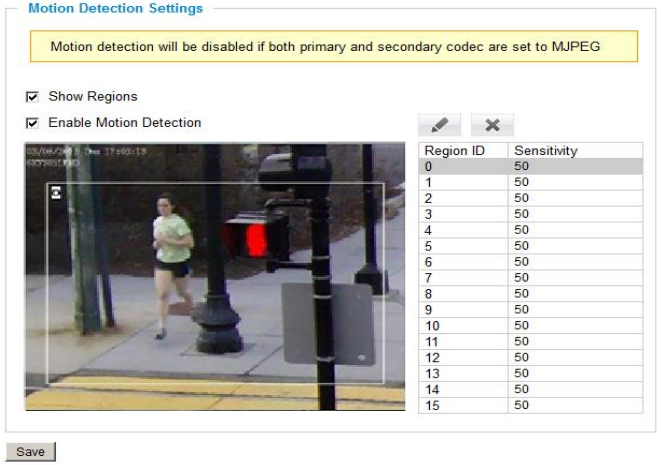
3-Step Process

Step1: Enable Motion detection and setup regions



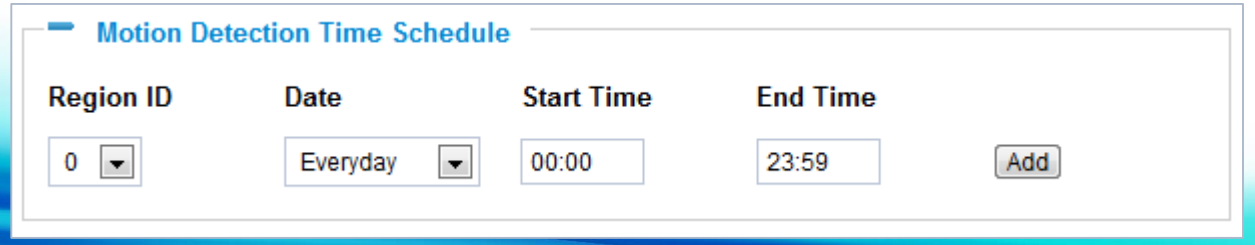
Sensitivity can be adjusted

Step2: Set Alarm Action

Note: *When* ***Upload to Alarm Center*** *is checked, the Motion Detection region and icon (in Home page) will blink in red if your camera detects any motion.*

Alarm Action is where you tell the camera what to do when it senses an alarm (where to send the alert to and how to alert you)

Step3: Setup Motion detection Time Schedule



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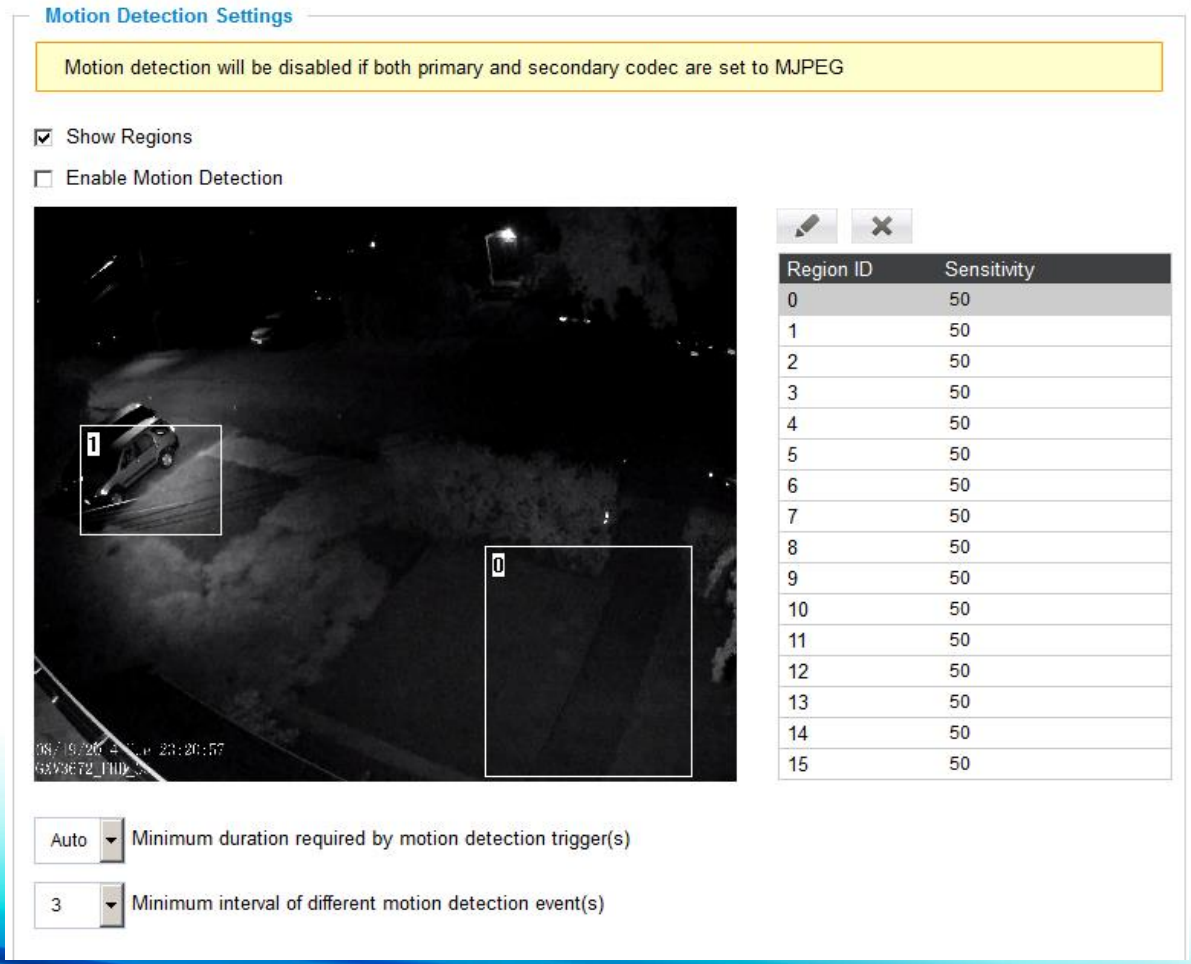

Important Settings

- **Sensitivity**
- **Minimum duration required by motion detection trigger**
- **Minimum interval of different motion detection event**
- **Time Schedule Config**
- **Alarm Action** (what should the camera do when motion is detected)
  - *Record Video*
  - *Voice Alarm to SIP phone*
  - *Upload to Alarm Center (Gsurf_Pro V2)*
  - *Upload to Alarm HTTP (3rd party Application/VMS)*
  - *Upload to FTP*
  - *Email and FTP screenshots*

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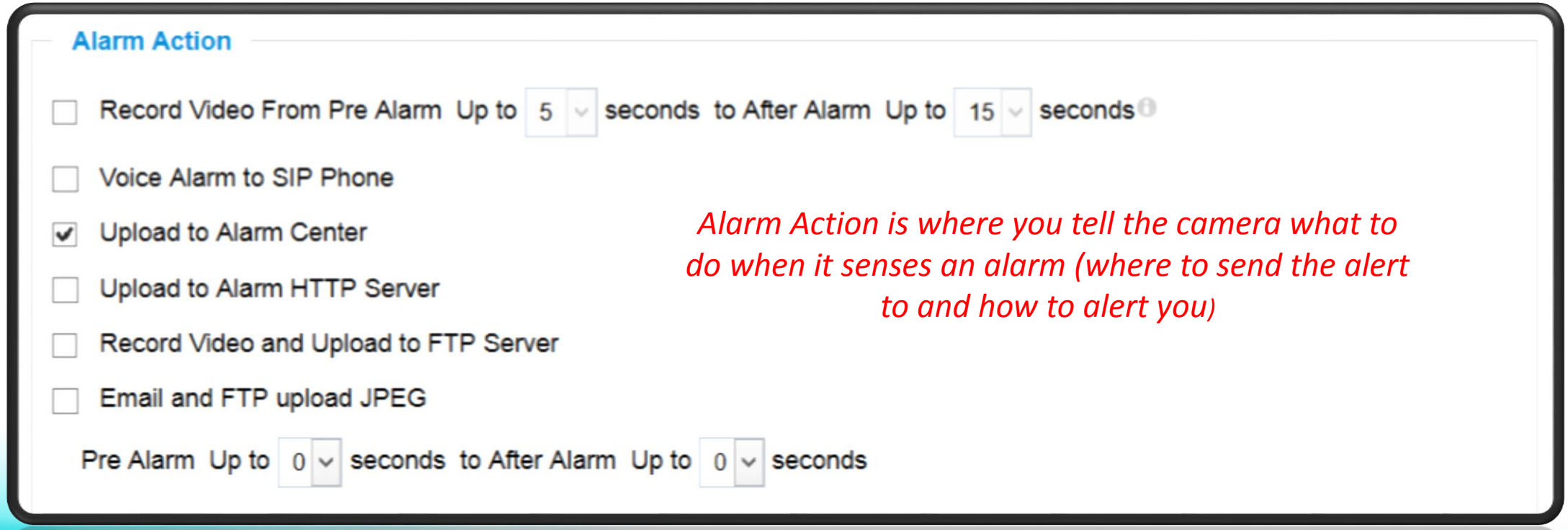
Set Up Alarm Actions…



Alarm Action is where you tell the camera what to do when it senses an alarm (where to send the alert to and how to alert you)

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10 Minute Motion Detection Demonstration

https://www.youtube.com/watch?v=X9-VGzcVytw

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2. Integrating With External Alarms, Speakers and Intercoms

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Integrating With External Alarms, Speakers and Intercoms

1. Alarm devices input directly into cameras
2. Alarm devices input to encoders/decoders
3. Alarm devices input to PC-server for integration with Gsurf_Pro

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2.1 Integrating External Devices with Cameras

Alarm & Audio Input/Output	Audio Input Only
GXV3662 series	GXV3674 series
GXV3651_FHD	GXV3672 series
GXV3611_HD	GXV3610 series
GXV3601_HD	

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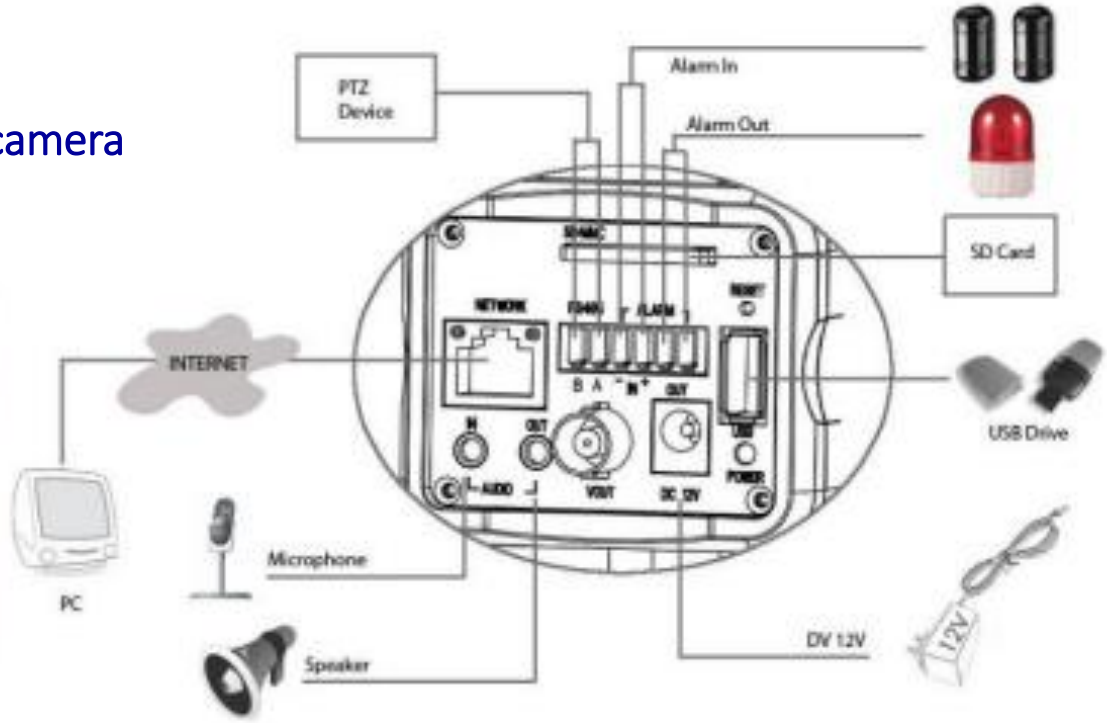
2.1 Integrating External Audio Devices with Cameras

2.1 Integrating External Devices with Cameras

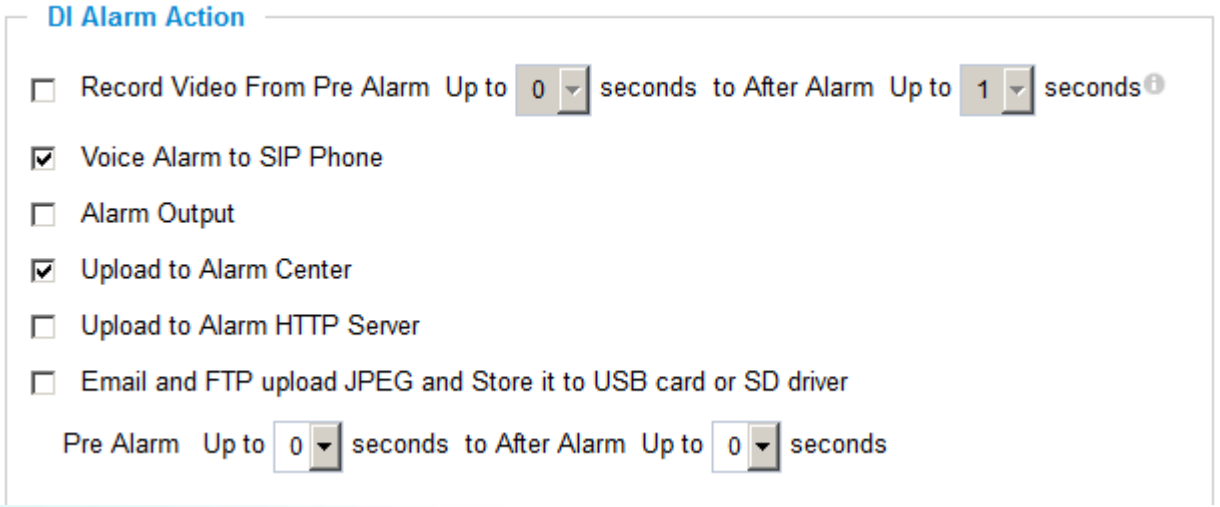
Step1: Configuring Alarm Input on the camera



2.1 Integrating External Devices with Cameras

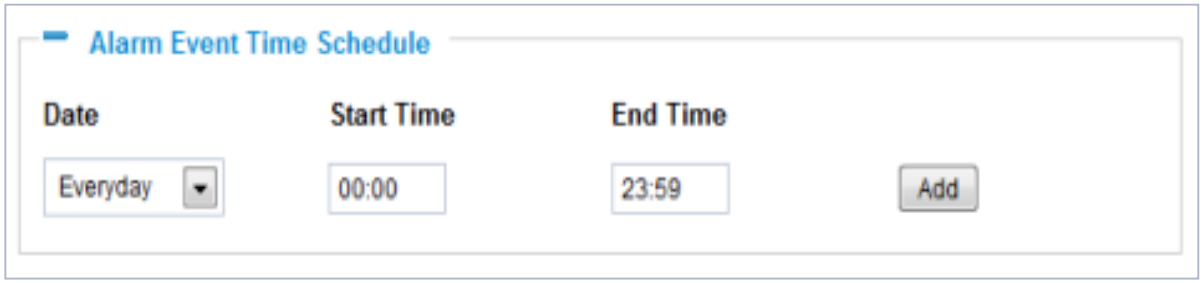
Step2: Enable Alert Event

Configuration > Advanced Settings > Alarm Event



Step3: Configure Alarm Schedule

Configuration > Advanced Settings > Alert Event



- *In this scenario, when Alarm IN triggers an alarm, a SIP call will be sent to preconfigured SIP phone number.*

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2.2 Integrating External Devices with Encoders/Decoders

GXV3500

GXV3504

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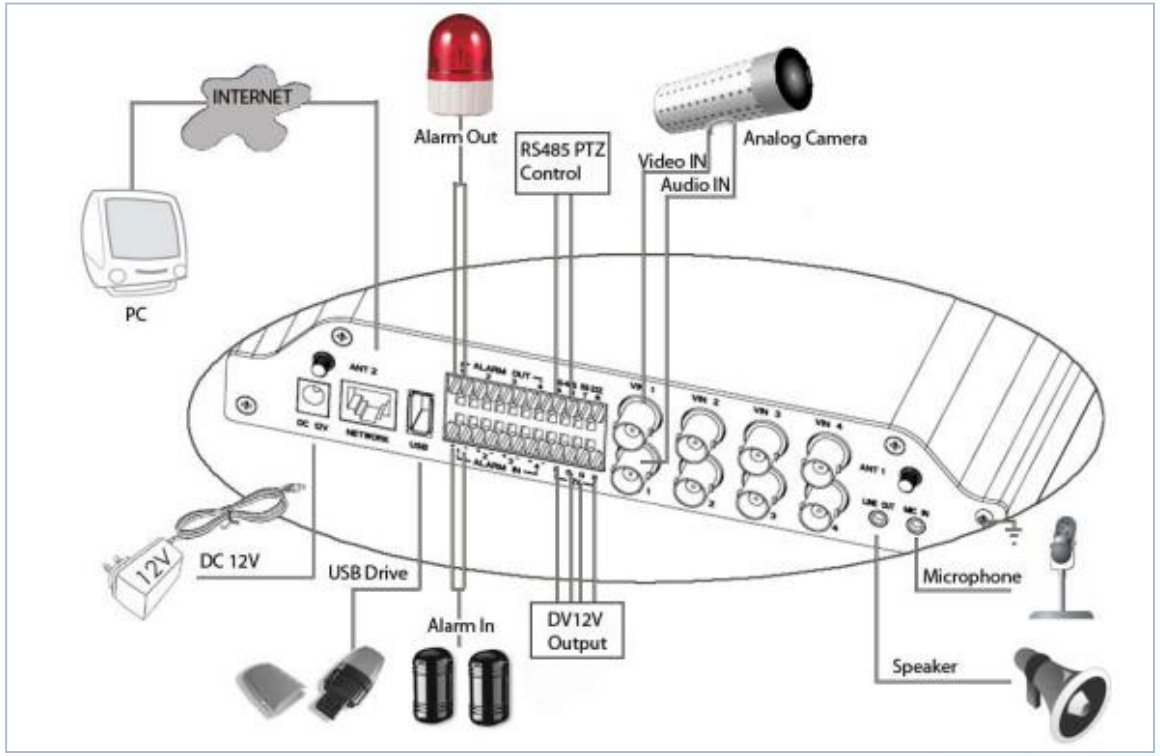
2.2 Integrating External Devices with Encoders/Decoders

GXV3500

2. Integrating External Devices with Encoders/Decoders

- **Grandstream's encoders/decoders support integration of 3rd party devices**
- A video encoder digitizes analog video signals and sends digital images directly over an IP network
- It turns an analog video system into a IP network video system and enables users to view live images using a web browser or a video management software such as Gsurf_Pro or other VMS or smartphone applications on any local or remote computer devices.
- Allows authorized viewers from different locations to simultaneously access images from the same analog camera.



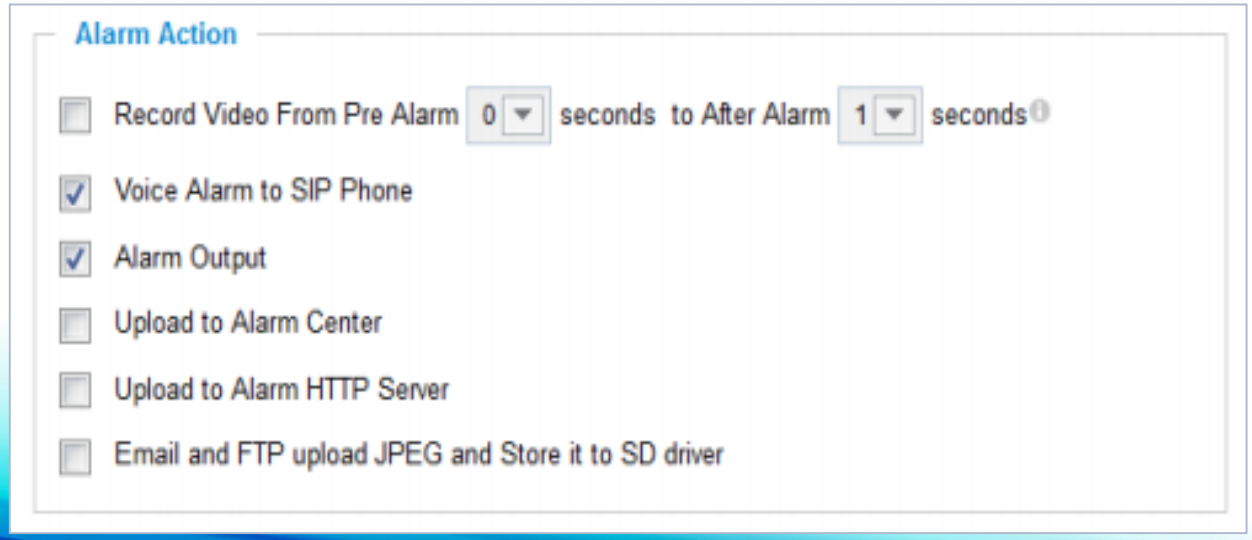
GXV3504

2. Integrating External Devices with Encoders/Decoders

Using encoder or decoders Web UI

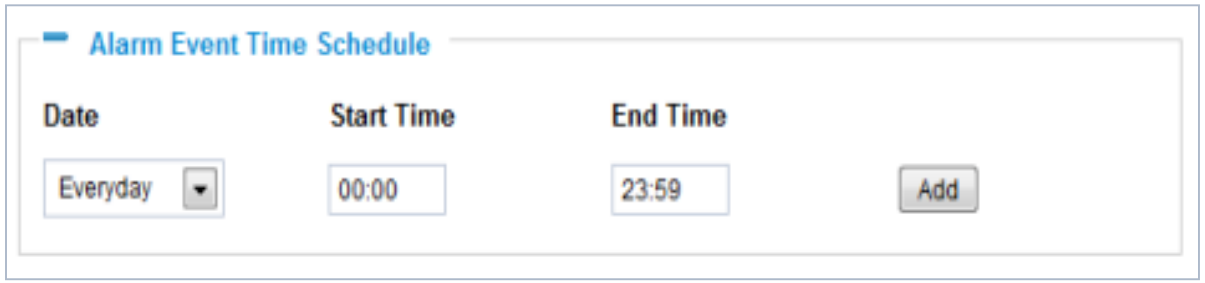
Step2: Enable Alert Event

Configuration > Advanced Settings > Alert Event



Step3: Configure Alarm Schedule

Configuration > Advanced Settings > Alert Event



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GXV3500

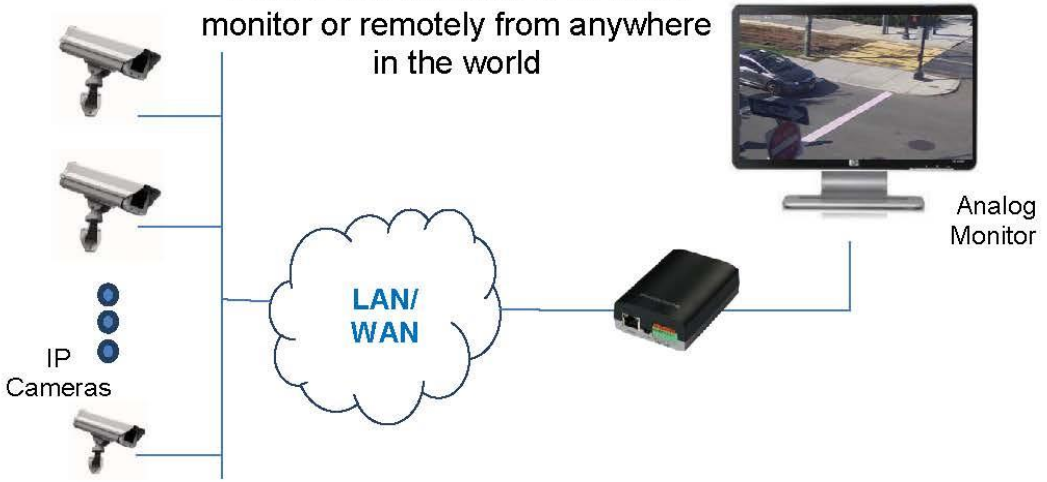
3-in-1
IP Video Decoder +
Encoder +
Public Address System (PAS)
combo device

GXV3500

- Advanced multi-streaming-rate real-time H.264, Motion JPEG at D1 resolution
- Built-in high-performance serve to allow 10+ simultaneous viewers
- SIP/VoIP support for two-way audio and video streaming to mobile/video phones
- Integrated Power-over-Ethernet (802.af)

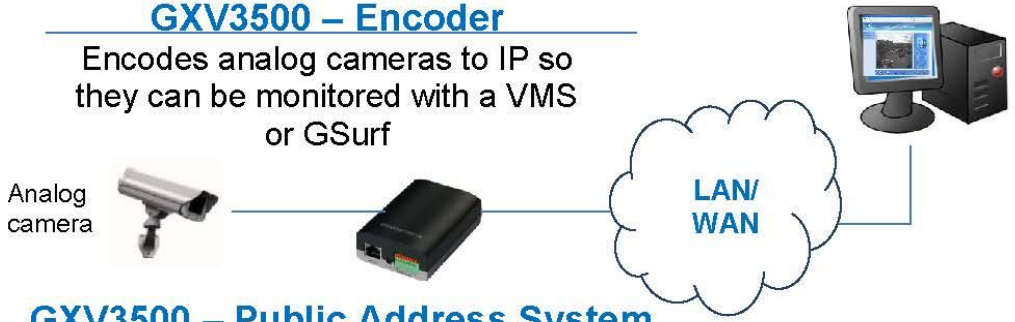
GXV3500 – Decoder

View 1 to 8 cameras on a video monitor or remotely from anywhere in the world



GXV3500 – Encoder

Encodes analog cameras to IP so they can be monitored with a VMS or GSurf



GXV3500 – Public Address System

Make voice and video announcements from a microphone or remote SIP phone, and stream IP video content

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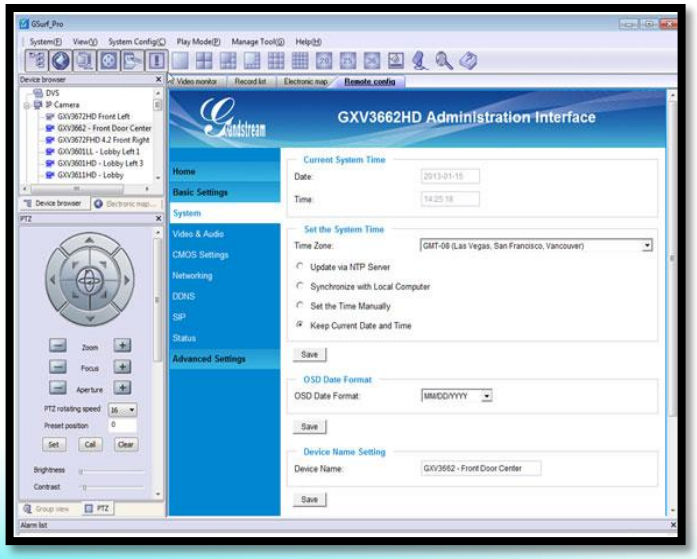
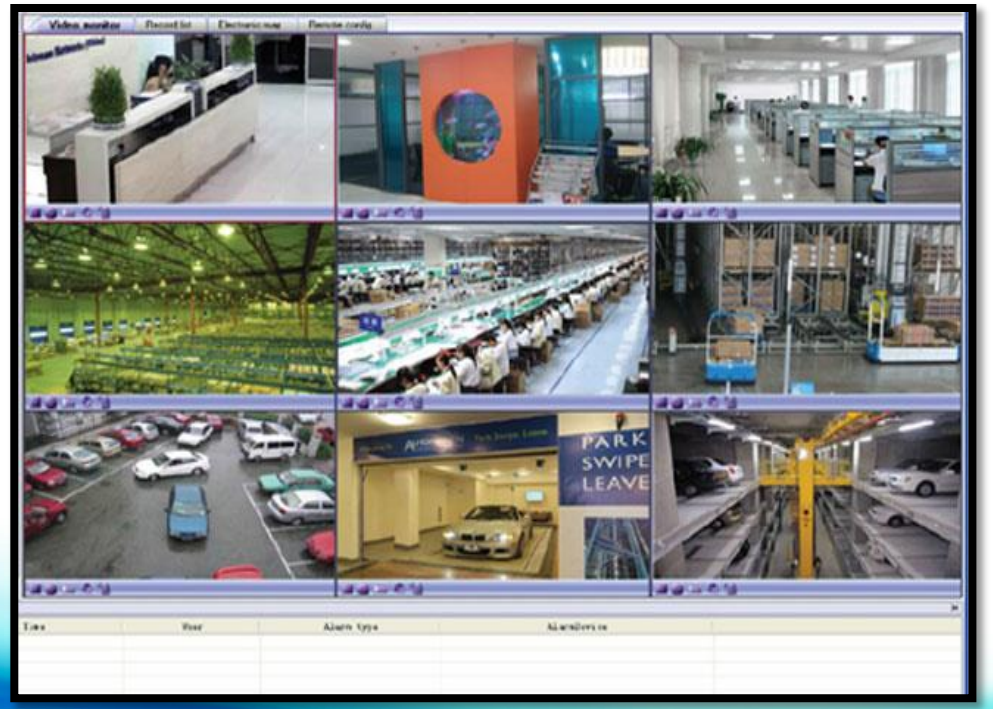
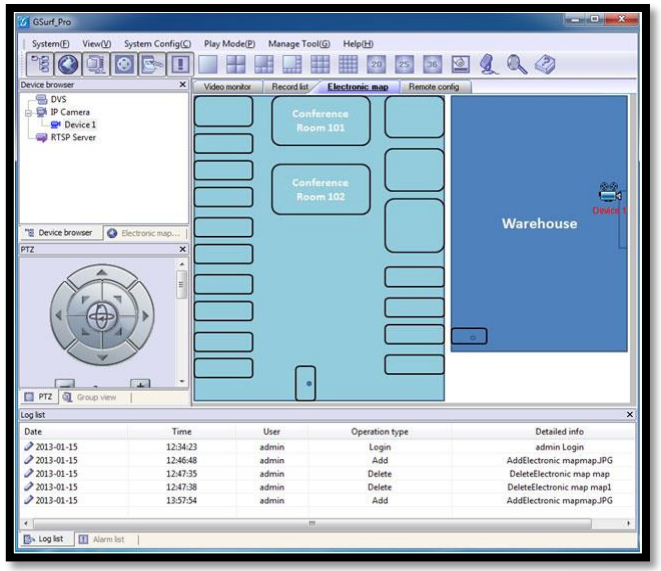
2.3. Integrate External Devices with PC running Gsurf_Pro







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3. Using Alerts and Alarms

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Event-Triggered Recording

Starts Recording when motion detection or another alarm event is triggered

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Receiving Alerts

1. Gsurf_Pro/GVR3550 Live View

When an alarm is triggered, the Live View will notify user using pop-up on-screen

2. Video Call to video devices

3. Voice Call Alerts

4. Email Screenshot

When a new object is detected by the camera

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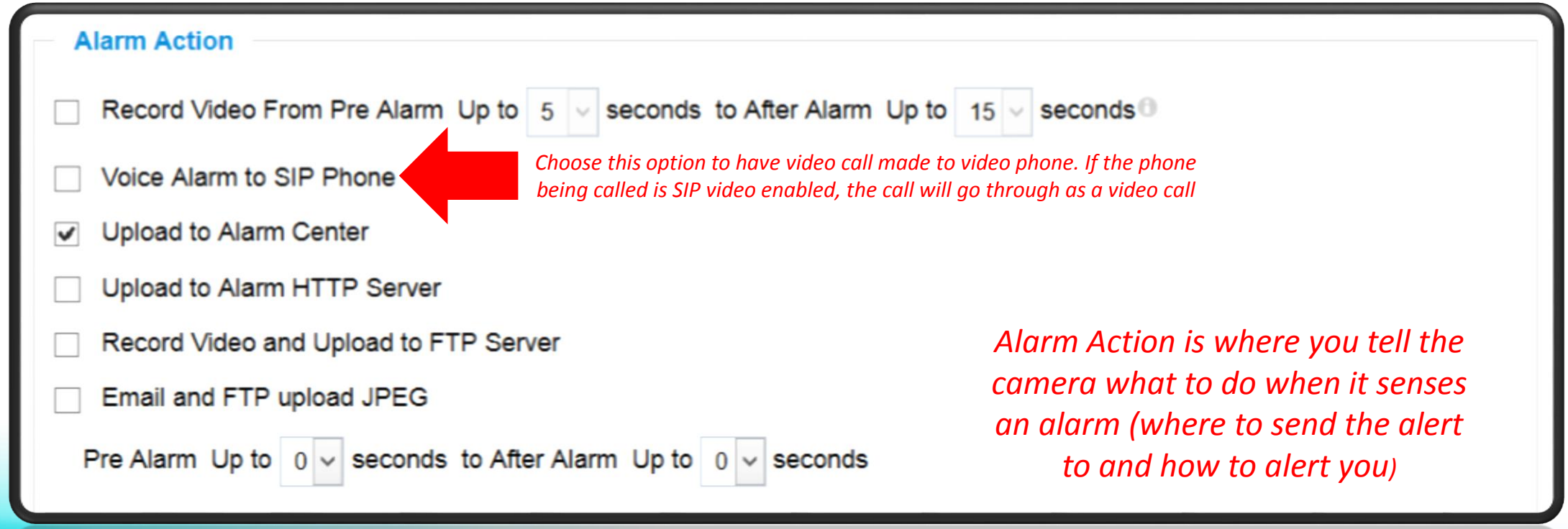
Set Up Alarm Actions…



Choose this option to have video call made to video phone. If the phone being called is SIP video enabled, the call will go through as a video call

Alarm Action is where you tell the camera what to do when it senses an alarm (where to send the alert to and how to alert you)

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Alerts to Gsurf_Pro V2

Alarm Action

- [ ] Record Video From Pre Alarm Up to 5 seconds to After Alarm Up to 15 seconds
- [ ] Voice Alarm to SIP Phone
- [x] Upload to Alarm Center
- [ ] Upload to Alarm HTTP Server
- [ ] Record Video and Upload to FTP Server
- [ ] Email and FTP upload JPEG

Pre Alarm Up to 0 seconds to After Alarm Up to 0 seconds

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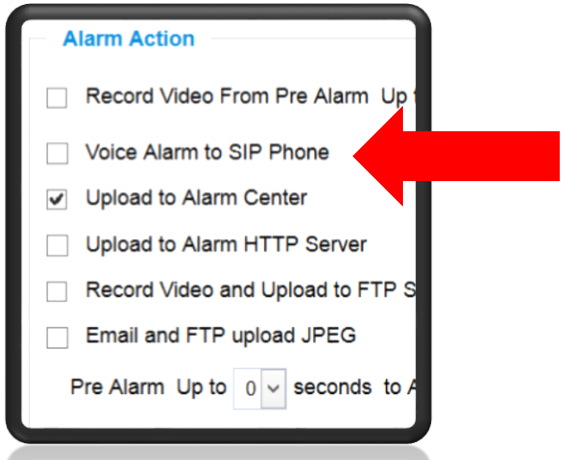
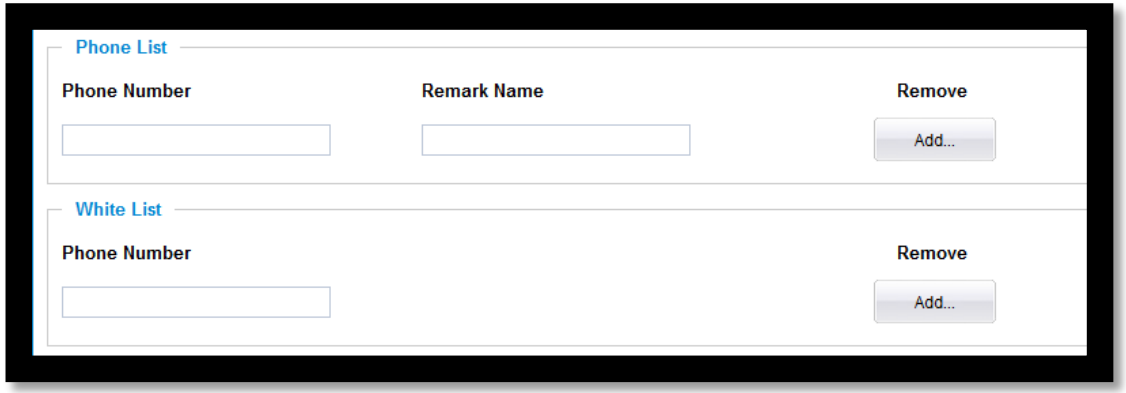
Voice/Video Alerts to SIP Phone





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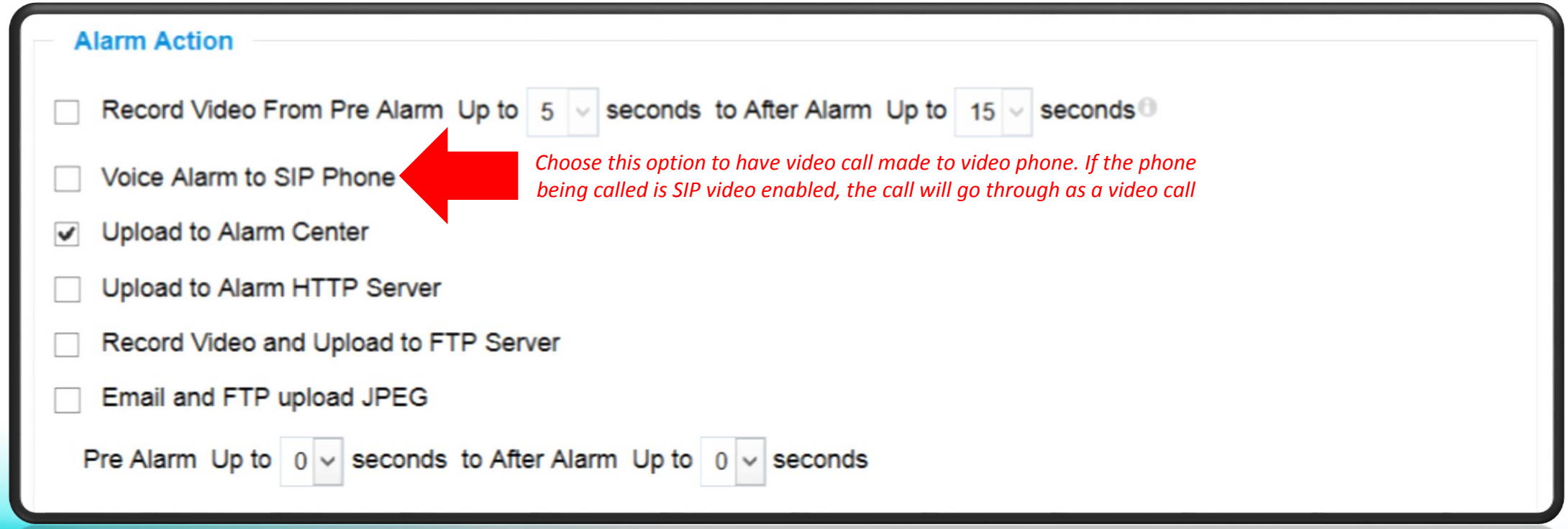
Set Up Alarm Actions…



Choose this option to have video call made to video phone. If the phone being called is SIP video enabled, the call will go through as a video call

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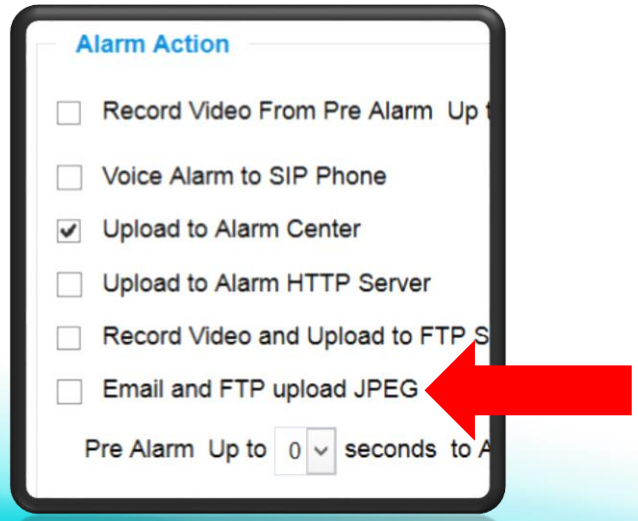
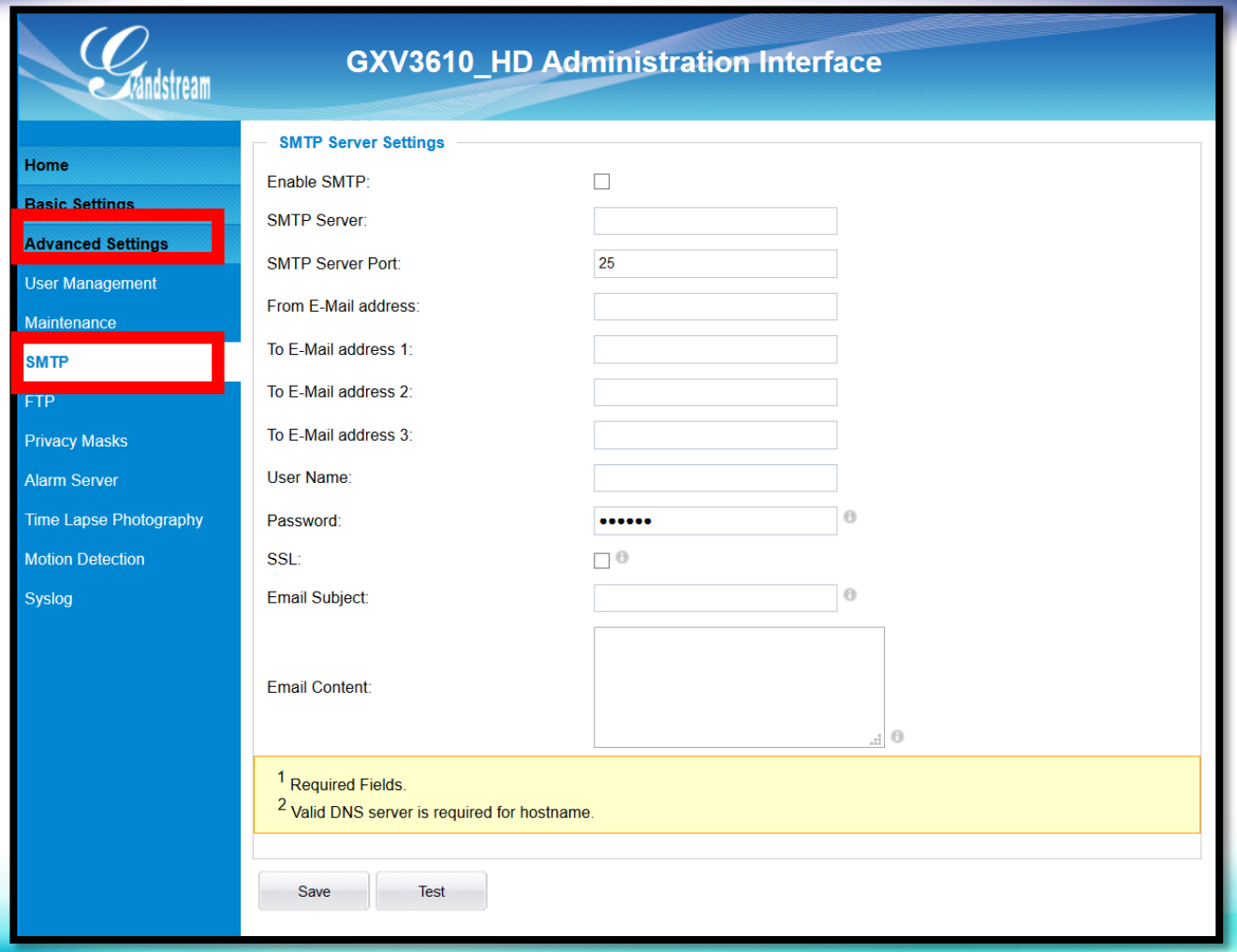
Screenshot Alerts to Email





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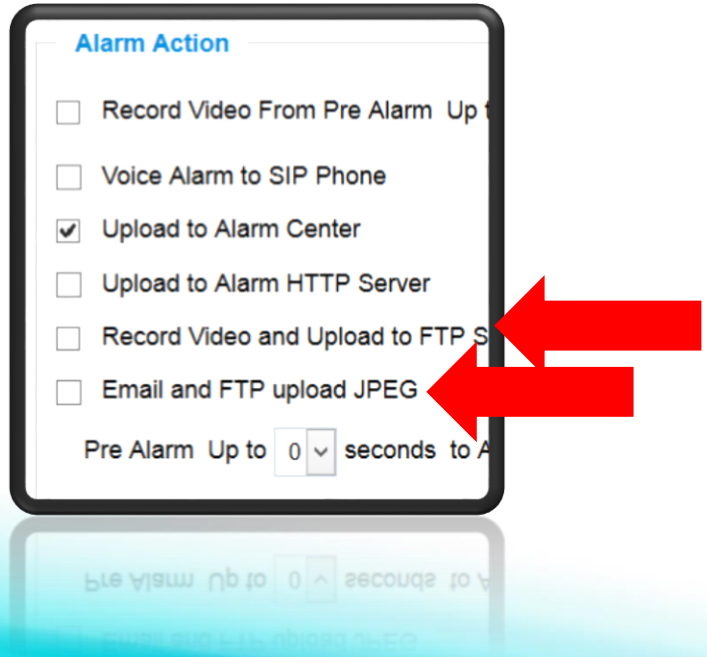
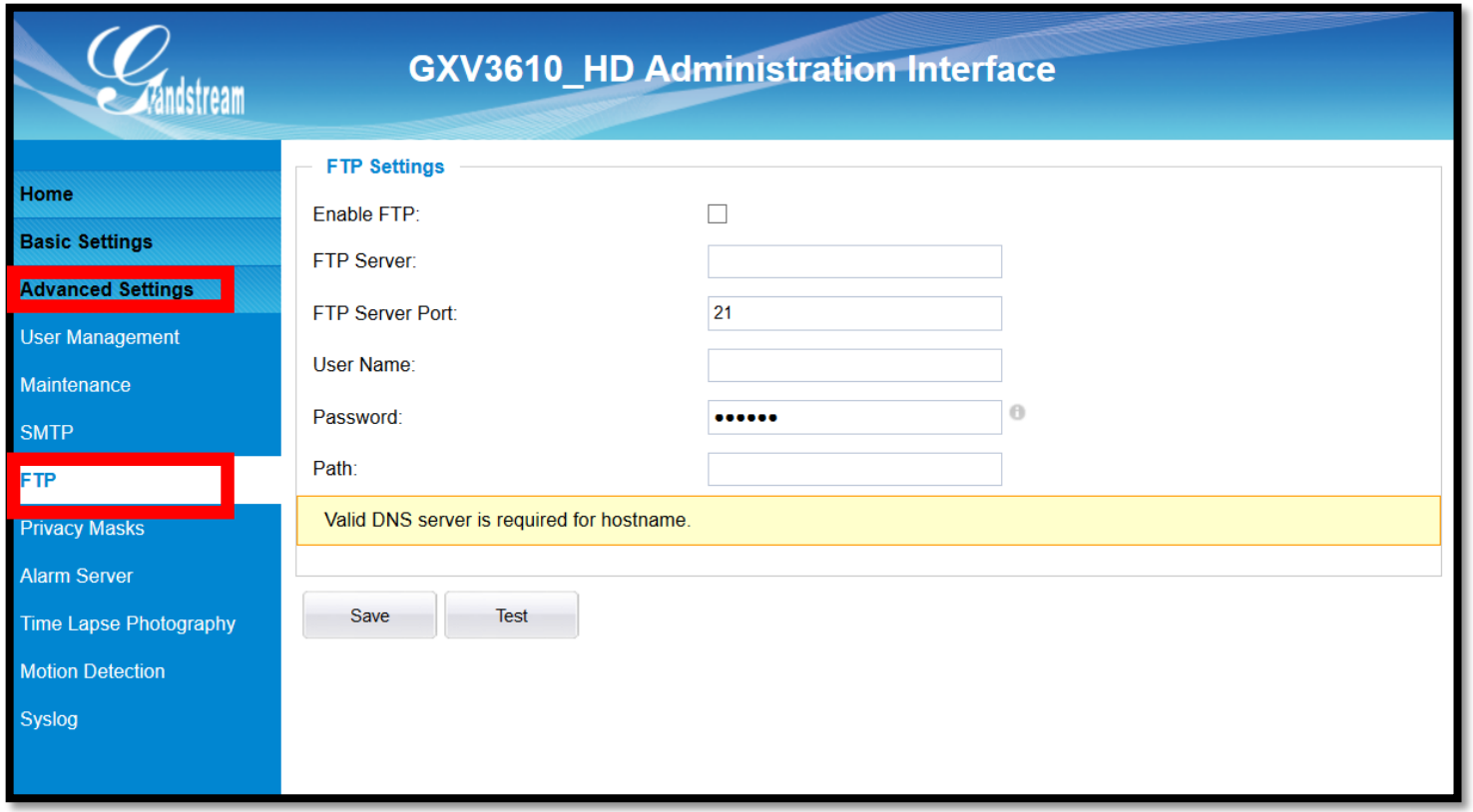
Upload Video/Picture to FTP





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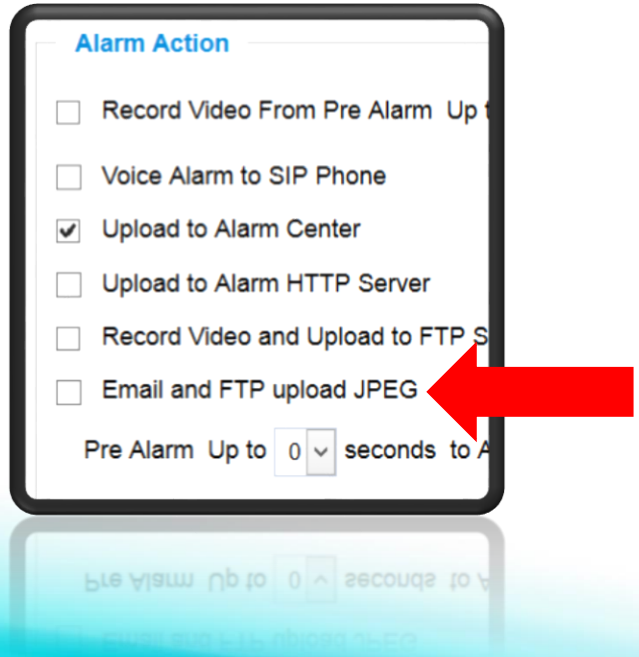
Upload to HTTP



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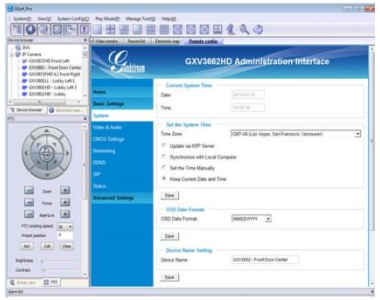
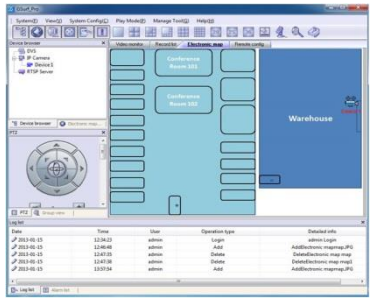
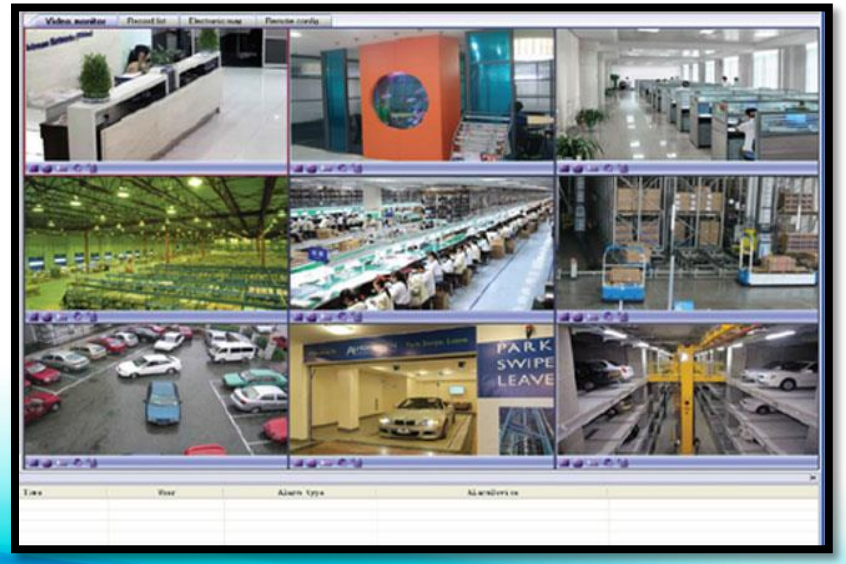






Gsurf_Pro V2

Video Management Software

- Monitor up to 72 cameras
- Client/Server architecture with e-Map support
- Two-way audio/video monitoring and alarming
- Replay up to 4 recorded video files simultaneously
- Zero recurring costs or licensing fees – (Gsurf_Pro is included with all Grandstream surveillance products)
- Installed on one or several PC-based server(s)

Make it a Solution…

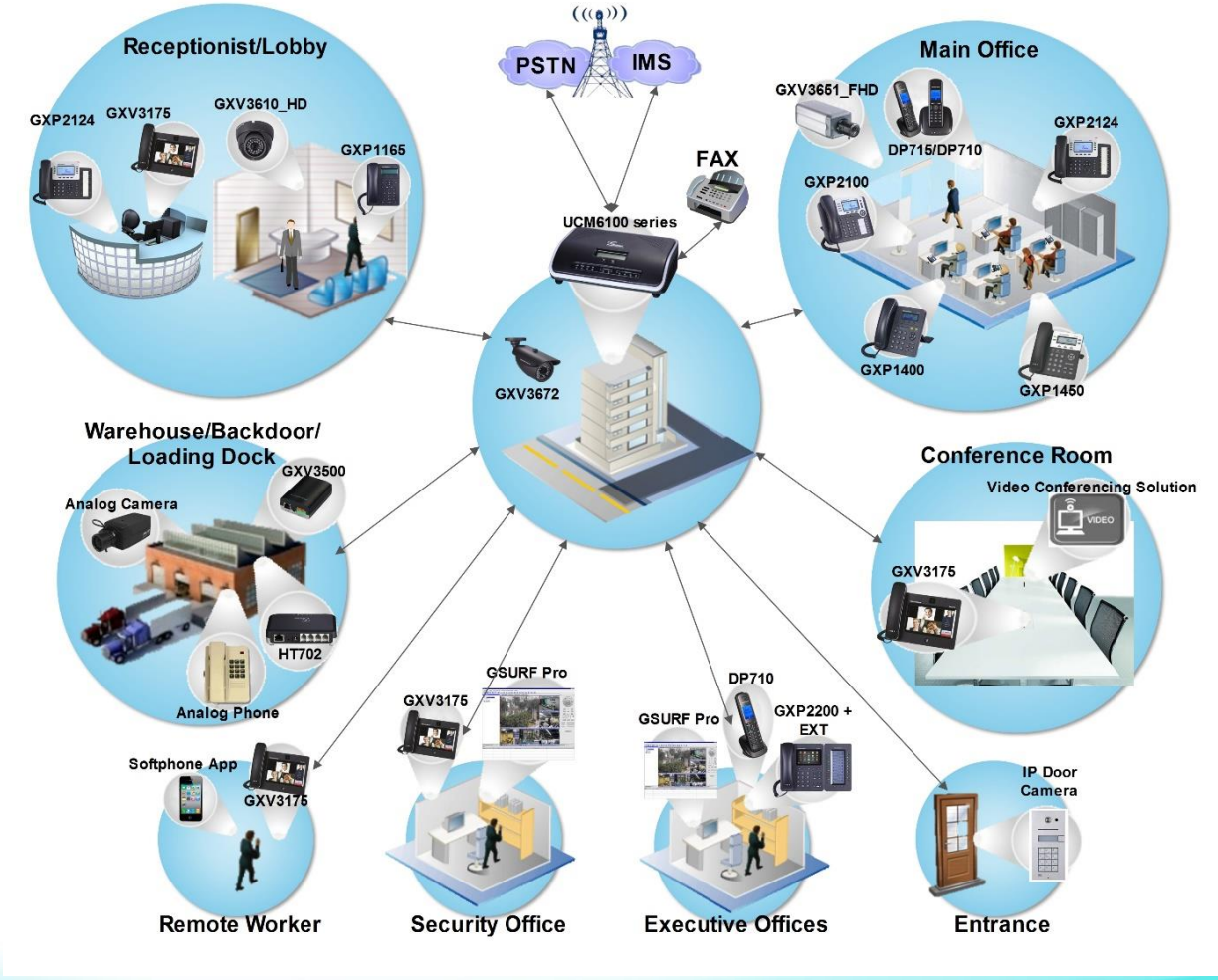
Register Grandstream's SIP cameras to an IP PBX

- Make video calls to IP cameras to see live feeds
- Set cameras to call video device (IP Video phones) when alert/alarm is triggered
- Cameras can send you an email or screen capture
- To communicate with IP Door Cameras, etc.
- 2-way video/audio calls to/from cameras thanks to SIP/VoIP support
  - *GXV3601 series, GXV3610 series, GXV3611_HD and GXV3615 series feature built-in microphone and speaker*

Advantage 1: Integrated Solution under One Network

Unified Communications: One Integrated Network Solution

- All Grandstream phone, cameras, and UCM6100 series are SIP-based devices
- A true Unified Communications solution offering voice, video, data and mobility features
- All devices can be easily setup, customized and managed from one central location
- Add functionality to devices by combining them onto the same network
- Even add/include analog phones and analog cameras



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