

Grandstream Networks, Inc.

GSurf_Pro

Video Management Software

User Manual

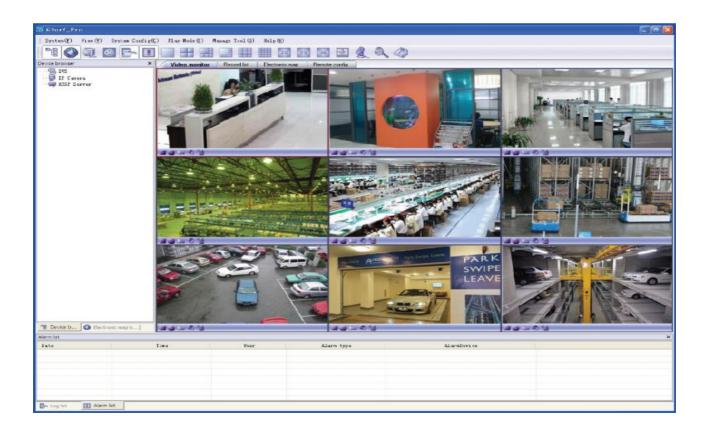






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WELCOME

Thank you for using Grandstream GSurf_Pro Network Video Surveillance System. Based on TCP/IP, Gsurf_Pro utilizes C/S architecture on distributed system, managing up to 10*36 channels. It can effectively reduce the network traffic and cameras' workload by providing the transferring mechanism. Also, users could search and download the recording files remotely via the file management. Featuring functions of electronic map, preview, search, recording, alarm, playback, PTZ and etc., Gsurf_Pro is a powerful monitoring and recording system with intuitive interface as well as easy operation.

This user manual is designed to help you understand how to integrate your cameras and digital video servers with GSurf_Pro software.

∧ _{Note:}

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

http://www.grandstream.com/support

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PRODUCT OVERVIEW

Feature Hightlights

- Built-in transfer server to forward the front-end real-time video streaming across network
- Capability to configure primary stream and secondary stream display according to the PC platform
- Embedded file sharing server for searching and downloading recorded files remotely
- PTZ control
- Integrated tools to synchronize time on the cameras, transform format for the recording files
- 36 channels video streams for group viewing or patrol mode
- Two-way audio/video monitoring and alarm
- Flexible alarm mechanism including relay output control and email alarm

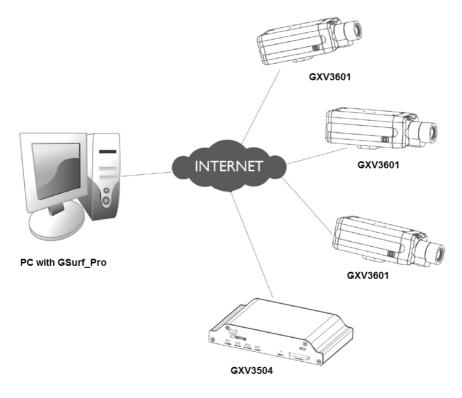


Figure 1: GSurf_Pro Overview





INSTALLATION GUIDE

Minimum Computer System Requirement

SERVER:

Operating System: Windows 2003/2008 Server; Windows XP SP2/SP3; Windows 7 32bit/64bit Processor: Intel® Core™ i3; 2.6GHz or above recommended Memory Capacity (RAM): 4GB or above Hard Drive Capacity: 320G (depending on video recording requirement) Graphics Card Type: Discrete Graphics Card (nVIDIA GEFORCE® GTX660 or above recommended) Network Adapter: 1000Mbps network adapter

CLIENTS:

Operating System: Windows XP SP2/SP3; Windows Vista; Windows 7 32bit/64bit; Windows 8 Processor: Intel® Core 2 Duo ™ or above Memory Capacity (RAM): 2GB or above Hard Drive Capacity: 120G (depending on recording requirement) Graphics Card Type: Discrete Graphics Card recommended Network Adapter: 100Mbps network adapter, 1000Mbps recommended

NOTE:

UPS is required for SERVER to prevent database or video record file corruption caused by power outage.





Install Gsurf_Pro

Click to run the GSurf_Pro installation .exe file. Follow the instructions in the prompted windows to start installation. Once done, the following screen will show.

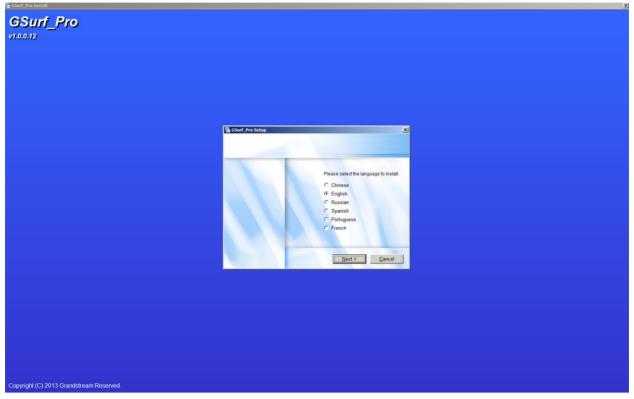


Figure 2: GSurf_Pro Installation

<u>NOTE:</u>

- The initial installation only supporting English.
- Once program installed, user can switch to supported different languages.





Uninstall Gsurf_Pro

To uninstall GSurf_Pro, in your windows PC **Start** Menu->**Programs-**>**GSurf_Pro**, click on **Uninstall GSurf_Pro** to start uninstall process. Or you could uninstall the program from your windows PC's Control Panel.

Login Gsurf_Pro

Click to run GSurf_Pro. The login page will prompt for your User ID and Password. The administrator User ID and Password are both set to *admin* at the factory default settings.

For security purpose, please change the password after the first time you log in to GSurf_Pro.

Gsurf	k Video Surveillance Suctors
Networ	k Video Surveillance System
User ID: Password:	
Remember	er Me Auto Login Logout Auth
All Rights Reserv	ed Grandstream Networks, Inc. 2009

Figure 3: GSurf_Pro Login





Gsurf_Pro Main Window

	🧭 GSurf_Pro					
()		ystem Config(<u>C</u>) Play M			<u> </u>	
	Device browser	× Vide	o monitor Record			
$\overline{\frown}$	DVS					
(2)	RTSP Server					
\bigcirc						
			0 🕯	. 0 1	a a 2 2 1	a a 🖉 😳 🔨 😭
3						
	Bevice browser	ectronic map	<i>1</i> 0 °e)		 0 10 10	
	12					
\frown						
$\left(\begin{array}{c} 4 \end{array}\right)$						
4		<u>,</u> ,	01	.		
		\searrow				
	Zoom					
	PTZ Group view		0 1	 	II 🖉 🖂 🖉 🗑	
	og list				D = 1 + 1 + 4	
\frown	Date 2013-01-14	Time 14:15:41	User admin	Operation type Login	Detailed info admin Login	
5						
\smile						
	🖾 Log list 🔢 Alarm list					

The GSurf_Pro user interface is designed for ease-of-use to offer quick access to cameras and recording in the system. Please refer to the following figure and table for main window descriptions.

Figure 4: GSurf_Pro Main Window

Table 1: Gsurf_Pro Main Window Items

1	Toolbar	Quick access to designated functions
2	Device Browser	View, add and manage devices; view electronic map
3	Video Display	Display up to 36 video streams. Double clicking on one video will display its primary stream in full window.
4	PTZ Control	PTZ control (PTZ device is required on the camera)
5	Log List	View operation log and alarm log





Gsurf_Pro Toolbar

Table 2: GSurf_Pro Toolbar Icons

	Browse and manage the connected DVS or cameras
	Open Electronic Map Browser. Right click to add a new map
	Open Group View panel, manage groups and video channels.
	Open RS-485 panel for PTZ control
	Display log list
	Display alarm list
20 25 36	Choose different number of channels to be displayed on the main window (max number 36).
1	Open/hide play bar in each video display window.
	Send audio (broadcasting) to selected device in the list
	Search all the cameras' IP within the same LAN
	Show GSurf_Pro software information





Gsurf_Pro Video Play Bar

In the video display window, each video channel has a play bar on the bottom.



Figure 5: GSurf_Pro Video Display Window - Play Bar

Table 3: GSURF_Pro Video Play Bar Icons

	Stop the displayed video in the channel
	Start recording the video in the channel. By default, the recorded video file will be saved in directory C:\Record
	Capture a snapshot of the current video in the channel. By default, the captured snapshot will be saved in directory C:\Snapshot
0	Turn on/off sound of the current channel. The default setting is off
*	Turn on/off two-way audio of the current channel. The default setting is off





CONFIGURATION GUIDE

After installing GSurf_Pro, it must be configured for your network cameras or digital video servers. This section describes how to configure GSurf_Pro, as well as how to set up auto recording, motion detection, alarms and etc.

Add/Delete Device

Add Device

- 1. In the top Menu bar, click **System Config->Device Config**.
- 2. In the Device Configuration window, click **Add** button to open the **Add Device** dialog.
- 3. Enter the device information.
 - **Device Name:** Enter a name for the device.
 - **Device Type:** Select the device type, DVS or IPCAM.
 - **Count of channels:** Select the number of channels that your device supports. For example, the GXV3504 has 4 channels.
 - **IP:** Enter the IP address of the device.
 - **Domain Name:** Enter the domain name of the device.
 - **RTSP Port:** Enter the RTSP port for video streaming. If the device's web access port is 80, enter 554 as RTSP Port. Otherwise, add 2000 to the device's web access port and enter here.

4. Click **Ok** to save.

After successfully adding the device, users could view the video by double-clicking on the device name in the **Device browser** panel on the left.





Device Configuation			23
Add Delete	Delete all Batch	Configuration	
DVS			
	Add Device		
	Device Name	Device 1	
	Device Type	IPCAM	
	Count of channels	1	
	IP IP	10 . 0 . 0 . 148	
	🔘 Domain Name		
	Username	admin	
	Password	•••••	
	RTSP Port	554	
	Ok	Cancel	

Figure 6: Add Device

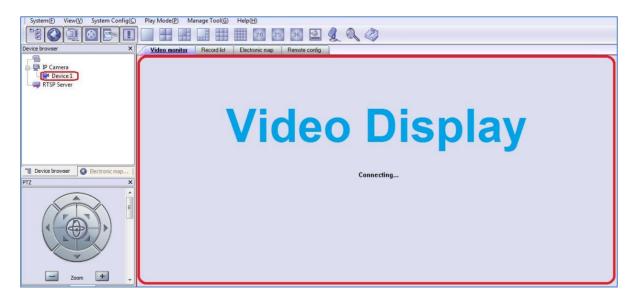


Figure 7: Video Display After Adding Device





Delete Device

- 1. In the top Menu bar, click **System Config->Device Config**.
- 2. In the **Device Configuration** window, Select the device to be deleted.
- 3. Click Delete button.
- 4. Or, users could click on **Delete all** to remove all the added devices.

Device Configuation		X
Add Delete Delet	e all Batch Configuration]
DVS IP Camera Device 1	IP Camera attributes Device Name IP Domain Name RTSP Port Transmission Protocol Username Password Alarm action rule Motion Detection Alarm Input	Device 1 10 , 0 , 0 , 148 554 RTSP-TCP admin •••••• Choose a alarm action rule Choose a alarm action rule
	Auto Record	Choose a time schedule Save

Figure 8: Delete Device





Search Device

The built-in Search tool in GSurf_Pro allows user to search all the DVS and IP Camera devices within the same LAN. Additionally, users could modify the IP address for the devices listed in the searching result.

Search Device

1. In the GSurf_Pro toolbar, click



2. In the Search tool, click Search button. A list of surveillance devices will display in the list.

ndex	Model	Version	IP	HTTP Port	RTSP Port	
7	IPCAMERA GXV3662FHD	1.0.1.68	10.0.0.189	8089	10089	
3	IPCAMERA GXV3662FHD	1.0.1.68	10.0.0.188	8088	10088	
9	IPCAMERA GXV3662HD	1.0.1.68	10.0.0.177	8077	10077	
0	IPCAMERA GXV3662HD	1.0.1.68	10.0.0.151	8051	10051	
1	IPCAMERA GXV3651FHD	1.0.1.68	10.0.0.175	8075	10075	
2	IPCAMERA GXV3615WP_HD	1.0.1.68	10.0.0.170	8070	10070	
3	IPCAMERA 3601LL	1.0.4.38	10.0.0.178	8078	10078	
4	IPCAMERA 3611HD	1.0.4.38	10.0.0.171	8071	10071	
5	IPCAMERA 3611HD	1.0.4.38	10.0.0.184	8084	10084	
6	IPCAMERA 3611HD	1.0.4.38	10.0.0.181	8081	10081	
7	IPCAMERA 3601	1.0.4.38	10.0.0.166	8066	10066	
8	IPCAMERA 3601LL	1.0.4.38	10.0.0.169	8069	10069	
9	IPCAMERA 3601	1.0.4.38	10.0.0.167	8067	10067	
20	IPCAMERA 3601	1.0.4.38	10.0.0.172	8072	10072	
IP Ad	dress Configuration	2	iearch	Adi Wifi Configuration		
IP Ad	dress Configuration	Old IP	iearch .	Wifi Configuration		
IP Ad	dress Configuration			Wifi Configuration		
IP Ad	dress Configuration	Old IP		Wifi Configuration		
IP Ad	dress Configuration	Old IP Use DHCP New IP Sub net mask		Wifi Configuration		
IP Ad	dress Configuration	Old IP	•	Wifi Configuration		
IP Ad	dress Configuration	Old IP Use DHCP New IP Sub net mask		Wifi Configuration		
IP Ad	dress Configuration	Old IP Use DHCP New IP Sub net mask		Wifi Configuration		
IP Ad	dress Configuration	Old IP Use DHCP New IP Sub net mask		Wifi Configuration		

Figure 9: GSurf_Pro Search Tool - Search Devices





Modify IP

1. Select the device in the searching result.

2. To set up new static IP, input the new IP, subnet mask and gateway, then click on **Modify IP** button. To make sure the new static IP is available in the network, after filling out the new IP address, click on **Ping** button and the result will show in the prompted message.

3. To set up new IP with DHCP, user could check the option **Use DHCP** so a new IP will be automatically assigned.

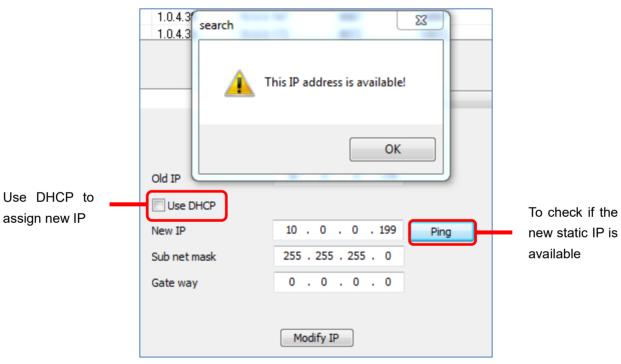


Figure 10: GSurf_Pro Search Tool - Modify IP





Configure Time Schedule

The GSurf_Pro time schedule is used to configure automatic recording. Up to 10 schedules can be configured.

1. In the top Menu bar, click **System Config->Time Schedule**.

2. The **Time Schedule** window will pop up.

3. Select a schedule on the left panel to be configured.

4. Select the time frame for each day. The scheduled interval will be marked in blue (See Figure 11: Gsurf_Pro Time Schedule).

5. Click **Save** button.

Time schedule name			
All Day	Schedule 3	Save	
Work Time		0:00 6:00 12:00 18:00 0:00	
Schedule 3	sunday		
Schedule 4			
Schedule 5			
Schedule 6		0:00 6:00 12:00 18:00 0:00	
Schedule 7	monday		
Schedule 8	monualy	1111111111.	
Schedule 9			
Schedule 10		0:00 6:00 12:00 18:00 0:00	
	Tuesday		
	Tuesuay		
	We do a side	0:00 6:00 12:00 18:00 0:00	
	wednesday		
		0:00 6:00 12:00 18:00 0:00	
	Thursday		
		0:00 6:00 12:00 18:00 0:00	
	Firday		
		0:00 6:00 12:00 18:00 0:00	
	Satuarday		

Figure 11: Gsurf_Pro Time Schedule

- 6. To assign this schedule to a device, open **System Config->Device Config**.
- 7. Select the device from which you would like to record the videos.
- 8. In Auto Record option, select schedule from the drop down list.
- 9. Click Save button.





This channel will then start automatically recording as specified in the designated time schedule.

Additionally, users could select **Batch Configuration** to assign the same time schedule to multiple devices.

Device Configuation		×
Add Delete Delete a	Batch Configuration	
DVS	IP Camera attributes	
	Device Name	Device 1
	IP IP	10 . 0 . 0 . 148
	🔘 Domain Name	
	RTSP Port	554
	Transmission Protocol	RTSP-TCP
	Username	admin
	Password	••••
	Alarm action rule	
	Motion Detection	Choose a alarm action rule
	Alarm Input	Choose a alarm action rule 💌
	Auto Record	Schedule 3 👻
		Save

Figure 12: GSurf_Pro Auto Record Time Schedule





Configure Alarm Triggers and Rules

Grandstream's network cameras and digital video servers support motion detection and alarm events. They can report motion detection or alarm events to GSurf_Pro. On the GSurf_Pro side, it can be configured to take actions, i.e., to notify such events to users. Up to 10 rules can be set up with different alarm actions. The instructions below will assist you with this setup.

1. In the top Menu bar, click System Config->Alarm Config.

2. In the Alarm action rule window, select the Alarm index and configure the action.

- **Sound:** If it's checked, GSurf_Pro will play a sound when receiving an alarm report. Make sure to select a sound file and the duration for it to play.
- **Record:** If it's checked, GSurf_Pro will record the video upon receiving an alarm report. Users could also select the duration for the recording.
- **Pop up video window:** If it's checked, a pop up video window will appear on receiving an alarm report.
- **Warning on the E-map:** If it's checked, the corresponding icon of that channel in the electronic map will flash in red upon receiving an alarm report.
- Save to database: If it's checked, the alarm event will be written to the alarm log.

dex	Alarm action rule					
	Trigger 1	Alarm action rule name	Ir	igger 1		
2	Trigger 2	✓ sound				
	Trigger 3	sound				
1	Trigger 4	Sound Type		System	n sound	-
;	Trigger 5	Sound Type		Syster	ii sounu	
i	Trigger 6					
7	Trigger 7					
3	Trigger 8	Duration time(seconds)	5	-	Play S	ound
9	Trigger 9					
10	Trigger 10	Record				
		Record duration time(second	s) 30	-		
		Pop up video window				
		Warning on the E-map				
		Save to database				
			5	Save		

3. Click **Save** button to save the settings.

Figure 13: GSurf_Pro Alarm Action Rule

4. To assign this alarm action rule to a device, open **System Config->Device Config**.





5. In the **Device Configuration** window, select the device.

6. Select an Alarm action rule for **Motion Detection** to monitor motion detection events; select an alarm action rule for **Alarm Input** if you would like to monitor alarm input events.

7. Click **Save** button to save the settings.

Device Configuation		X
Add Delete Delete all	Batch Configuration	
	Batch Configuration IP Camera attributes Device Name IP Domain Name RTSP Port Transmission Protocol Username Password Alarm action rule Motion Detection	Device 1 10 . 0 . 0 . 148 554 RTSP-TCP admin •••••
	Alarm Input Auto Record	Trigger 1 Choose a time schedule Save

Figure 14: Assign Alarm Action Rule To Device

Additionally, users could select **Batch Configuration** to assign the same alarm action to multiple devices.

Local Configuration

Click on **System Config->Local Config** to configure software and local recording features for GSurf_Pro.





Software Configuration

Configure log reserved days, video window layout and startup options.

Record Config

- **Record Path:** This section displays name, total space and free space of the local disks. Users could select the local disk to store recorded video files. If users select multiple disks, GSurf_Pro will start from the first disk until the free space equals the reserved space, and then go to the next one.
- **Reserved free space:** Configure the reserved free space for the disk. When the disk free space is less than the reserved free space (1 GB in this example), the video will be recorded in the next selected disk.
- **Record file duration time:** Configure the duration for each recording file.
- **Disk Full:** When the disk is full, users could choose to stop recording, or keep recording while storing new recording by deleting the old files.
- Capture Path: Configure the path to save the snapshot pictures.

						×
Soft	ware configuration Re	ecord config				
□R	ecording Folder					ا
	Record di 1	fotal space(G)	Left free space	e(G)		
	🗖 🖉 😋	200.00	129.70			
	🗹 🔐 D:	265.66	181.49			
S	plit files every(Min):				30 💌	
R	eserved free space(GB)			1	
⊢ D	elete the foremost files	s when disk is fi	ull!			
	C Delete by da	te(The earliest	day in disk)			
	Oelete by file	•	Delete operation will free(GB	3)	20 💌	
						_
С	apture Folder		D:\Snapshot\			
					Ok	Cancel

Figure 15: GSurf_Pro Local Configure - Record Configure





Device Configuration

Click **System Config->Device Config**, the device configuration window will prompt for users to add, delete and edit devices. Once a device is selected, users could configure the device properties, alarm action rule and record option.

- Device Properties: Device Name, Device IP, Domain Name, RTSP Port and Transport protocol.
- Alarm Action Rule: Select alarm action rule for motion detection and alarm input.
- Auto Record: Select time schedule for auto record.

Language Display

In the GSurf_Pro interface, users could switch language at any time. Go to **System Config->Language** and select the language to be displayed.

Court Due												
🦉 GSurf_Pro												
System(<u>F</u>) View(<u>V</u>)	Sys	tem Config(<u>C</u>)	Play Mode(<u>P</u>) M	lanag	ge Tool(<u>G</u>) Help	Ξ						
16 🔇 17		Time Schedule(D				20 25	36	2	2	Q	$\langle \rangle$
Device browser		Alarm Config(<u>A</u>)	tor	Record list	Elec	tronic map	Remote	e config			
DVS		Local Config(L)										
GXV3651FHD_		Device Config(2)									
GXV3672HD		Server Config(5)									
RTSP Server												
		Language	Þ	\checkmark	English(<u>E</u>)							
					Chinese(C)							
					Russian(<u>R</u>)							
					Spanish(<u>S</u>)							
					Portuguese(P)							
					French(<u>F</u>)							

Figure 16: Language Display





Record Configuration

Manual Record

In the video display window, click on the Record button to start recording.

Figure 17: Manual Record

Automatic Record

The automatic record will be running in the background. The recording time is specified in **Auto Record** option after selecting device under **System Config->Device Config**.

Device Configuration		
Add Delete Delete all	Batch Configuration	
DVS IP Camera DVS IP Camera DVS IP Camera	IP Camera attributes	
Device I	Device Name	Device 1
	IP	10 . 0 . 0 . 148
	O Domain Name	
	RTSP Port	554
	Transmission Protocol	RTSP-TCP 💌
	Username	admin
	Password	•••••
	Alarm action rule	
	Motion Detection	Choose a alarm action rule 💌
	Alarm Input	Choose a alarm action rule 💌
	Auto Record	Choose a time schedule Al Day Work Time Schedule 4 Schedule 4 Schedule 5 Schedule 6 Schedule 6 Schedule 8
		Schedule 9 Schedule 10

Figure 18: Automatic Record

Note: It is recommended to use continuous recording only and not combine it with recording by motion detection.





Replay

The GSurf_Pro Replay tool provides the ability to replay recorded videos. It also provides a search function which allows you to perform a search based on start time, end time, IP address, channel and etc. To replay the recorded video, in the top Menu bar, go to **Manage Tool**->**Replay Tool** to open the Replayer. Select time, device, channel, file type and disk to search the video. Then click on the video file to play.

🧭 GSurf_Pro			
System(E) View(V) System Config(C)	Play Mode(P) Manage Tool(G) Help(H)	Replayer	
16 🔇 🖳 🖸 🕞 🔳	2	2 System(<u>S</u>) View(<u>V</u>) Help(<u>H</u>)	
Device browser X	Video monitor Record list Electroni	Quest	
DVS			
🖶 🗐 IP Camera		Start time 1/15/2013 - 12:00:00 AM -	
Device 1 RTSP Server			
KISP Server		End time 1/15/2013 • 11:59:59 PM 🙀	
	Connecting		
		Search type Device name	
		Device name All 👻	
	📓 🍓 🔟 🥘 😭 Device 1	Chanel ID All	
Bevice browser Sectoric map		File type	
PTZ X			
		Remote search	
		Start disk C:\	
		End disk C:\	
	I I I I I I I I I I I I I I I I I I I		
		1	
Zoom +		Search	
Focus +			
Aperture +		Open	
			/00:00 Export
PTZ rotating speed 16		P Quest D Time section III	4
Group view	a a c 0 1	Fie ist	
Log list			hanel Type
Date Time 2013-01-15 10:35:5			
10000			
		File list Downloading Downloaded	,
🖏 Log list 🔲 Alarm list		Bar Free Har Downloading Bar Downloaded	
Alarm list			

Figure 19: Replayer

In the Replayer, users could also open up the Time selection tab to specify the recorded files by filtering the start time. All the configured start time will be marked in green in the time chart.

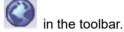




Electronic Map

E-map is an important feature in video surveillance system to provide users a visual overview of the cameras in your installation. A map is an image file on which you place cameras and views. GSurf_Pro supports an electronic map for users to identify the locations of your cameras and the status of their alarms.

To configure E-map on GSurf_Pro, open the map browser by clicking



Add Map

- 1. In the Electronic map browser, right click and **Add map** option will show up.
- 2. Choose a map image from your local PC to upload. Then it will be displayed in the electronic map field.

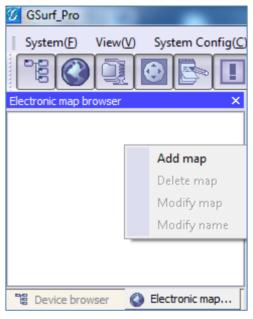


Figure 20: Add Map

Note:

The supported image files are bmp, jpg or gif. GSurf_Pro will display the electronic map in full resolution. And the users can use the scroll bars to view the whole image.





Add Device to Map

 $\odot \odot$

- 1. Open your map in the main window.
- 2. In the left side panel, click on Device browser so your devices will show in the list.
- 3. Click on the device/channel, drag and drop it to the preferred destination on the map.

4. An icon with the device name and the channel number will now be shown on the map. Right click

on the icon to change the icon settings.

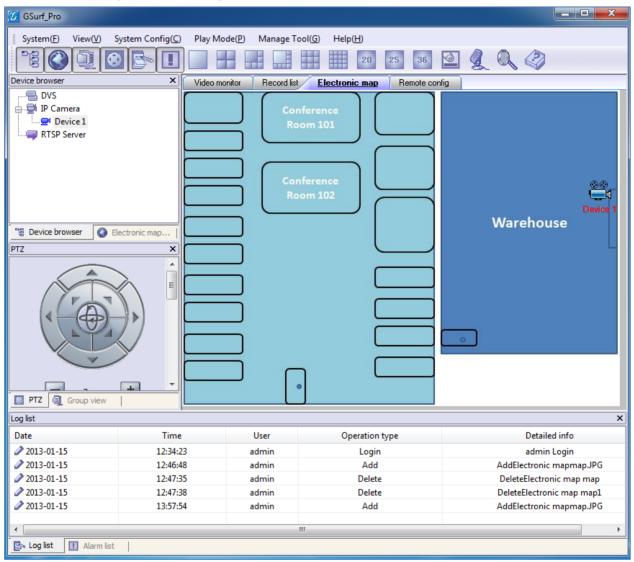


Figure 21: Add Map Alarm





Set Alarm on Map

1. After adding the device to the map, go to **System Config->Alarm Config** to configure alarm action rule. Make sure the option **Warning on the E-map** is checked.

2. Go to **System Config->Device Config**. Select your device and configure the alarm action rule set up in step 1.

3. When GSurf Pro receives an alarm report, the corresponding icon on the map will flash in red

Lock/Unlock Map

To avoid changing the positions of cameras on the map accidently, the users can lock the map after adding all devices. Right click on the map, lock/unlock option will be available in the pop-up menu,

When the map is unlocked, users could drag devices to the map. When the map is locked, double-clicking on the camera will open up a new window for real time video from this camera.

Remove Device from Map

On the map, right click on the icon and click **Delete Icon** to remove the device from the map.

Remote Configuration

The IP Camera devices can be remotely accessed via web browser. Select a device on the left side panel and click on Remote config tab to access the camera's web GUI.





1 GSurf_Pro		
System(E) View(V) System Config(C) Play Mode(<u>P</u>) Manage Tool(G	G) Help(H)
		20 25 36 🧕 🧟 🖓
Device browser X	Video monitor Record list	Electronic map Remote config
DVS DVS P Camera GV3672HD Front Left GXV3662 - Front Door Center GV3672FHD 4.2 Front Right	Grändstream	GXV3662HD Administration Interface
	Home	Current System Time Date: 2013-01-15
< III >	Basic Settings	Date. 2013-01-13
12 Device browser O Electronic map		Time: 14:25:18
PTZ X	System	Set the System Time
	Video & Audio	Time Zone: GMT-08 (Las Vegas, San Francisco, Vancouver)
	CMOS Settings	,
	Networking	C Update via NTP Server
	DDNS	O Synchronize with Local Computer
		C Set the Time Manually
~	SIP	Keep Current Date and Time
- Zoom +	Status	
	Advanced Settings	Save
		OSD Date Format
Aperture +		OSD Date Format: MM/DD/YYYY 💌
PTZ rotating speed 16		
Preset position 0		Save
Set Cal Clear		Device Name Setting
Brightness		Device Name: GXV3662 - Front Door Center
Contrast -()		
Group view 🔐 PTZ		Save
Alarm list	J.	

Figure 22: Remote Configuration

PTZ Control

In the toolbar, click to open PTZ control panel. If the connected devices are PTZ cameras or have a PTZ device connected, users can use the console to adjust the focus, brightness, contrast, rotating speed, IRIS, and also pan/tilt the devices.

Note:

Before using PTZ control, PTZ device needs to be set up in RS-485 port and properly configured.





Video Monitor

Individual View

Drag the device from the device browser to video display window to watch the video immediately.

Group View/Patrol Mode

1. In the tool bar, click on



to open the Group view panel.

2. Drag the device in Device browser panel to the group in Group view panel.

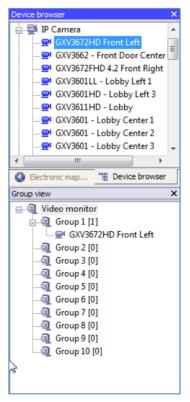


Figure 23: Add Device To Group

3. Right click on the group to configure the group attributes. Check the **Allow Patrol** option and configure **Pause time** which is the patrol interval for the group.





Group view	×	
⊡…i Video monitor		
🖕 🗐 Group 1 [1]		
	ront Left	
🖨 🗐 Group 2 [1]		
🖃 GXV3601LL -	Lobby Left 1	
		📕 🍙 🔟 🕘 🗑 GXV3662 - Front Door Center
	Carry Attailuter	
	Group Attribute	s 🔀
	Group Name	Group 2
	Pause Time	10 S (Longer than 10s is recommended)
	r dabe rime	
🋄 Group 10 [0]	Video Display	y 9 🔻
	🔲 Allow Pat	rol
		Ok

Figure 24: Configure Group Attributes For Patrol Mode

4. Click **Ok** to save the settings.

5. In the top Menu bar, click on **Play Mode->Patrolling View** to start playing videos from different groups in a loop.





Broadcast



- button to open up broadcast window. 1. In the tool bar, click the
- 2. Add broadcast device by selecting the devices from the left side list to the right side list.
- 3. Click Start Broadcasting button to start sending audio from PC's microphone.

🕵 Broadcast					
de		d	le		
Device list (43)	-	==>>	Broadcast list (42)		
🛒 IP960 - WH Center			🕎 IP960 - WH Center		Start broadcasting
GXV3672_HD WH Center Corner		<<==	🕎 GXV3672_HD WH Ce	Ξ	
GXV3672_HD WH Cargo Check			🛒 GXV3672_HD WH Ca		
🛒 GXV3662 - Front Door Center			🛒 GXV3662 - Front Doo		
🛒 GXV3601 - WH Rear Left			🛒 GXV3601 - WH Rear		
🛒 GXV3601 - WH Rear Right	Ξ		🛒 GXV3601 - WH Rear		
🛒 GXV3601 - 180			ਦ GXV3601 - 180		
🛒 GXV3601HD - 182			ਦ GXV3601HD - 182		
GXV3611HD - WH Rear Right			🕎 GXV3611HD - WH Re		
GXV3611HD-Warehouse			GXV3611HD-Wareho		
GXV3611LL-Right Rear 1			🕎 GXV3611LL-Right Re		
GXV3611HD - WH Rear Right 4			🕎 GXV3611HD - WH Re		
GXV3611HD - WH Rear			GXV3611HD - WH Re	-	
🛒 GXV3601					
GXV3601LL - Lobby Left 1					
🛒 GXV3601LL - Pillar 1 Bottom					
GXV3611HD - Lobby					
GXV3601LL - WH Pillar 2 Bottom					
GXV3662FHD - Cargo Check 1					
GXV3662FHD - Cargo Check 2					
GXV3651FHD - Cargo Check 5					
GXV3601 - Lobby Center 2					

Figure 25: Broadcast





Synchronize Device Time

In the top Menu bar, click on **Manage tool->Synchronize device time**. Then users could sync up the device time with local PC time.

Device Lame Result IP960 - WH Center IP960 - WH Center Corner GKV3672_HD WH Center Corner SW3672_HD WH Center Corner GKV3672_HD WH Cargo Check Right GW3672_HD WH Cargo Check Right GKV3662 - Front Door Center SW3672_HD WH Cargo Check Right GKV3601 - WH Rear Left Swccess GKV3601 - WH Rear Right GW3671 - WH Rear Right GKV3601 - WH Rear Right GW3672 - Front Door Center GKV3601 - WH Rear Right GW3672 - Front Door Center GKV3601 - WH Rear Right GW3672 - Front Door Center GKV3601 - WH Rear Right GW3672 - Front Door Center GKV3601 - WH Rear Right GW2682 GKV3601 - 180 Success GKV3601 + NH Rear Right GW2682 GKV3601 + NH Rear Right Success GKV3611HD - WH Rear Right Success GKV3611HD - WH Rear Right Success GKV3611HD - WH Rear I Success GKV3611HD - WH Rear I Success GKV3611HD - WH Rear I Success GKV3611LL Right Rear 1 Success Device time Open Auto Synchronize Date: 2013-01-09 Time:	DeviceTimeConifg					
GXV3872_HD WH Center Corner Success GXV3872_HD WH Cargo Check Right GXV3872_HD WH Cargo Check Right Failed GXV3862 - Front Door Center GXV3862 - Front Door Center GXV3601 - WH Rear Left GXV3601 - WH Rear Right GXV3601 - WH Rear Right GXV3601 - WH Rear Right GXV3601 - WH Rear Right GXV3601 - WH Rear Right GXV3601 - WH Rear Right GXV3601 - 180 GXV3601 - WH Rear Right GXV3601 - 180 GXV3601 - 182 GXV3601 - 180 GXV3601 - WH Rear Right GXV3601 - 180 GXV3601 - 182 GXV3601 - 180 GXV3611HD - WH Rear Right Success GXV3611LL-Right Rear 1 Success Device time Open Auto Synchronize Date: 2013-01-09 Time: Tim	Device			^	Device name	Result
GXV3672_HD WH Center Corner Success GXV3672_HD WH Cargo Check Right GXV3672_HD WH Cargo Check Right GXV3672_HD WH Cargo Check Right GXV3672_HD WH Cargo Check Right GXV3672_HD WH Cargo Check Right GXV3672_HD WH Cargo Check Right GXV3672_HD WH Rear Left GXV3672_HD WH Rear Left Success GXV3601 · WH Rear Right GXV3601 · WH Rear Right Failed GXV3601 · 180 Success GXV3601 · 180 Success GXV3611HD · WH Rear Right GXV3601 · 180 Success GXV3611HD · WH Rear Right Success GXV3611HD · WH Rear Right Success GXV3611HD · WH Rear Right Success Success GXV3611HD · WH Rear Right Success GXV3611HD · WH Rear Right Success Success GXV3611LL Right Rear 1 Success GXV3611HD · WH Rear Right Success Success Device time Interval Interval Interval Interval Min Date:	🛋 IP960 - WH Cente	er			🛋 IP960 - WH Center	Success
GXV3662 - Front Door Center Success GXV3601 - WH Rear Left GXV3601 - WH Rear Right Failed GXV3601 - 180 GXV3601 - 180 Success GXV3601 HD - 182 GXV3601 HD - 182 Success GXV3611HD - WH Rear Right GXV3601 HD - 182 Success GXV3611HD - WH Rear Right GXV3601 HD - 182 Success GXV3611HD - WH Rear Right GXV3601 HD - 182 Success GXV3611HD - WH Rear Right GXV3601 HD - 182 Success GXV3611HD - WH Rear Right GXV3601 HD - 182 Success GXV3611HD - WH Rear Right Success GXV3611HD - WH Rear Right Success GXV3611HD - WH Rear 1 Success GXV3611HD - WH Rear Right Success GXV3611HL - Right Rear 1 Success GXV3611HD - WH Rear Right Success Device time Open Auto Synchronize Interval Interval Min Date: 2013-01-09 Time: 16:38:38 Run when Windows starts Computer time: Success Success Run when Windows starts	🛋 GXV3672_HD W	H Center Corner			GXV3672_HD WH Center Corner	Success
GXV3601 · WH Rear Left GXV3601 · WH Rear Left Success GXV3601 · WH Rear Right GXV3601 · WH Rear Right Failed GXV3601 · 180 GXV3601 · WH Rear Right GXV3601 · WH Rear Right Success GXV3601 HD · 182 GXV3601 HD · 182 GXV3601 HD · 182 Success GXV3611HD · WH Rear Right GXV3611HD · WH Rear Right Success GXV3611HD · WH Rear Right Success GXV3611HD · WH Rear 1 GXV3611HD · WH Rear 1 Success GXV3611HD · WH Rear 1 Success GXV3611LL-Right Rear 1 GXV3611LL-Right Rear 1 Success GXV3611LL-Right Rear 1 Success Device time Get time Synchronize time Interval 1 Min Date: 2013-01-09 Time: 16:38:38 Run when Windows starts Computer time: Success Run when Windows starts Run when Windows starts	🛋 GXV3672_HD W	H Cargo Check Right			🛋 GXV3672_HD WH Cargo Check Right	Failed
GXV3601 · WH Rear Right GXV3601 · WH Rear Right Failed GXV3601 · 180 Success GXV3601 · 182 Success GXV3601 · WH Rear Right GXV3601 · 180 GXV3611HD · WH Rear Right Success GXV3611HD · WH Rear I Success GXV3611LL-Right Rear 1 Success GXV3611LL · Right Rear 1 Success Device time Open Auto Synchronize Date: 2013-01-09 Time: 16:38:38 Run when Windows starts Computer time: Interval	🛋 GXV3662 - Front I	Door Center			📾 GXV3662 - Front Door Center	Success
GXV3601 - 180 GXV3601 HD - 182 GXV3601 HD - 182 Success GXV3601 HD - 182 GXV3601 HD - 182 Success GXV3611 HD - WH Rear Right GXV3601 HD - 182 Success GXV3611 HD - WH Rear Right GXV3601 HD - 182 Success GXV3611 HD - WH Rear Right Success GXV3611 HD - WH Rear Right Success GXV3611 HD - WH Rear Right Success GXV3611 HD - WH Rear Right Success GXV3611 HD - WH Rear I Success GXV3611 HD - WH Rear I Success GXV3611 HD - WH Rear I GXV3611 HD - WH Rear I Success Success GXV3611 HD - WH Rear I GXV3611 HD - WH Rear I Success Success GXV3611 HD - WH Rear I GXV3611 HD - WH Rear I Success Success IP960 - WH Center Get time Synchronize time Interval Min Date: 2013-01-09 Time: 16:38:38 Run when Windows starts Computer time: Image: Success Image: Success Image: Success Image: Success	🛋 GXV3601 - WH R	lear Left			📾 GXV3601 - WH Rear Left	Success
GXV3601HD - 182 Success GXV3611HD - WH Rear Right Success GXV3611HD - WH Rear I Success GXV3611LL-Right Rear 1 Success GXV3611LL-Right Rear 1 Success GXV3611LL - Right Rear 1 Success Device time Open Auto Synchronize Interval 1 Min Date: 2013-01-09 Time: 16:38:38 Computer time: Success Run when Windows starts	🛋 GXV3601 - WH R	lear Right			📾 GXV3601 - WH Rear Right	Failed
GXV3601HD - 182 Success GXV3611HD - WH Rear Right Success GXV3611LL-Right Rear 1 Success Get time Synchronize time IP960 - WH Center Get time Synchronize time Device time Interval 1 Min Date: 2013-01-09 Time: 16:38:38 Run when Windows starts Computer time: Interval 1 Min	🛋 GXV3601 - 180				📾 GXV3601 - 180	Success
GXV3611HD-Warehouse Success GXV3611LL-Right Rear 1 Success GXV3611LL-Right Rear 1 Success IP960 - WH Center Get time Device time Open Auto Synchronize Date: 2013-01-09 Time: 16:38:38	🛋 GXV3601HD - 18	2		<=	🚘 GXV3601HD - 182	Success
GXV3611LL-Right Rear 1 GXV3611LL-Right Rear 1 Success IP960 - WH Center Get time Get time Synchronize time Open Auto Synchronize Interval 1 Min Date: 2013-01-09 Time: 16:38:38 GXV3611LL-Right Rear 1 Success	🛋 GXV3611HD - W	H Rear Right			📾 GXV3611HD - WH Rear Right	Success
IP960 - WH Center Get time Synchronize time Device time Open Auto Synchronize Date: 2013-01-09 Time: 16:38:38 Computer time: Interval Run when Windows starts	🛋 GXV3611HD-Wa	rehouse			🚘 GXV3611HD-Warehouse	Success
IP960 - WH Center Get time Synchronize time Device time Open Auto Synchronize Date: 2013-01-09 Time: 16:38:38 Computer time: If 2013-01-09 Time: If 2013-01-09	🛋 GXV3611LL-Righ	t Rear 1			📾 GXV3611LL-Right Rear 1	Success
Device time Date: 2013-01-09 Time: 16:38:38 Computer time: Date: 2013-01-09 Time: 16:00000000000000000000000000000000000		U.D. D. L.A.		Ŧ		-
Date: 2013-01-09 Time: 16:38:38 Run when Windows starts Computer time:		er		Get time		hronize
Computer time:	Date:	2013-01-09	Time:	16:38:38	Interval 1	Min
					📃 Run when Wind	lows starts
Date: 2013-01-15 Time: 15:49:28	Computer time:					
	Date:	2013-01-15	Time:	15:49:28		

Figure 26: Device Time Configuration





Convert Video Format

The recorded video is saved in H264 format, which might not be supported by certain video players. An AVI converter tool is provided in GSurf_Pro. Click on **Manage tool**->**AVI Conversion Tool** to open the converter. Add video to be converted and the output file will be saved in the configured directory in AVI format.

file name D:\Record\Normal\2013-01-22\192.168.44.105_42-47-1D(192.168.44.105_554)_1_2013_01_22_12_10_34.h264	state 100%	Add
D: \Record\Normal\2013-01-22\GXV3601HD (192. 168. 44. 114_554)_1_2013_01_22_11_41_07. h264	100%	Delete
		Stop
Convert Format: AVI Output directory: D:\Record\Normal\2013-01-22 Open		

Figure 27: Media Convert Tool





User Management

The GSurf_Pro administrator can add, modify and delete users as well as issue users different privilege levels.

1. Click on Manage tool->User Manage.

2. In the User Manage window, users could add, edit and delete users. A list of configuration authorities is provided so each user could be assigned with different privileges.

Figure 28: User Management





Import/Export Configuration

The GSurf_Pro configuration can be imported or exported for backup and restore purpose. Click on **System Config->Export Config** to open the import/export window. Users could also select the configurations for the backup file.

Export/Import Configuration	×
Exported Module	
Device,group info,Time schedule,Alarm action rule,Electronic map,Local configuration,User info,Log info	Export Import
V Alarm Info	
Sound File	

Figure 29: Configuration Import and Export





GSURF_PRO TRANSFER SERVER

The GSurf_Pro embedded transfer server can cooperate with client side to effectively reduce the workload on the front-end cameras. The surveillance system utilizes the transfer server as the medium to monitor the devices in a distributed manner.

Server Side

1. Open the Transfer server from **Manage Tool->Tran Server**. A login window will pop up.

🚜 TransServer	×
User name:	admin
Password:	••••
A 💟	Remember Me
L 4	Auto Login
E L	ogout Auth
Login	Cancel

Figure 30: Transfer Server Login

2. After login, click on **Config->System Config** to open the following server configuration window. The listening IP address is the PC's IP address. For the port number, it is recommended to use default value or big value.





🛃 TransServer	a. at an 👘		30 3	_	The second secon				
System(E) View(V) C	Config(<u>C</u>) Manage	Tool(G) Help(H)							
🕆 💽 🗷 🏂 🔎									
Device browser	× /	Transmit List							
DVS	De	vice Name(Address)	Strea	am Type	Connecting Sessions				
IP Camera									
		Server Configuration			_]				
		Listening IP	10.0.244 👻						
		Port	554						
		Max transfer count	20						
Log list						×			
Date	Time				d info				
2013-01-15	16:43:05	ОК	Cancel		Login				
		UK	Cancer						
		[
					-				

Figure 30: Transfer Server Configuration

- 3. Click on *V* to open the search tool.
- 4. In the search tool, press **Search** button to get a list of devices in the same LAN.
- 5. Select the devices in the result list and click Add.

TransServer				h Device						
System(<u>F)</u> View(<u>V</u>)	Config(<u>C</u>) Manage Tool(<u>G</u>	i) Help(<u>H</u>)	Inde	x Model	Version	Device name	IP	HTTP Port	RTSP Port	MAC
🍈 🏹 📑			1	IPCAMERA GXV3672HD	1.0.1.68	GXV3672HD 4.2	10.0.0.193	8093	10093	00:0B:82:42:47:6D
? 🥊 💆	3 🎢 🥕		2	IPCAMERA GXV3672FHD	0.60.1.68	GXV3672FHD	10.0.0.191	8091	10091	00:0B:82:42:48:15
Device browser			3	IPCAMERA GXV3672FHD	1.0.1.68	GXV3672FHD 4	10.0.0.192	8092	10092	00:0B:82:42:48:0E
	<u>× <u>Tran</u></u>	<u>smit List</u>	4	IPCAMERA IP960	1.0.1.68	IP960 - WH Fac	10.0.0.187	8087	10087	00:0B:82:3C:DF:4B
DVS	Device Na	me(Address)	5	IPCAMERA GXV3662HD	1.0.1.68	GXV3662 - Fron	10.0.0.151	8051	10051	00:0B:82:29:5C:F3
🗄 🚍 IP Camera			6	IPCAMERA 3611HD	1.0.4.38	GXV3611HD-W	10.0.0.171	8071	10071	00:0B:82:24:A1:25
	acing Door		7	IPCAMERA 3601	1.0.4.38	GXV3601 - 180	10.0.0.180	8180	10180	00:0B:82:00:00:00
GXV3672_HD			8	IPCAMERA GXV3615WP_HD			10.0.0.210	80	554	00:0B:82:3E:36:29
	.2 WH Cente Dc =		9	IPCAMERA 3611HD	1.0.4.38	GXV3611HD	10.0.0.181	8081	10081	00:0B:82:26:CB:0A
GXV3672FHD	- Cargo Check 4		10	IPCAMERA 3601	1.0.4.38	GXV3601	10.0.0.179	8079	10079	00:0B:82:20:15:B8
GXV3672FHD	4.2 WH Center [11	IPCAMERA 3611HD	1.0.4.34	GXV3611HD	10.0.0.183	8083	10083	00:0B:82:26:CA:C3
GXV3672FHD	- Cargo Check 3		12	IPCAMERA 3611HD	1.0.4.38	GXV3611HD	10.0.0.184	8084	10084	00:0B:82:26:CA:EE
GXV3662-Back	k Door Outside		13	IPCAMERA 3601HD	1.0.4.38	GXV3601HD - 182		8082	10082	00:0B:82:1D:3B:90
			14	IPCAMERA 360 1LL	1.0.4.38	GXV3611LL-Rig	10.0.0.178	8078	10078	00:0B:82:1F:CA:AA
			15	IPCAMERA GXV3672HD	0.60.1.68	GXV3672_HD W	10.0.0.186	8086	10086	00:0B:82:42:47:00
			16	IPCAMERA GXV3662FHD	1.0.1.68	GXV3662FHD	10.0.0.189	8089	10089	00:0B:82:42:48:3C
GXV3615WP H			17	IPCAMERA GXV3662FHD	1.0.1.68	GXV3662FHD	10.0.0.188	8088	10088	00:0B:82:42:48:4C
GXV3611HD -			18	IPCAMERA GXV3672FHD	0.60.1.68	GXV3672FHD	10.0.0.190	8090	10090	00:0B:82:42:48:0F
< III	4		19	IPCAMERA GXV3662HD	1.0.1.68	GXV3662-Back	10.0.0.177	8077	10077	00:0B:82:2D:29:89
og list			20	IPCAMERA GXV3651FHD	1.0.1.68	GXV3651FHD	10.0.0.175	8075	10075	00:0B:82:2B:40:FC
-			21	IPCAMERA 360 1LL	1.0.4.38	GXV3601LL - W	10.0.0.169	8069	10069	00:0B:82:1F:CA:B0
Date	Time	User	22	IPCAMERA 3601	1.0.4.34	GXV3601 - WH	10.0.0.164	8064	10064	00:0B:82:1F:96:85
2013-01-15	16:43:05	admin	23	IPCAMERA 3601	1.0.4.38	GXV3601-Left R	10.0.0.172	8072	10072	00:0B:82:20:15:81
2013-01-15	16:50:47	admin	24	IPCAMERA 3601	1.0.4.38	GXV3601N - Pill	10.0.0.166	8066	10066	00:0B:82:20:15:C6
2013-01-15	16:51:41	admin	25	IPCAMERA 3601	1.0.4.38	GXV3601 - WH	10.0.0.165	8065	10065	00:0B:82:1F:96:AA
2013-01-15	16:51:41	admin	26	IPCAMERA 3601	1.0.4.38	GXV3601 - WH	10.0.0.168	8068	10068	00:0B:82:20:15:AA
2013-01-15	16:51:41	admin	27	IPCAMERA GXV3615WP_HD	1.0.1.68	GXV3615WP_HD	10.0.0.170	8070	10070	00:0B:82:27:F0:B7
2013-01-15		admin	28	IPCAMERA 360 1HD	1.0.4.38	GXV3601HD-Lef	10.0.0.173	8073	10073	00:0B:82:1F:CA:79
	16:53:21		29	IPCAMERA 360 1HD	1.0.4.38	GXV3601HD-Lef	10.0.0.174	8074	10074	00:0B:82:1F:CA:8B
2013-01-15	16:53:21	admin								
2013-01-15	16:53:21	admin						Search	Add	Cancel

Figure 31: Add Devices to Transfer List

6. Those devices will then be displayed in the transfer list.

The main display window will show the traffic status when the traffic starts.





Client Side

The client side is the GSurf_Pro RTSP server.

- 1. In the **Device browser**, right click on **RTSP server**.
- 2. Click Server Config to add devices to the local list.

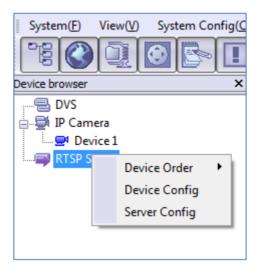


Figure 32: RTSP Server





GSURF_PRO FILE SERVER

Server Side

The file server can provide the record files in local disk to other hosts within the network for search, download and replay. To configure the GSurf_Pro as the file server, go to **Manage Tool->File Server**. Click on the **Configuration** button to set up listening IP and port. Then start the server.

	or it is	0 1 1	1.6	
ate	Client info	Operation type	Info	Start server
				Stop server
	Configu	uration	x	Configuration
	Lis		0.244 V	Put to top

Figure 33: GSurf_Pro File Server





Client Side

The client side is the replay tool in the GSurf_Pro. Go to **Manage Tool**->**Replay Tool** to open the Replayer. When option **Remote Search** is selected, users would need fill in Recorder address and Recorder port of the server side. Once searching is done, the record files can be downloaded and played locally.

Replayer			_	
System(<u>S</u>) V	′iew(<u>V</u>)	Help(<u>H</u>))	
Quest				
Start time	1/15/2013	3 🔻	12:00:00 AM 💌	
End time	1/15/2013	•	11:59:59 PM 🚔	
Search type	Device nan	ne	•	
Device name	All		•	
Chanel ID	All		•	
File type	All		•	E
	📝 Remote :	search		
Recorder address				
Recorder port				
	Search			
	Open			
🔎 Quest 🚺	Time section			

Figure 34: Replayer Remote Search





FREQUENTLY ASKED QUESTIONS

Q: How many cameras does GSurf_Pro support?

A: The GSurf_Pro can support up to 10 groups or 36 channels cameras at the same time. However, when using HD camera (720P and up), the maximum number might be limited by the PC processor. When displaying multiple videos, the GSurf_Pro will adjust the display to secondary stream to increase system resource efficiency. If users click on one of the video, the display will be automatically converted to primary stream for better quality.

Q: Does GSurf_Pro have any requirement on the PC where it's installed?

A: Yes. Please refer to section [Minimum Computer System Requirement] for details. Before installing GSurf_Pro, it is recommended to evaluate the system requirement (network traffic, disk space, file directory and etc.).

Q: Is there any requirement on the transfer server?

A: In most of the cases, the transfer server will have large amount of network flow going through. Therefore, it is recommended to use the machine with Gigabyte network interface card.

Q: What are the factors that might affect the disk space?

A: The disk space is mainly affected by the primary stream bit rate. Normally HD video will take more space than standard definition video.

Q: I have configured the alarm action on GSurf_Pro already but I still didn't get alarm. Why?

A: Besides configuring alarm action on GSurf_Pro side, the alarm has to be activated on the camera side and configured to report to the alarm center. Users could configure this by directly accessing camera's web GUI or via GSurf_Pro's remote configure interface.





EXPERIENCING THE GRANDSTREAM GSURF_PRO

Please visit our website: <u>http://www.grandstream.com</u> to receive the most up- to-date updates on firmware releases, additional features, FAQs, documentation and news on new products.

We encourage you to browse our <u>product related documentation</u>, <u>FAQs</u> and <u>User and Developer Forum</u> for answers to your general questions. If you have purchased our products through a Grandstream Certified Partner or Reseller, please contact them directly for immediate support.

Our technical support staff is trained and ready to answer all of your questions. Contact a technical support member or <u>submit a trouble ticket online</u> to receive in-depth support.

Thank you again for using Grandstream GSurf_Pro Network Video Surveillance System.





Table 4: Comparison	of GSurf_pro and GSurf

Feature Comparison	Gsurf	Gsurf_Pro
Real-time Play		
Real-time Recording	(primary, 2nd stream)	$\sqrt{(Primary Only)}$
Backend Recording		\checkmark
Primary/2nd stream switchable based on arrangement of display windows.		\checkmark
Electronic Map	\checkmark	\checkmark
Operation and Alarm Log	\checkmark	\checkmark
Control Console	\checkmark	\checkmark
Group Patrol Viewing	\checkmark	\checkmark
Sorting Display Window Order when in Group Patrol Mode		\checkmark
1,4,6,8,9,16,20,25,36 Display Window	\checkmark	\checkmark
Time Table Configuration in Automatic Recording	\checkmark	
Configuration of Alarm DO/DI	\checkmark	\checkmark
Local Configuration	\checkmark	\checkmark
Local Configuration - Smart Deletion		
Local Configuration – WatchDog Switch ON/OFF		
Local Configuration - Autorun as service when power on	\checkmark	\checkmark
Local Configuration - Display window arrangement of primary stream		\checkmark
Device Configuration	\checkmark	\checkmark
Device Configuration - Batch configuration of automatic scheduled (time) recording		\checkmark
Server Configuration		\checkmark





Import, Export Configuration	\checkmark	\checkmark
Play Mode (Manual, Patrol)	\checkmark	\checkmark
Multi-Language Switch		\checkmark
Management Tool - User management, Log management	\checkmark	\checkmark
Management Tool - Replay Tool	(Single Window Replay)	(up to 4 Window Replay, Remote download Replay)
Management Tool - Search Tool	\checkmark	\checkmark
Management Tool – Search Tool with Wi-Fi Configuration		\checkmark
Transaction Server		
File Server		$\sqrt{(\text{Combined with Replay Tool})}$
Multi-Screen Display		\checkmark
H264 - AVI Convert Tool		\checkmark
Synchronization tool for device time		\checkmark
Broadcasting Tool	\checkmark	\checkmark
Smart Delete Module	(Only delete based on files with earliest date, not accurate)	 √ (Delete based on Date, delete based on earliest file, more accurate)

