



Integrating Surveillance with Your IP PBX



UCM6100 series IP PBX Appliance



UCM6102
UCM6104



UCM6108
UCM6116

Asterisk is a Registered Trademark of Digium

*Delivering high quality, secure and reliable voice, video, data & mobility for **SMBs***



- ◆ Enterprise-grade features in an affordable, compact & easy-to-manage PBX designed specifically for the SMB market
- ◆ No licensing fees
- ◆ Fast and easy setup & management
- ◆ ALL hardware/software included as well as lifetime firmware updates

Voice
Secure, clear, and reliable
Conferencing
Comprehensive Codec Support
Endless Customizable Voice features

Data
Phonebook files
CDR
Codec Transcoding
System Backup
Call Recording
Voicemail/fax to email



Mobility
Softphone apps
Monitor your business
Connect Multiple Offices

Video
Face to face video calls
Video Surveillance Integration
SIP Video
Video Codec Support

UCM6100 series - General Specifications

- ◆ Up to 500 extensions
- ◆ # of FXO ports & concurrent calls:
 - 2 - 30 (UCM6102)
 - 4 - 45 (UCM6104)
 - 8 - 60 (UCM6108)
 - 16 - 60 (UCM6116)
- ◆ Gigabit ports with PoE Plus
- ◆ Each bridge supports up to 25 (UCM6102 & UCM6104) or 32 (UCM6108 & UCM6116) conference attendees
- ◆ Zero-configuration provisioning
- ◆ Simple setup/management with Web UI



The screenshot displays the Grandstream Web UI for PBX management. The top navigation bar includes "Status", "PBX", "Settings", and "Maintenance". The main content area is divided into several sections:

- Trunks:** A table showing trunk status and details.
- Extensions:** A table listing extensions with filters for Analog, Features, IAX, and SIP.
- Conference Rooms:** A section for managing conference rooms.
- Interfaces Status:** A section showing the status of various interfaces like USB, LAN, FXS, and FXO.
- Parking Lot:** A section for managing call parking, currently showing "No Parked Calls defined!!".

Status	Trunks	Type	Username	Port/Hostname/IP
Reachable	DallasAA	SIP		50.84.167.227
Unmonitored	Vitelity	SIP	admin	66.241.96.237
Unmonitored	Skype	SIP	admin	SIP:Skype.com
Unavailable	Verizon	Analog		Ports 1,2
Unavailable	Bellsouth	Analog		Ports 3,4

Extension	Name/Label	Status	Type
6000	GXP2120 sam	Messages: 0/0/0	SIP User, Analog User (FXS 1)
6001	eman	Messages: 0/0/0	SIP User, Analog User (FXS 2)
6002	eman	Messages: 0/0/1	SIP User
6003	otro	Messages: 0/0/0	SIP User
6004	Test 6004	Messages: 0/0/0	SIP User
6005	Ludo	Messages: 0/0/0	SIP User
6006	Ludo	Messages: 0/0/0	SIP User
6007	Ludo	Messages: 0/0/0	SIP User
6011	Ernesto	Messages: 0/0/0	SIP User
6025	CnameEXT PBX	Messages: 0/0/0	SIP User
*97	Voicemail Access Code		Features
*98	My Voicemail		Features
**	Call Pickup on Ringing		Features
*81	Paging Prefix		Features

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UCM6100 Series - Video

Delivering high quality, secure and reliable video communications

Full SIP Video Support



- ◆ Any SIP video endpoint, such as
 - ◆ Video Phones
 - ◆ Video Conferencing Solutions
 - ◆ Door/Facility Access Cameras/Modules
 - ◆ IP Video Surveillance cameras



UCM6100 Series Video Surveillance Integration



- ◆ Create a comprehensive solution to view, monitor and receive alerts from IP cameras
- ◆ Register IP cameras to the PBX
- ◆ Make video calls to IP cameras to view live feeds
- ◆ Speak through cameras with 2-way audio & video (door entry)
- ◆ IP cameras can be set to automatically call video phone when alert is triggered
- ◆ Receive alerts from anywhere in the world

Indoor/Outdoor Cameras



GXV3662
Series



GXV3672
Series



GXV3610 series



GXV3674_VF
Series

Indoor Cameras



GXV3601_HD



GXV3651_FHD



GXV3615WP_HD



GXV3611_HD

Make it a Solution...

Register Grandstream's SIP cameras to an IP PBX

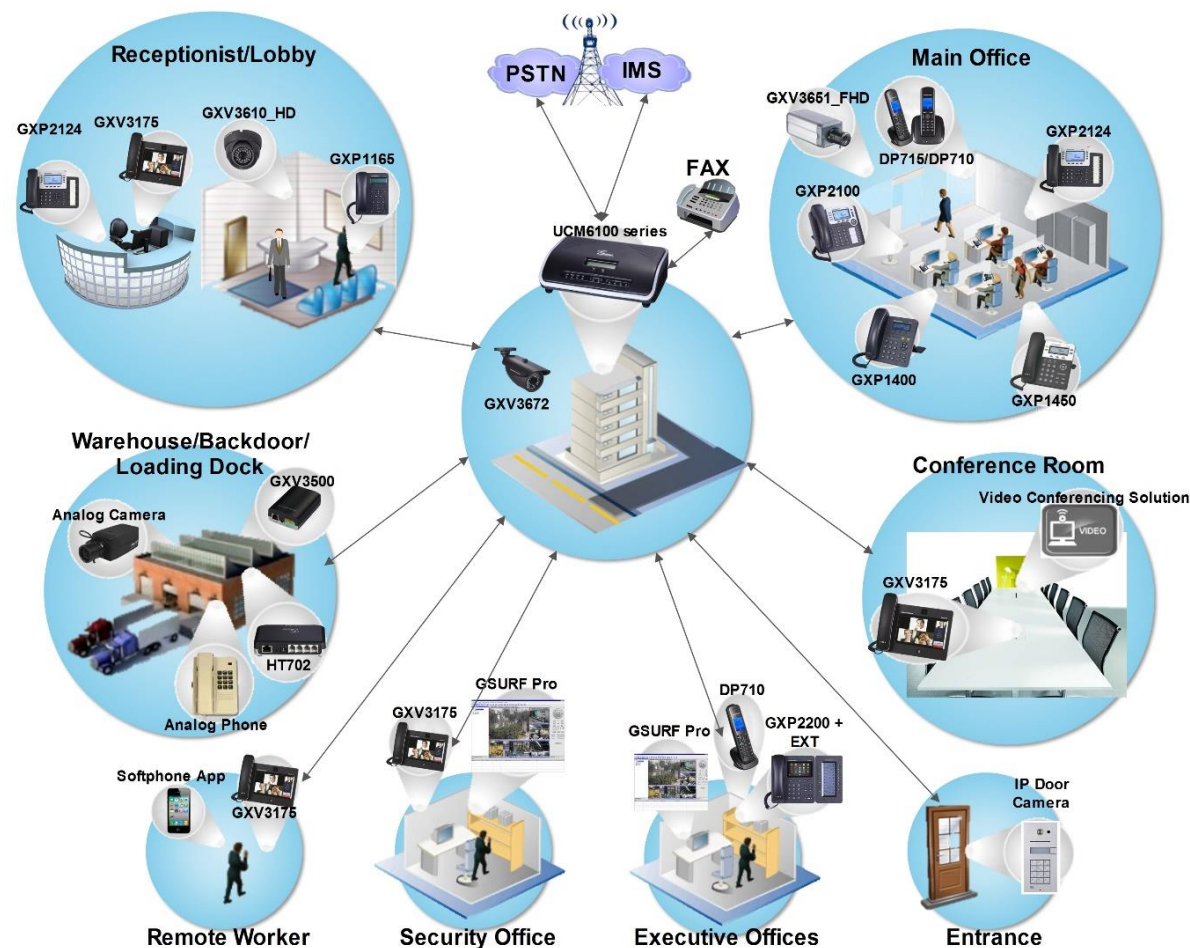


- Make video calls to IP cameras to see live feeds
- Set cameras to call video device (IP Video phones) when alert/alarm is triggered
- Cameras can send you an email or screen capture
- To communicate with IP Door Cameras, etc.
- 2-way video/audio calls to/from cameras thanks to SIP/VoIP support
 - *GXV3601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

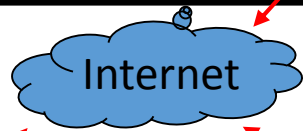
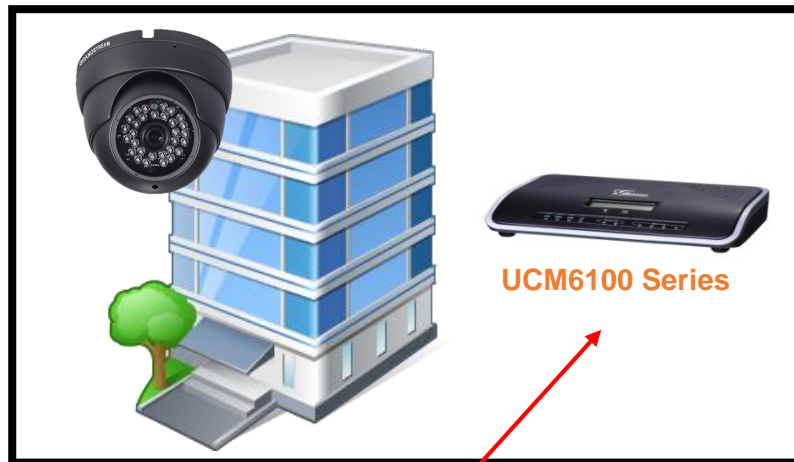


Unified Communications: One Integrated Network Solution

- ◆ 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



Communicate With Cameras on Any Network



- ◆ **Camera's can send alerts or be contacted from outside networks thanks to their SIP registration when registered to an IP PBX**
 - ◆ You set the phone number the cameras contact when an alert is triggered
 - ◆ With a SIP registration, any IP camera is given a phone number/IP address that can be called to view the camera's live feed
 - ◆ View camera's live feed from any device that has an internet connection

Receive Surveillance Alerts Anywhere, Anytime

1. Video calls to video-enabled devices



2. Voice call alerts



3. Email Screenshot



Cameras are Registered to the IP PBX the same way as any Endpoint

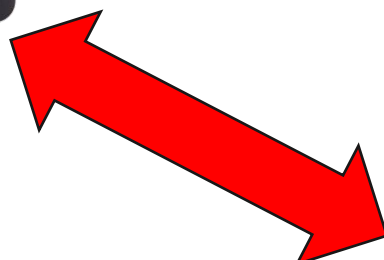
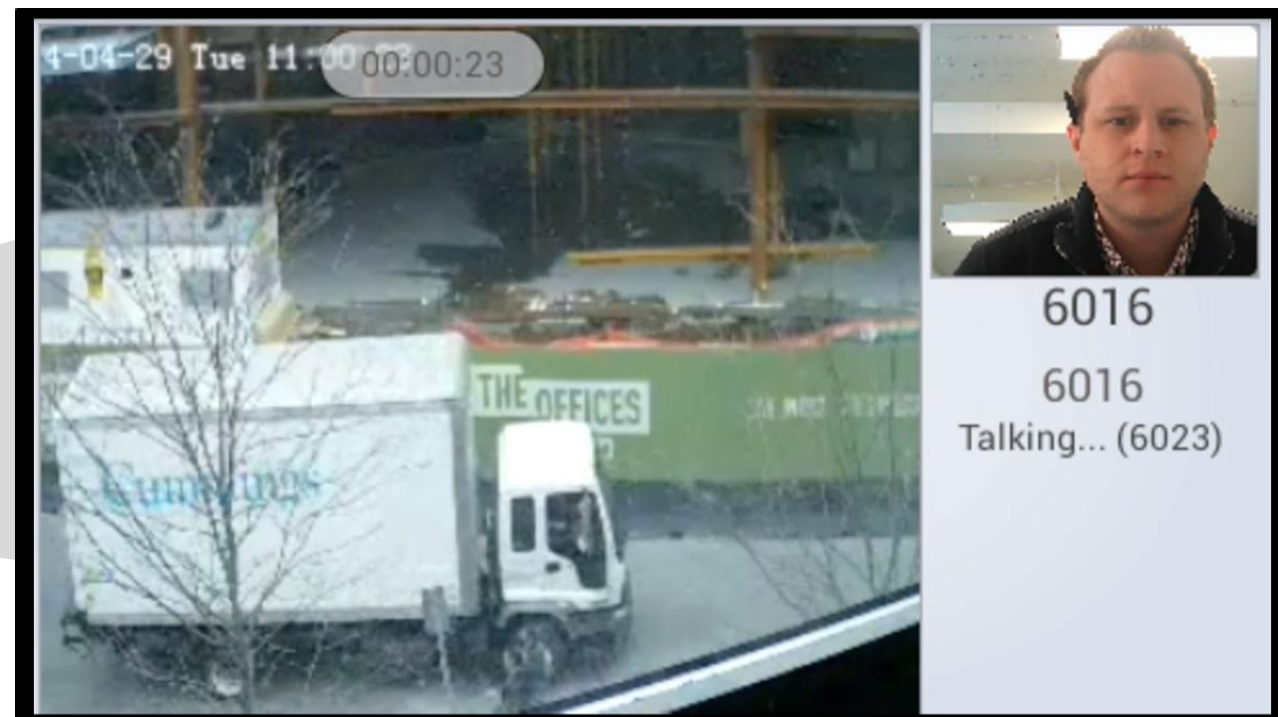
The screenshot displays the Grandstream PBX web interface. The top navigation bar includes 'Status', 'PBX', 'Settings', and 'Maintenance'. The left sidebar lists various configuration options under 'Basic/Call Routes', 'Call Features', 'Internal Options', 'IAX Settings', and 'SIP Settings'. The main content area shows a table of registered extensions with columns for 'Extensions', 'CallerID Name', 'Technology', 'IP and Port', 'Status', and 'Options'. The table lists 10 extensions, with 3 marked as 'Online' and 7 as 'Offline'. Below the table, there are pagination controls and a 'Go' button.

<input type="checkbox"/>	Extensions	CallerID Name	Technology	IP and Port	Status	Options
<input type="checkbox"/>	6000	GXP2120 sam	SIP/FXS1	--	Offline	
<input type="checkbox"/>	6001	eman	SIP/FXS2	--	Offline	
<input type="checkbox"/>	6002	eman	SIP	--	Offline	
<input type="checkbox"/>	6003	otro	SIP	--	Offline	
<input type="checkbox"/>	6004	Test 6004	SIP	--	Offline	
<input type="checkbox"/>	6005	Ludo	SIP	66.228.93.3:1048	Online	
<input type="checkbox"/>	6006	Ludo	SIP	66.228.93.3:5070	Online	
<input type="checkbox"/>	6007	Ludo	SIP	--	Offline	
<input type="checkbox"/>	6011	Ernesto	SIP	66.228.93.3:5062	Online	
<input type="checkbox"/>	6025	CnameEXT PBX	SIP	66.228.93.75:5062	Online	

Total: 10 Show: 1/1 Jump to: Go First Prev Next Last

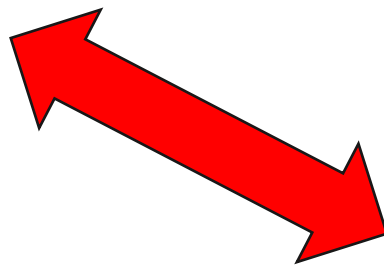
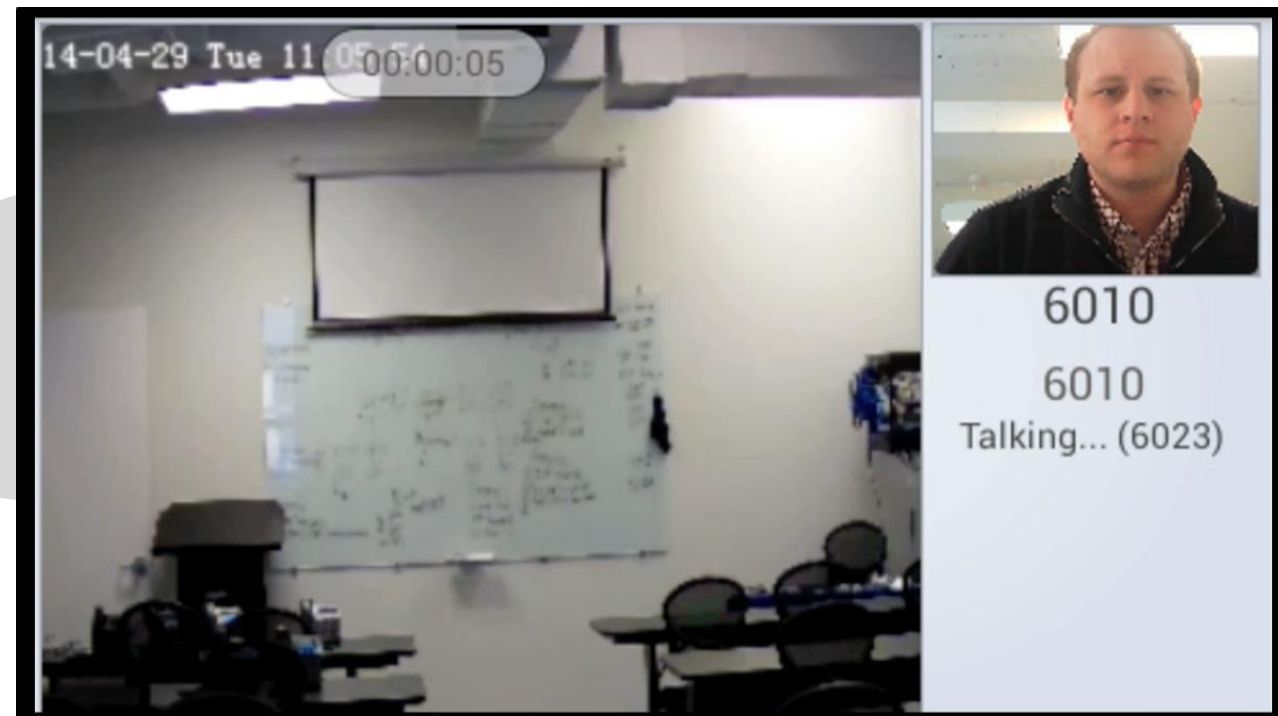
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Integrating Surveillance with Your IP PBX



1. Receive video calls from cameras whenever alerts/alarms are triggered
2. Make video calls to cameras to see the live feed

Integrating Surveillance and Door Access Solutions with Your IP PBX



1. Visitor can call from door phone to video phone in apartment or office
2. From video phone, user can unlock door using a pre-configured DTMF key

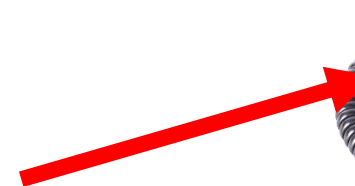
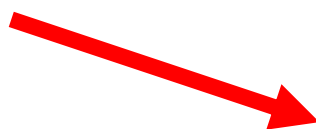
Turn a Grandstream IP Surveillance Camera into a Door Opener when Paired with a Grandstream Video Phone

Step 1: Configure the Grandstream Video Phone and the IP Camera

Step 2: Enable Alert Event

Step 3: Connect Doorbell and IP Camera

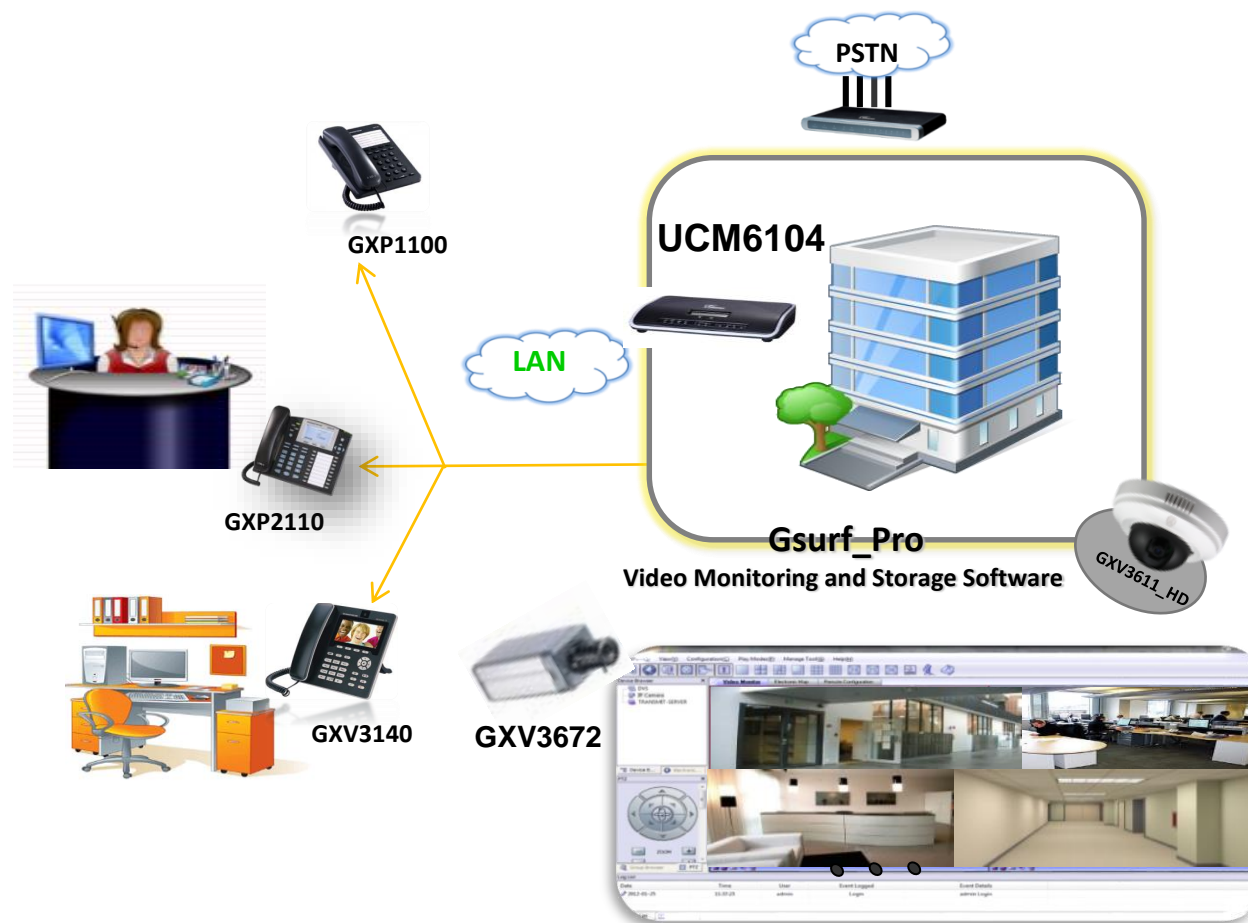
Step 4: Open Door via Incoming Video Call



Integrating Surveillance with Your IP PBX

Integration of Surveillance Service

- Grandstream has a free VMS platform (Gsurf_Pro) for video monitoring and management which can be installed on PC.
- IP camera can be installed and then registered to the UCM6100 Series.
- Video monitoring via SIP.



Integrating Surveillance with Your IP PBX

Requirement:

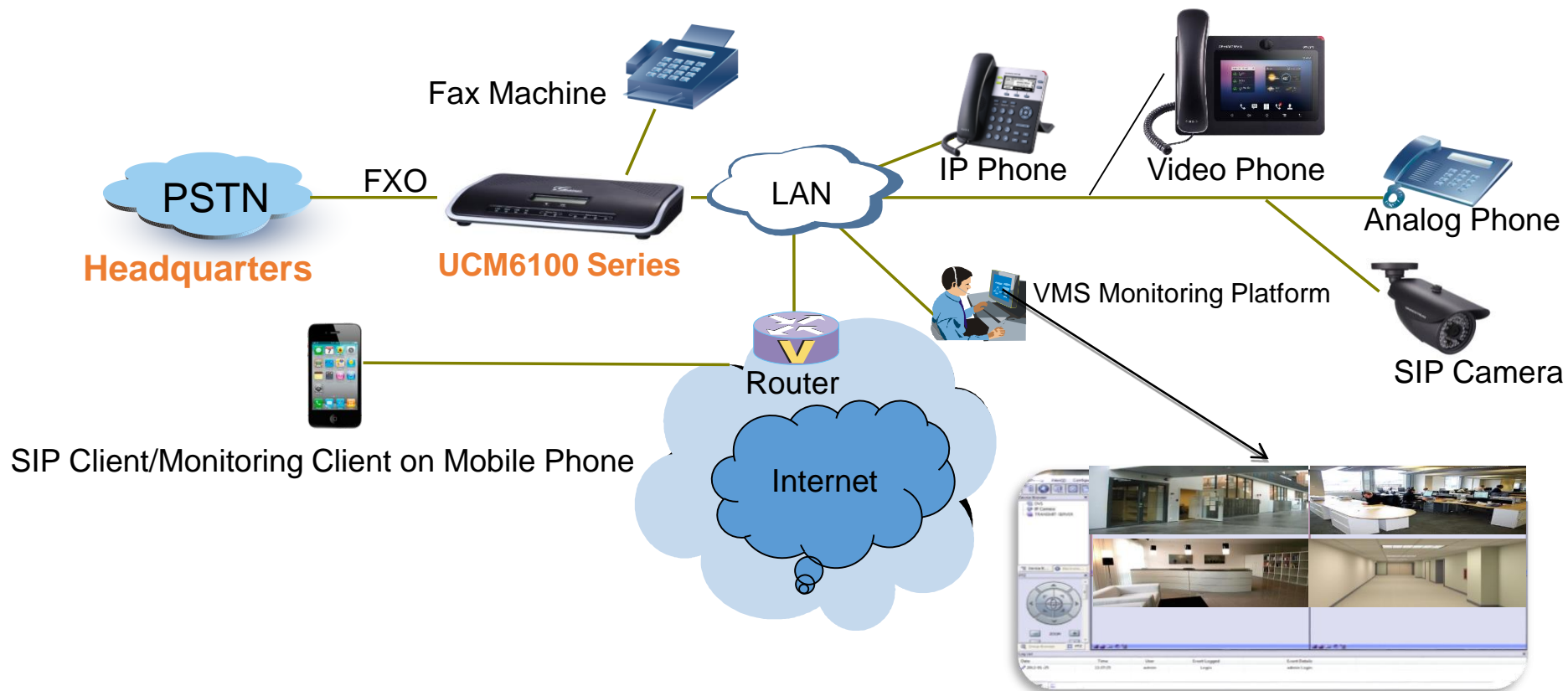
IP cameras installed in warehouse and front door for security and monitoring purpose.

Solution:

- Install VMS platform Gsurf_Pro on PC for video recording and storage.
- Install monitoring soft client on mobile phone.
- Register SIP extension on IP video phone.
- Install SIP soft client on touchpad or mobile devices and register SIP extension for real time monitoring.

Equipment:

- PoE switch + IPC PoE power supply.
- IP camera: GXV3610, GXV3672, and etc.
- IP video phone: GXV3275.
- Mobile devices: iPad or iPhone with SIP soft client installed.



Web User Interface

The screenshot shows the main administration interface with a sidebar menu on the left containing: Home, Basic Settings, System, Video & Audio, CMOS Settings, Networking, WiFi, DDNS, SIP, Status, and Advanced Settings. The main content area is titled "GXV3615WP_HD Administration Interface" and includes sections for "Current System Time" (Date: 2013-12-18, Time: 12:20:46), "Set the System Time" (Time Zone: GMT-05, Update via NTP Server, Synchronize with Local Computer, Set the Time Manually, Keep Current Date and Time), "OSD Date Format" (OSD Date Format: YYYY-MM-DD), and "Device Setting" (Turn off the LED Indicator, Device Name).

The screenshot shows the "Alarm HTTP Server Settings" section. It includes a sidebar menu with: Home, Basic Settings, Advanced Settings, User Management, Maintenance, SMTP, FTP, Alarm Server, Motion Detection, Syslog, Record, and Live Storage. The main content area is titled "GXV3615WP_HD Administration Interface" and contains the "Alarm HTTP Server Settings" form with fields for Server Name, URL, User Name, and Password.

Alarm settings

The screenshot shows the "Motion Detection Region Settings" section. It includes a sidebar menu with: Home, Basic Settings, Advanced Settings, User Management, Maintenance, SMTP, FTP, Alarm Server, Motion Detection, Syslog, Record, and Live Storage. The main content area is titled "GXV3615WP_HD Administration Interface" and contains the "Motion Detection Region Settings" form with a video preview window showing a dashed box and a "A plugin is needed to display this content." message. To the right of the preview are checkboxes for "Enable Motion Detection" and "Show Motion Detection Regions", a "Select a Region" dropdown, a "Sensitivity" input, and "Save", "Edit", and "Remove" buttons.

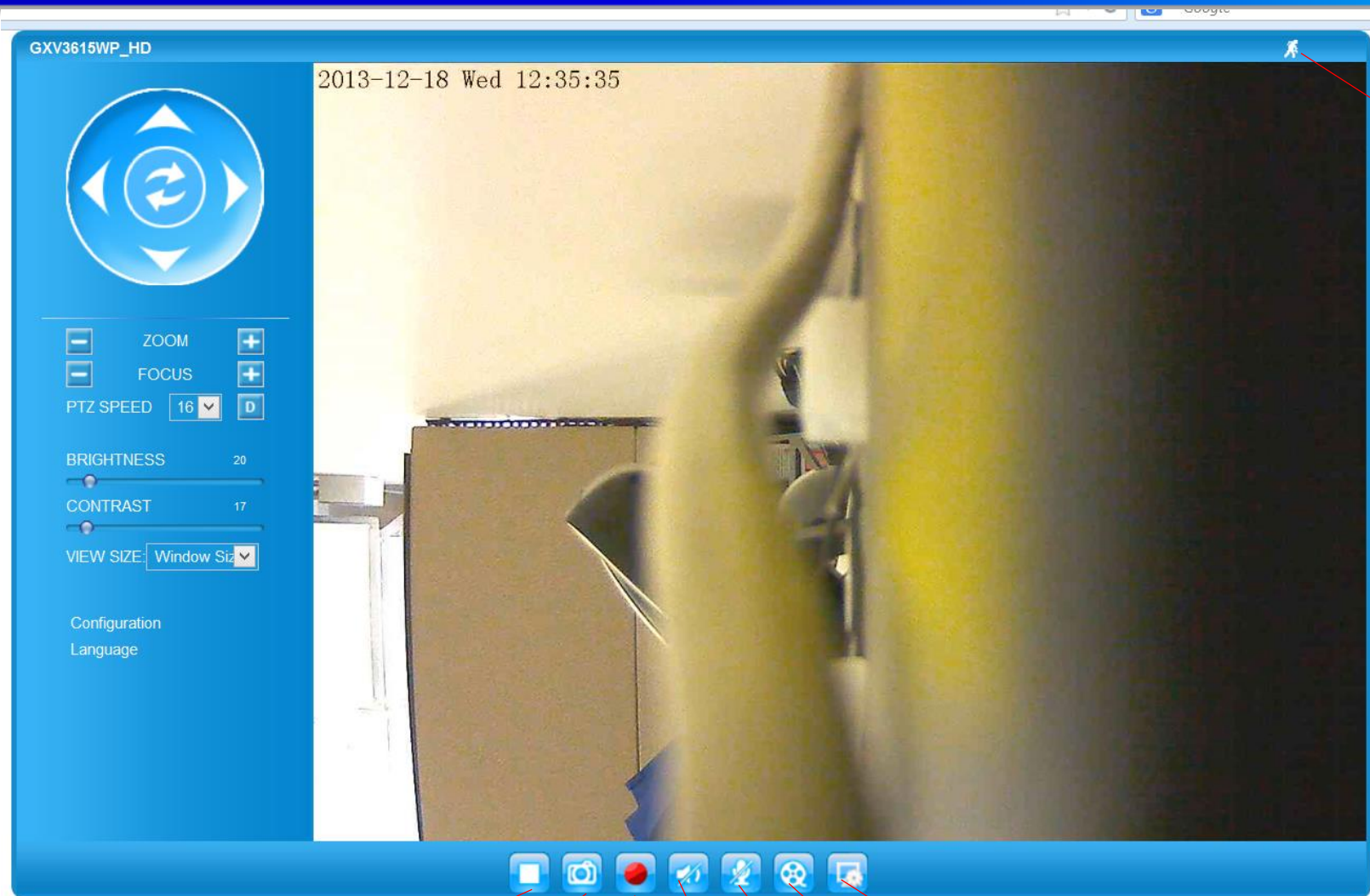
Recording schedules

The screenshot shows the "Record Settings" section. It includes a sidebar menu with: Home, Basic Settings, Advanced Settings, User Management, Maintenance, SMTP, FTP, Alarm Server, Motion Detection, Syslog, Record, and Live Storage. The main content area is titled "GXV3615WP_HD Administration Interface" and contains the "Record Settings" form. It includes a "Record Settings" section with "Enable Record Schedule" checkbox, a calendar grid for scheduling, "Copy" and "To" dropdowns, and a "Save" button. Below is a "Manual Recording" section with a "Start" button.

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
S																								
M																								
T																								
W																								
T																								
F																								
S																								

Motion Detection

Grandstream Web UI



Motion Detection settings

Stop

Capture

Start/Stop
Recording

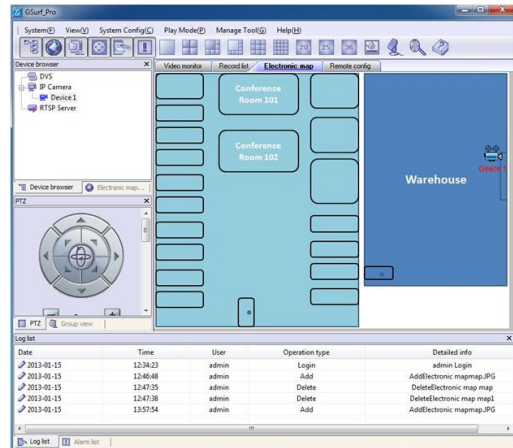
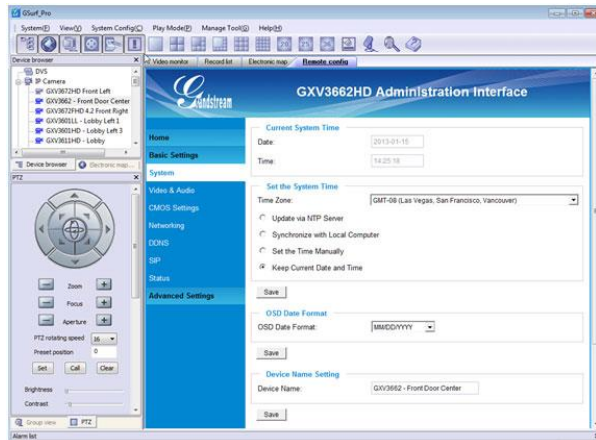
Audio
On/off

Talk
(2-way
audio)

Playback

Local
Config

Grandstream IP Surveillance



FREE! GSurf Pro

Video Management Software

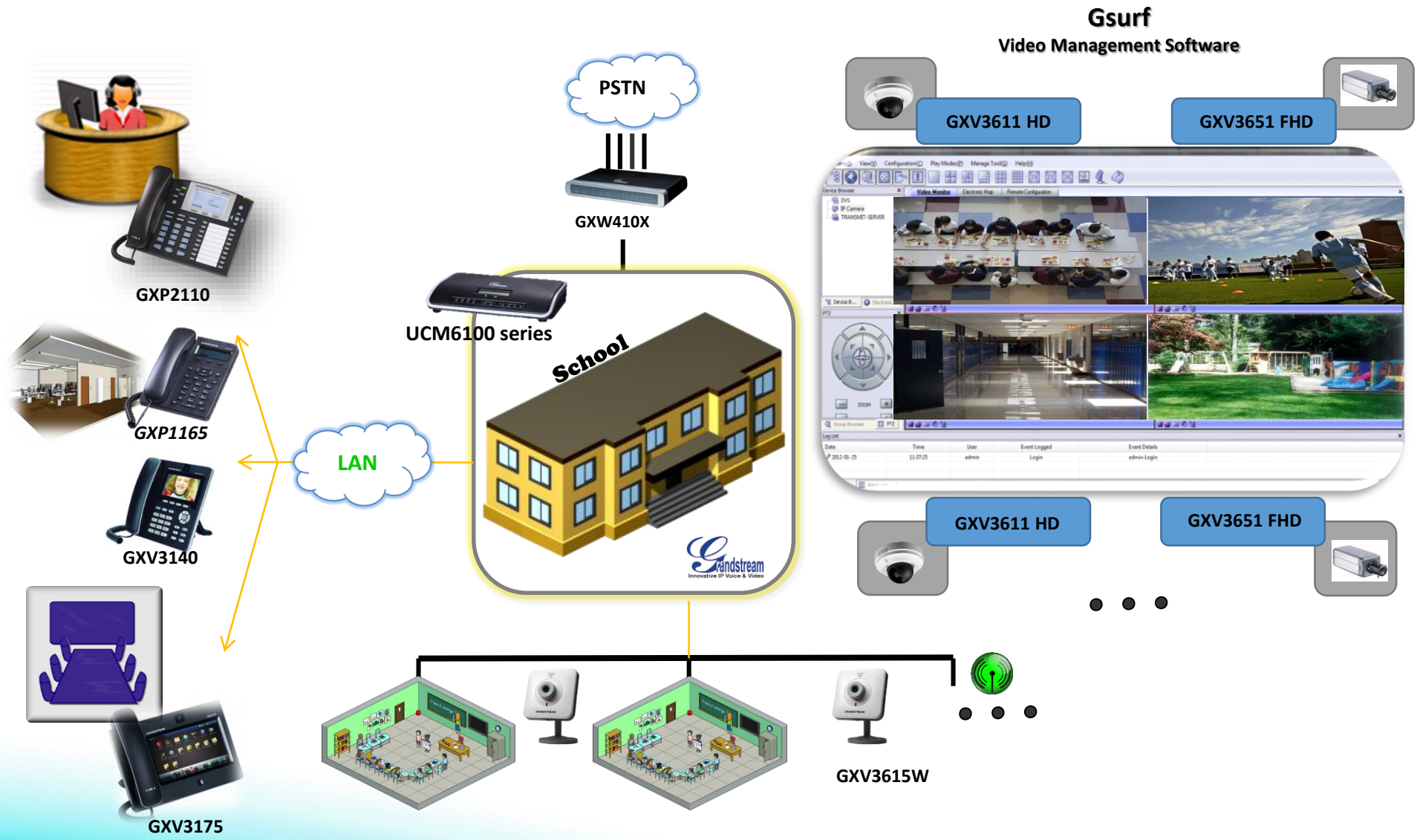
- Client/Server architecture with e-Map support
 - Install GSurf Pro on a server/central computer on your network so you can run it on other computers simply as a client
- Two-way audio/video monitoring and alarming
- Simultaneous playback/recording of up to **72 cameras**
- Zero recurring costs or licensing fees – (GSurf Pro is included with all Grandstream surveillance products)



SMB Example



School Example



Bank Example





Thanks!

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www.grandstream.com

