

All-In-One IP Video Management Software APV7000-Pro

User's Guide

Date: 8/20/2012 Software Version: V736



Content

Content1
1. Preface
2. System Requirements
3. Software Installation5
3.1. Activate the License 10
3.2. Manage the License 12
4. Configure Storage and Add Camera15
4.1. Configure Recording Storage 15
4.2. Add and Configure Camera 17
4.2.1. Find and Add Camera 17
4.2.2. Adjust Video, Audio and Other Functions of Camera
5. Live View
5.1. The Live View Screen
6. Configure Recording Function
6.1. Fulltime Recording 31
6.2. Scheduled Recording 32
6.3. Event Recording 33
7. Configure Motion Detection
8. Configure Panorama Camera
9. Playback
9.1. Playback the Concurrent Channel 40
9.2. Select and Playback from Recorded Database 41
9.3. Export the Recorded Data 44



1. Preface

APV7000 series is an all-in-one IP video management software, user can use single software and related license code to do the following functions:

- NVR Server: Connect and record the video/audio of IP Cameras and IP Video Servers. The NVR server is working under background after Windows is startup.
- **NVR Client:** The console for access and control the local or remote NVR server, provides live-view, playback, event notification and configuration.
- CMS Server: If a NVR server (the primary NVR server) connects to multiple NVR servers simultaneously, it is called CMS (Central Management System) architecture. This primary NVR server is sometimes referred to as the "CMS server". The CMS server is allowed to perform live-view, playback, event notification and configuration across multiple NVR servers at the same time. The CMS server is working under background after Windows is startup.
- CMS Client: The console for access and control the local or remote CMS server, provides live-view, playback, event notify and configuration.
- **Panorama Function:** Beside the normal camera, this software also supports panorama (fisheye) camera, provides multiple panorama view modes in live and playback video.

APV7000 series supports vary ways to record the video, including normal recording, schedule recording, motion-triggered recording, alarm-triggered recording and manual recording. In addition, E-Map and Multi-Monitor are the built-in functions to make this recording software handy.

Through activating the remote access function, this software provides fully remote accessed and controlled by CMS, NVR Client program and IE web browser; also provides live-view video for iPhone and other 3G mobile phone.

Note:

To keep using this software without charge, the PC must connect to Internet always, once our license-server can't detect your PC through Internet, the software will not work until the PC connects to Internet again.



2. System Requirements

The following lists the recommended PC specification.

Note:

The PC performance, brand of camera, camera's resolution and FPS, will affect the maximum simultaneous live-view channels.

Connecting Cameras	1~9 channels o	f IP Cameras/V	ideo servers			
	CPU: Intel I3-2100 3.1GHz					
	RAM: 4GB					
	Display Card: Independent display card with 1GB RAM on board, ATI or					
	nVidia chipset is recommended, such as ATI-5450 or above					
	Recording Hard Disk Drive					
	• Internal: SA	TA 11/111 7200rpm	n, File System: NTFS			
PC Specification	• External: DA	S (Direct Attache	ed Storage) connected	d via eSATA or		
	USB2.0/3.0 i	interface				
	Network: NA	S (Network Attac	ched Storage) connec	ted via iSCSI		
	interface					
	Operating Syste	em: Windows 7 P	rofessional or above			
	Codec: Must inst	all "Intel Media S	DK" into Windows			
Resolution	CIF (320x240)	D1 (720x480)	1.3M (1280x1024)	2M (1600x1200)		
Ditroto	H.264	H.264	H.264 H.264			
Bitrate	512Kbps (CBR)	1Mbps (CBR)	1.5Mbps (CBR)	2Mbps (CBR)		
Frame Rate	30 FPS	30 FPS	10 FPS	15 FPS		
Simultaneous Recording	Up to 9 CH	Up to 9 CH	Up to 9 CH	Up to 9 CH		
Channels	ор то 9 сн	0p t0 9 CH	0p t0 9 CH	0p t0 9 CH		
Simultaneous Live-View						
Channels (with Asoni	Up to 9 CH	Up to 9 CH	Up to 9 CH	Up to 9 CH		
H.264 Camera)						
Simultaneous Live-View						
Channels (with other	Up to 9 CH	Up to 9 CH	Up to 9 CH	Up to 6 CH		
brand H.264 Camera)						



Connecting Cameras	10~64 channel	s of IP Cameras	s/Video servers			
	CPU: Intel I5-3550 (Ivy Bridge) 3.3GHz					
	RAM: 4GB					
	Display Card: Independent display card with 2GB RAM on board, ATI or					
	nVidia chipset is recommended, such as ATI-5450 or above					
	Recording Hard Disk Drive					
PC Specification	• Internal: SA	TA II/III 7200rpn	n, File System: NTFS			
r e specification	• External: DA	S (Direct Attache	ed Storage) connecte	d via eSATA or		
	USB3.0 inter	face				
	• Network: NA	S (Network Attac	ched Storage) connec	ted via iSCSI		
	interface					
	Operating Syste	e m: Windows 7 F	Professional or above			
	Codec: Must inst	all "Intel Media S	DK" into Windows			
Resolution	CIF (320x240)	D1 (720x480)	1.3M (1280x1024)	2M (1600x1200)		
Bitrate	H.264	H.264 H.264		H.264		
	512Kbps (CBR)	1Mbps (CBR)	1.5Mbps (CBR)	2Mbps (CBR)		
Frame Rate	30 FPS	30 FPS	10 FPS	15 FPS		
Simultaneous Recording	Up to 64 CH	Up to 64 CH	Up to 64 CH	Up to 64 CH		
Channels	00 10 04 011	00 10 04 011	00 10 04 011	001004011		
Simultaneous Live-View						
Channels (with Asoni	Up to 64 CH	Up to 64 CH	Up to 64 CH	Up to 64 CH		
H.264 Camera)						
Simultaneous Live-View						
Channels (with other	Up to 36 CH	Up to 25 CH	Up to 20 CH	Up to 14 CH		
brand H.264 Camera)						



×

•

Cancel

3. Software Installation

- After receive the software package, unzip it and then double-click on [APV7000-Pro_Vxxx.exe] to start the installation.
- 2. Select the language you would like to use.

3. Click **[Next]** button for the next step.



Select Setup Language

installation:

English

Select the language to use during the

OK

 Click and select [I accept the agreement] option under the License Agreement, and then click [Next] button for the next step.

icense Agreement	
Please read the following important inf	ormation before continuing.
Please read the following License Agre agreement before continuing with the	ement. You must accept the terms of this installation.
LICENSE AGREEMENT	*
"Software" refer to software prov	ducts made by Genius Vision Inc. By
installing the software, you agree	
Intellectual Properties	
	naterials are proprietary properties of
	on of international copyright law to n, reverse-engineer the software,
I accept the agreement	



 Select the location to install the software. The default folder is "C: \Program Files\AplusView".
 Click [Next] for the next step.



- Select the component you want to install, and then click [Next] for the next step.
 - Full installation (NVR/CMS Server and Client): Select this component to build a NVR Server for connecting and recording the cameras.
 - NVR/CMS Remote Client only: Select and install this component if this PC is only for access and control other NVR Server(s).
- Change the name of the program folder in Start Menu if necessary. Click [Next] for the next step.







Check the settings and then click
 [Install] to start copy the necessary files into PC.

Ready to Install Setup is now ready to begin installing AplusView Professional IP Video	1
Surveillance Software (NVR/CMS) on your computer.	C
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: C:\Program Files\AplusView	*
Setup type: Full installation (NVR/CMS Server and Client)	
Selected components: NVR/CMS Server NVR/CMS Client	
Start Menu folder: AplusView	_
٠	
< Back Install C	ancel

9. After the copy process, the software will automatically request the "Demo" license through Internet, click **[Next]** for the next step.



10. Click **[Finish]** to complete the installation.





11. The "Local Console" interface will be started automatically. In the login window, the default login user name is "admin" and password is "1234". If enable the checkbox of [Save login information] and [Auto login], the console will be opened automatically next time.

Enter	user information to login
User na	ame admin
Passw	vord ••••
	Save login information.
	📝 Auto login.

12. The "Local Console" interface will be displayed as below:

> *** EVALUATION VERSION ***NVR - 127.0.0.1				
		III III III III I	► X Simple toolbar ▼ Sim	nple OSD 🔻
Live Playback	IVE	► +> ■	- C E E	⊒ Q
Config System Config Console	lo Channel Attached	় • (১	lo Channel Attached	ů اللہ
Config Storage Find Cameras New Channel New Objects	NO CHANNEL (P1.1)		NO CHANNEL (P1.2)	
Tree View Image: Image and the second seco	Stopped		Stopped	
	Io Channel Attached	џ • <mark>(</mark> ъ	Io Channel Attached	iļ 1 <mark>6</mark>
System Briefcase Viewer LOG MAP SYS ALL Description Time	NO CHANNEL (P1.3)		NO CHANNEL (P1.4)	
Storage is offline 12/01/02	Stopped		Stopped	
Storage is busy 12/01/02 System was initiated. 12/01/02				
۲ (III) 1 (I				
DEMO ServerTime: 12/01/02 14: 10:25 CPU:0%	Memory(engine/free):36.2MB/2.0GB	FPS(record/total):0/0	bitrate:0/0 Recorded:??~??	FreeHDD:



13. There is an icon called *"NVR Organizer"* on the task tray on the bottom-right of desktop, you can right-click on the icon to list the options, and enable/disable the NVR server and console.



14. This software is now running under evaluation version, you can manage up to 8 IP cameras or NVR servers. If the PC always connects to Internet, you can use this software without charge forever.



3.1. Activate the License

In the APV7000 system, there are two types of license:

- Online license: This type of license requires periodic Internet check of license validity. It allows users to transfer license from one computer to another, as long as the maximum concurrent license does not exceed the purchased ones. In most scenarios, this offers greatest flexibility, highest cost efficiency, and minimum risk. To use the online license, the NVR server will need unrestricted access to the Internet to use this license. Please note however, using this license means you will need Internet even in normal operation, as License Manager will check in the background periodically for license validation.
- Offline license: This type of license does not require Internet when normal operation. However it needs to be "Bound" to a specific computer. The operation to bind a license to a computer is called "Commit". If you committed a license to a computer, it became fused to that specific computer state (including its system and the underlying hardware). If you change the underlying system or hardware, you risk losing the license.

It is generally recommended unless situation is required, user should avoid using offline license and choose the online one. Even if offline scenario is required, user should start from using online license. After a period of stable running, user can always convert online license directly to offline license through the process of committing.

- 1. If you have purchased a license code, click **[X]** button on the upper-right corner to close the *"Local Console"*, and then follow the next steps to active the license.
- 2. Right-click on "NVR Organizer" icon, click [Deactivate] to stop the NVR server.
- 3. Click [License manager] option to open the License Manager.







4. Click and select [Install package online. The computer must have access to internet]. Click [Next].

License Manager	×
Choose an action	
 Install package online. The computer must have access to internet. Generate request file for license. (offline install only) Install package offline. (offline install only, license file required) Manage installed packages. 	
Advanced Options Previous Next	

- 5. Input the license code (Purchase code) and the type of package, and then input the quantity of cameras will be access by this computer, and then click **[Next]**. There are 3 types of packages:
 - "pro": This means the Professional edition.
 - "pano": This means the Panorama edition.
 - "ipr": This means the Intelligent edition.



- The desired quantity must not exceed the remaining purchased quantity.
- Do Not check the "Commit to current computer" box, keep this license as an Online license. After ensure the NVR system works properly, you can always convert an Online license to an Offline one later.



6. The PC will now link to our license-server to activate the license. After activate successfully, the demo license will be suspend automatically.

	Installation Records			
Auth. Code	Pack	Qty	Status	
r1,pano,16,0,0, r1,ipr,8,0,0,	pano ipr	16 8	NEW OK	
Package installed su	ccessfully. e installed commercial license	and no	onger need dem	
	Suspend demo licenses now?		-	202
<	suspend demo ncenses now:			
		OK	Car	icel
<	Licensed Packages	OK	Car	icel
Remove		OK	Car	icel
Remove		OK	Car	icel

3.2. Manage the License

In the License Manager, you can check the status of installed licenses, suspend the license, or convert the online license to offline license.

- 1. If you are in "Local Console", click **[X]** button on the upper-right corner to close it.
- 2. Right-click on the *"NVR Organizer"* icon on task tray, click **[Deactivate]** option to stop the NVR server.
- 3. Click [License manager] option to open the License Manager.

Local console Auto-start console	↓ Local console ↓ Auto-start console
Activate	Activate Deactivate
Restart AutoStart	Restart AutoStart
License manager	License manager
Exit	Exit

4. Click and select [Manage install packages], and then click [Next].



e Manager 📃
Choose an action
Install package online. The computer must have access to internet.
Generate request file for license. (offline install only)
Install package offline. (offline install only, license file required)
Manage installed packages.
Contrage installed packages.

5. The following screen will appear and list the installed license packages.

License Manager					l	×	
	Installat	ion Records	-				
Auth. Code		Pack	Qty	Status			
r1,ipr,8,0,0,		ipr	8	SUSPEND .		License	status
r1,pano,16,0,0,		pano	16	OK			
•							
Remove Unused							
	License	d Packages					
Pack Qty							
pano 16	Auth	norized	nac	kades			
			000				
	L						
		Advanced Op	tions	Previou	s Next		
		Havanced Op			NEAL	i	

Below explains license status:

- "OK ": This online license works correctly.
- "NEW": This is a newly installed license.
- "BOUND": This is an offline (committed) license which works correctly.
- "UNKNOWN": This license is currently working (and is previously known working). But due to some factors (such as lacking Internet connection or exceeding maximum concurrent license), it might soon be invalidated.
- "FAIL": This license is invalidated, mostly likely due to license check failure, or license revoked at License-server side.
- "INVALID": This license is invalidated, mostly likely due to computer system has been changed.



 If you want to convert an online license to offline license, right-click on that license and select [Commit to current computer] to perform the commit operation. You'll need Internet connection to perform this operation.

	Installation	Records			
Auth. Code		Pack	Qty	Status	
r1,ipr,8,0,0,		ipr	8	SUSPEND	
r1,pano,16,0,0,	Suspend		16	OK	
	Commit to current computer	1			
	Remove entry	•			
Remove Unu	sed			•	
	Licensed Pa	ackages			
Pack Qty					

7. After commit, the status of the license will be displayed as "BOUND". Click **[X]** on upper-right to close the License Manager.



4. Configure Storage and Add Camera

Note:

There are many functions can be configured, you may click the checkbox to enable or disable the function:

- Checkbox="☑": Enable this function, NVR will transfer this setting to camera and configure the camera.
- Checkbox="□": Disable this function, NVR will not configure the camera. NVR will connect this camera with camera's concurrent settings.

4.1. Configure Recording Storage

To start using the NVR system, please click **[Config Storage]** button to add and configure the recording storage first.

Standard (Pattern Se	ts) 🔻 LIVE	4 I A) II 👂 🔍 🛈 II 📼	C)
Live Playback		Ē			
Live Mode Config System Cor	No Channel A	ttached	ي بال	No Channel Attached	
Config Storage Fin	nd Cameras				
New Channel Ne	ew Objects NO CH4	ANNEL (P1.1)		NO CHANNEL (P1.2)	
Tree View All channels	Stoppe	ed		Stopped	
System Configuration					×
Local Console Configurati USystem Configuration Recording Storage Se USE External PTZ module USystem Info. Hotkey List	Directories Add Delete	(Default) C-\gyrec			
Calculator	Storage Advanced	ory D:\gvre	c\	Based On Default	
All Channels	Enabled	V yes	yes	 Enables recording and playba 	ck on this directory
Find Cameras	MaxSize_GB	600	600	Defines maximum used size in	GB
Trigger Policy 🛞 Maps	SafeFreeSize_GB	5	5	Defines minimum safe free sp	ace in GB.
Users 🛃 User Groups	FileSize_MB	1000	1000	Defines the size of a single fil	e in MB.
Export/Import					
				Apply OK	Cancel

Click on the directory, and then enable the following fields and select the options:



- **"Enable" field:** Select "Yes". It means this directory (folder) will be used for store the recorded data.
- **"MaxSize_GB" field:** Type in the maximum used storage size. The unit is GB (Giga byte).

Configure the other directory if you want to use multiple storages. And then click **[OK]** to apply the settings.

Note:

When a directory is full, NVR will record into the next directory. When all directories are full, NVR will overwrite the directories automatically.



4.2. Add and Configure Camera

4.2.1. Find and Add Camera

To add IP cameras and video servers, first, please follow the user's manual of IP camera to assign the IP address of each camera.

1. After assign the IP address of all cameras, click **[Find Cameras]** button to add the cameras into the NVR server.

Standard • (Pa	attern Sets) 🔻	LIVE 4 1 IÞ 4 4	< > >	II 🧧 🔍 🖸 III	Ø 📰
Live	Playback	Page1			
Live	Mode	No Channel Attached	U 16	No Channel Attached	J 16
Config System	Config Console				
Config Storage	Find Cameras				
New Channel	New Objects	NO CHANNEL (P1.1)		NO CHANNEL (P1.2)	
Tree All channels	View	Stopped		Stopped	

Click on the name to select camera. If you want to change the name, just click
[Rename] button and type the new name.

Local Console Configurati			F	lename Add S	Selected Add All Sca	in
- System Configuration	8		Fou	nd Devices		
External PTZ module	Channel Name	Added	IP	Driver	Description	MAC
Aux Module	CH_001		192.168.11.110	AsoniCamera	CAM619MV	00:0
System Info.	CH_002		192.168.11.224	AsoniAMCam	CAM728M-PoE - 00:0e:c9:03:	00:0
A Hotkey List	CH_003		192.168.11.72	AsoniCamera	CAM619M-IR	00:0
Calculator	CH_004		192.168.11.73	AsoniCamera	CAM613M	00:0
NVR Connections	CH_005		192.168.11.77	AsoniCamera	SVR610	00:0
All Channels						
Find Cameras						
Trigger Policy						
Maps						
🗟 Users 🚓 User Groups						
Export/Import						
	•					
III ►	×		-111			

Note:

• The *"Channel Name"* is the unique name in NVR system for identifying the camera, it must be different between all cameras, and it cannot be modified after the camera has been added.



- The "Description" can be modified in "Camera Setup" page later. You can modify the content in "Description" to a name of place such as office, warehouse or street, and it will be displayed behind the "Channel Name" on the top of player.
- 3. To add the camera, click **[Add Selected]** button. After add all cameras, click **[OK]** button. The added cameras will be listed in *"Tree View"* area, the video will be displayed in each player. The NVR connect the camera with default username and password, if you have already changed the username and password of camera, NVR will not connect to the camera and the video will be warned "Video Loss". In this situation, you should modify the configuration. To do this, right-click on the camera in *"Tree View"* area and click **[Camera Setup]** option.



4. In this page, you can change the login username and password, also modify the content in *"Description"*. Click **[OK]** button to apply the setting.

Camera Setup	Camera Setup Clone Setting	1			×
Camera Setup	Camera Setup Clone Settings	81			
🖃 📲 Video Setup		Camera Drive	er Informatio	n	
Scheduled Recording	Channel name	CH_001			
PTZ Setup		Plea	ase input a name	that is unique th	oughout the domain.
External PTZ moc	Driver	Asoni	 Series 		•
🦾 🕸 Video Analytics Setup	Description	SVR610			
	Domain name				
	Enter camera IP address	192.168.11.7	7 Port 80	Channel 1	
	Enter login information	admin	Password •••	••	
		Unconditional recor	ding		
< ►					
			Apply	ОК	Cancel



4.2.2. Adjust Video, Audio and Other Functions of Camera

After add the camera, you can adjust camera's video, audio and enable the other functions.

Right-click on the camera in *"Tree View"* area and click **[Video Setup]** option. This page provides the detailed configuration for camera.

Live	Playback	Page1			
Live Config System	Mode Config Console	No Channel Attached	ų • <mark>6</mark>	No Channel Attached	ų • <mark>6</mark>
Config Storage New Channel Tree	Find Cameras	NO CHANNEL (P1.1)		NO CHANNEL (P1.2) Stopped	
	Video Setup Camera Setup				
- CH_00- - CH_00: - All connecti	Scheduled Recording Reset Channel PTZ Setup Duplicate Delete CH	g Setup			
	Add a new channel				

Enable Motion Detection and Digital I/O Function

Click **[Video]** tab, and then enable the following fields and select the options. These settings will make NVR supports the motion detection and digital I/O of this camera.

- "MotionDetection" field: Select "Config+Capture".
- "DIOProfile" field: Select "Auto".

Camera Setup	Ch	annel	CH_001		Driver
 Video Setup Preview Scheduled Recording 	Configuration Add Delet	_	Default		
PTZ Setup External PTZ moc	Descri	ption	Default		Based On 💌
Video Analytics Setur	Record Video Audio	RT	SP RTSP Ad	vanced	
	UsePTZ			no	 Select PTZ controlling mode
	Workaround			no	 Select workaround strategy for specific device
	PTZTimeout]	1000	 Select PTZ control timeout, in milisecond.
	PresetNumber			32	 Number of PTZ presets.
	MotionDetection	V	config+captu	config+capture	 Select motion detection mode
	DIOProfile		auto	auto	 Select digital input/output profile
	DIOPollingInterval]	1	 Select DIO polling interval, in second.
4 III	OriginalVideo			[If the model is 2 Mega-Pixel CMOS camera, must select the input source first. The value of 'Resolution' and 'Fps' parameters can't exceed the input source.



Enable PTZ Function

If the camera supports PTZ function, click **[Video]** tab, and then enable the following fields and select the options. These settings will make NVR supports the PTZ functions of this camera.

- "UsePTZ" field: Select "4way".
- "PresetNumber" field: Select "Auto".

amera Setup	Cha	annel	CH_001		Driver
Video Setup Preview Scheduled Recording	Configuration Add Delete	_	Default		
PTZ Setup External PTZ moc	Descri	ption	Default		Based On 👻
Video Analytics Setur	Record Video Audio	RT	SP RTSP Ad	vanced	
	UsePTZ	7	4way	4way	 Select PTZ controlling mode
	Workaround			no	 Select workaround strategy for specific device
	PTZTimeout			1000	 Select PTZ control timeout, in milisecond.
	PresetNumber		auto	auto	 Number of PTZ presets.
	MotionDetection	V	config+captu	config+capture	 Select motion detection mode
	DIOProfile		auto	auto	 Select digital input/output profile
	DIOPollingInterval			1	 Select DIO polling interval, in secon
III b	OriginalVideo				If the model is 2 Mega-Pixel CMOS camera, must select the input source "first. The value of 'Resolution' and 'Fps' parameters can't exceed the input source.

Configure Video Format, Resolution, FPS

- In NVR system, the "Video display" consumes many resource of PC. Higher resolution and frame rate consumes more resource. Our NVR uses "Dual Stream" technique to enhance the display performance in "Live View". If the camera supports dual stream, you should enable both video stream. NVR will display the first stream (the higher resolution video) when on 1 or 4 split layout, and display the second stream (the lower resolution video) when on 9 or more split layout.
- NVR always record the video of first stream, the parameters of first stream will also affect the recorded data.
- Since NVR only records the first stream, it always (and only) play back the first stream (the higher resolution video) in "Playback" mode, more channels will consume more PC resource. Thus, you should not play back too many channels simultaneously.
- If the second stream is disabled, NVR will always display the first stream.



The video parameters of various camera series are different, to reach the best live-view performance, please follow the below picture to configure the settings.

MotionDetection	-	config+captu	config+capture	•	Select motion detection mode	
DIOProfile	1	auto	auto	•	Select digital input/output profile	
DIOPollingInterval			1	•	Select DIO polling interval, in second.	
OriginalVideo				•	If the model is 2 Mega-Pixel CMOS camera, must select the input source first. The value of 'Resolution' and 'Fps' parameters can't exceed the input source.	
			Stream 1			
StreamingMode	V	http	http	•	Select streaming mode	
Resolution	V	1920x1080	1920×1080	•	Video resolution	
CodecType	V	h264	h264	•	Codec type	
JpegQuality				•	Video quality	
FrameRate	V	15	15	•	Video frames per second.	
CompressionType	V	0:CBR	0:CBR	•	Video compression type. 0: CBR 1: VBR	
Bitrate	V	3000	3000	•	Video data rate. Usually only valid for CBR(constant bitrate) mode. Higher value produces better image quality but larger filesizes.	
			Stream 2			
StreamingMode	V	http	http	•	Enable second stream. Extra config may be required in video server.	
Resolution	V	640x480	640x480	•	Video resolution	
CodecType	V	h264	h264	•	Codec type	
JpegQuality				•	Video quality	
FrameRate	V	15	15	•	Video frames per second.	
CompressionType	V	0:CBR	0:CBR	•	Video compression type. 0: CBR 1: VBR	
Bitrate	V	512	512	•	Video data rate. Usually only valid for CBR(constant bitrate) mode. Higher value produces better image quality but larger filesizes.	

<u>CAM6xx Full-HD Camera Series (Highest resolution = 1920x1080)</u>

- The Stream 1 will be recorded, and displayed when on 1 or 4 split layout. If you want to reduce the size of recorded data, just decrease the "Bitrate" value. If lower bitrate causes lower video quality, you can also decrease the "FrameRate" value.
- The Stream 2 will be displayed when on 9 or more split layout, this will make the live-view video smoothly.



Record Video Audio	R	TSP RTSP Ad	lvanced			
MotionDetection	V	config+captu	config+capture	Ŧ	Select motion detection mode	
DIOProfile	V	auto	auto	•	Select digital input/output profile	
DIOPollingInterval			1	•	Select DIO polling interval, in second.	
OriginalVideo				•	If the model is 2 Mega-Pixel CMOS camera, must select the input source first. The value of 'Resolution' and 'Fps' parameters can't exceed the input source.	
	-		Stream 1			
StreamingMode	V	http	http	•	Select streaming mode	
Resolution	V	1280x720	1280x720	•	Video resolution	
CodecType	V	h264	h264	Ŧ	Codec type	
JpegQuality				•	Video quality	
FrameRate	V	30	30	•	Video frames per second.	
CompressionType	V	0:CBR	0:CBR	•	Video compression type. 0: CBR 1: VBR	
Bitrate	V	1500	1500	•	Video data rate. Usually only valid for CBR(constant bitrate) mode. Higher value produces better image quality but larger filesizes.	
			Stream 2			
StreamingMode	V	http	http	•	Enable second stream. Extra config may be required in video server.	
Resolution	V	640x480	640x480	•	Video resolution	
CodecType	V	h264	h264	•	Codec type	
JpegQuality				•	Video quality	
FrameRate	V	30	30	•	Video frames per second.	
CompressionType	V	0:CBR	0:CBR	•	Video compression type. 0: CBR 1: VBR	
Bitrate	V	512	512	•	Video data rate. Usually only valid for CBR(constant bitrate) mode. Higher value produces better image quality but larger filesizes.	

CAM6xx 2 HD-720P Camera Series (Highest resolution = 1280x800)

- The Stream 1 will be recorded, and displayed when on 1 or 4 split layout. If you want to reduce the size of recorded data, just decrease the "Bitrate" value. If lower bitrate causes lower video quality, you can also decrease the "FrameRate" value.
- The Stream 2 will be displayed when on 9 or more split layout, this will make the live-view video smoothly.



CAM6xx 2 Mega-pixel C	amera Series (Highest	resolution $= 160$)0x1200)

Record Video Audio	R	TSP RTSP Ad	lvanced	_		_
MotionDetection	V	config+captu	config+capture	•	Select motion detection mode	1
DIOProfile	1	auto	auto	•	Select digital input/output profile	
DIOPollingInterval			1	•	Select DIO polling interval, in second.	
OriginalVideo		1600x1200@	1600x1200@15	•	If the model is 2 Mega-Pixel CMOS camera, must select the input source first. The value of 'Resolution' and 'Fps' parameters can't exceed the input source.	[
			Stream 1			
StreamingMode	V	http	http	•	Select streaming mode	
Resolution	V	1600x1200	1600x1200	•	Video resolution	
CodecType	V	h264	h264	¥	Codec type	
JpegQuality				•	Video quality	
FrameRate	V	15	15	Ŧ	Video frames per second.	
CompressionType	V	0:CBR	0:CBR	•	Video compression type. 0: CBR 1: VBR	
Bitrate	V	2000	2000	•	Video data rate. Usually only valid for CBR(constant bitrate) mode. Higher value produces better image quality but larger filesizes.	ш
			Stream 2			
StreamingMode	V	http	http	¥	Enable second stream. Extra config may be required in video server.	
Resolution	V	640x480	640x480	•	Video resolution	
CodecType	V	h264	h264	•	Codec type	
JpegQuality				•	Video quality	
FrameRate	V	15	15	•	Video frames per second.	
CompressionType	V	0:CBR	0:CBR	•	Video compression type. 0: CBR 1: VBR	
Bitrate	V	512	512	•	Video data rate. Usually only valid for CBR (constant bitrate) mode. Higher value produces better image quality but larger filesizes.	

- The Stream 1 will be recorded, and displayed when on 1 or 4 split layout. If you want to reduce the size of recorded data, just decrease the "Bitrate" value. If lower bitrate causes lower video quality, you can also decrease the "FrameRate" value.
- The Stream 2 will be displayed when on 9 or more split layout, this will make the live-view video smoothly.



CAM6xx D1-Resolution	Camera Series	(Highest resolution =	720x480)
OTHIOXA DI RESOLUTION			120/400/

Record Video Audio	R	TSP RTSP A	dvanced			_
MotionDetection	V	config+capt	config+captur	e 🔻	Select motion detection mode	
DIOProfile	V	auto	auto	•	Select digital input/output profile	
DIOPollingInterval			1	•	Select DIO polling interval, in second.	
OriginalVideo				•	If the model is 2 Mega-Pixel CMOS camera, must select the input source first. The value of 'Resolution' and 'Fps' parameters can't exceed the input source.	-
			Stream 1			
StreamingMode	V	http	http	•	Select streaming mode	
Resolution		720x480	720x480	•	Video resolution	
CodecType		h264	h264	•	Codec type	
JpegQuality				•	Video quality	
FrameRate		30	30	•	Video frames per second.	
CompressionType	V	0:CBR	0:CBR	•	Video compression type. 0: CBR 1: VBR	
Bitrate	V	1000	1000	•	Video data rate. Usually only valid for CBR (constant bitrate) mode. Higher value produces better image quality but larger filesizes.	:
			Stream 2			
StreamingMode	V	http	http	•	Enable second stream. Extra config may be required in video server.	
Resolution		352x240	352x240	•	Video resolution	
CodecType	V	h264	h264	•	Codec type	
JpegQuality				•	Video quality	
FrameRate	V	30	30	•	Video frames per second.	
CompressionType	V	0:CBR	0:CBR	•	Video compression type. 0: CBR 1: VBR	
Bitrate		512	512	•	Video data rate. Usually only valid for CBR(constant bitrate) mode. Higher value produces better image quality but larger filesizes.	

- The Stream 1 will be recorded, and displayed when on 1 or 4 split layout. If you want to reduce the size of recorded data, just decrease the "Bitrate" value. If lower bitrate causes lower video quality, you can also decrease the "FrameRate" value.
- The Stream 2 will be displayed when on 9 or more split layout, this will make the live-view video smoothly.
- If you think the video quality of Stream 2 is not good, you can disable Stream 2 (uncheck "StreamingMode"), NVR will always display Stream 1.



	CAM6xx VGA-Resolution Camera Series	(Highest resolution $= 640x480$)
--	-------------------------------------	-----------------------------------

Record Video Audio	R	TSP RTSP Ad	lvanced	_		_
MotionDetection	V	config+captu	config+capture	•	Select motion detection mode	
DIOProfile	V	auto	auto	•	Select digital input/output profile	
DIOPollingInterval			1	•	Select DIO polling interval, in second.	
OriginalVideo				•	If the model is 2 Mega-Pixel CMOS camera, must select the input source first. The value of 'Resolution' and 'Fps' parameters can't exceed the input source.	
			Stream 1			
StreamingMode	V	http	http	•	Select streaming mode	
Resolution		640x480	640x480	•	Video resolution	
CodecType	V	h264	h264	•	Codec type	
JpegQuality				•	Video quality	
FrameRate	V	30	30	•	Video frames per second.	
CompressionType	V	0:CBR	0:CBR	•	Video compression type. 0: CBR 1: VBR	
Bitrate	V	1000	1000	•	Video data rate. Usually only valid for CBR(constant bitrate) mode. Higher value produces better image quality but larger filesizes.	
			Stream 2			
StreamingMode	V	http	http	•	Enable second stream. Extra config may be required in video server.	
Resolution	V	320x240	320x240	•	Video resolution	
CodecType	V	h264	h264	•	Codec type	
JpegQuality				•	Video quality	
FrameRate	V	30	30	•	Video frames per second.	
CompressionType	V	0:CBR	0:CBR	•	Video compression type. 0: CBR 1: VBR	
Bitrate	V	512	512	•	Video data rate. Usually only valid for CBR(constant bitrate) mode. Higher value produces better image quality but larger filesizes.	

- The Stream 1 will be recorded, and displayed when on 1 or 4 split layout. If you want to reduce the size of recorded data, just decrease the "Bitrate" value. If lower bitrate causes lower video quality, you can also decrease the "FrameRate" value.
- The Stream 2 will be displayed when on 9 or more split layout, this will make the live-view video smoothly.
- If you think the video quality of Stream 2 is not good, you can disable (uncheck "StreamingMode") Stream 2, NVR will always display Stream 1.



|--|

SecondaryStream V MotionDetection DIOProfile V Resolution Framerate GOP RateControlMode V Profile V	1600×1200 15 0:CBR	1 • • • • • • • • • • • • • • • • • • •	Accessibility depends on de capability Select motion detection mo Select digital input/output p Video resolution Video frames per second. H.264 GOP size H.264 compression mode	evice ode	
MotionDetection DIOProfile Resolution Framerate GOP RateControlMode Bitrate Profile V	config+captu auto Stree 1600x1200 15 0:CBR	config+capture auto am 1 (H.264) HI 1600x1200 15 30	capability Select motion detection mo Select digital input/output p Video resolution Video frames per second. H.264 GOP size H.264 compression mode	ode profile	
DIOProfile Resolution Framerate GOP RateControlMode Bitrate Profile V	auto Stree 1600x1200 15 0:CBR	auto	Select digital input/output p Video resolution Video frames per second. H.264 GOP size H.264 compression mode	profile	
Resolution Framerate GOP RateControlMode Bitrate Profile V	Stre: 1600x1200 15 0:CBR	am 1 (H.264) HI 1600x1200 15 30	Video resolution Video frames per second. H.264 GOP size H.264 compression mode		
Framerate GOP RateControlMode Bitrate Profile V	1600×1200 15 0:CBR	1600×1200 ▼ 15 30	Video resolution Video frames per second. H.264 GOP size H.264 compression mode	E	
Framerate	15 0:CBR	15 30	Video frames per second. H. 264 GOP size H. 264 compression mode	E	
GOP RateControlMode Bitrate Profile	 0:CBR	30	H. 264 GOP size H. 264 compression mode	E	
RateControlMode		(H.264 compression mode	E	
Bitrate 📝 Profile 📝		0:CBR -			
Profile 💟	2000				
Profile 💟	2000		Video data rate. Usually on		
	2000	2000	CBR(constant bitrate) mod value produces better imag but larger filesizes.		
	0:Baseline	0:Baseline 🗕 🗸	H. 264 profile level	Must select	"Baseline"
	Stre	am 2 (MJPG) Hi)		
Framerate]	15	Video frames per second.		
RateControlQuality]]	1:Good 🔹	Stream quality level		
	Strea	m 3 (H.264) VG	A		
Framerate 🔽	15	15	Video frames per second.		
GOP		30	H.264 GOP size		
RateControlMode	0:CBR	0:CBR -	H.264 compression mode		
			Video data rate. Usually on		
Bitrate 🔽	512	512	CBR(constant bitrate) mod value produces better imag but larger filesizes.		
Profile 🔽		0:Baseline	H.264 profile level	Must select	"Baseline"

- The first stream is "Stream 1", the second stream is "Stream 3".
- The Stream 1 will be recorded, and displayed when on 1 or 4 split layout. If you want to reduce the size of recorded data, just decrease the "Bitrate" value. If lower bitrate causes lower video quality, you can also decrease the "FrameRate" value.
- The Stream 3 will be displayed when on 9 or more split layout, this will make the live-view video smoothly.

Configure Audio

If the camera supports 2-way audio, please follow the below picture to configure the



settings, afterward, you can chatting to the camera through PC's microphone.

Record Video Audio	RTSP	RTSP Advanced
AudioOut	V yes	yes 🔻



5. Live View



5.1. The Live View Screen

The Channel Layout (Split-window)

Click the "Layout Buttons" to change the layout (split-window).



You can use multiple pages to display the channel, and each page can use different layout.



The "Player"

There are two types of player, "Full-function Player" and "Simplified Player":

- **"Full-function Player":** This type of player allows for live-view and playback. There are channel name, description, function buttons and indicators on the top. It supports more functions in the pop-up menu when left-click on the video.
- "Simplified Player": This type of player allows for live-view only.



Select Channels for Live View

To view the video, drag the channel from *"Tree View"* area to the *"Player"*, the channel will be displayed now.

To change the location to display, use mouse to drag the video to the desired location.

To remove the channel from the player, left-click on the video for the pop-up menu, and then click **[Detach]** (with *"Full-function Player"*) or **[Stop]** (with *"Simplified Player"*).



Operate the Live View Channel



To view the video, drag the channel from *"Tree View"* area to the *"Player"*, the channel will be displayed now.

To change the location to display, use mouse to drag the video to the desired location.

To remove the channel from the player, left-click on the video and click **[Detach]** (with *"Full-function Player"* or **[Stop]** (with *"Simplified Player"* from the pop-up menu.

Double-click on the video will view the channel in 1x1 window, double-click it again will back to the split-view window.

Right-click the video to pop-up the context menu, here you can do more functions of this camera.





6. Configure Recording Function

The NVR server provides various methods to record the video/audio of cameras.

- Fulltime Recording: Always record the video/audio of camera.
- Scheduled Recording: You can schedule the period for recording or not recording the camera. Each camera has its own schedule.
- Event Recording: When there is an event (including motion detection, alarm trigger, camera disconnected and PTZ control), the recording will be executed automatically.

6.1. Fulltime Recording

1. On *"Live View"* screen, right-click on the camera in *"Tree View"* area and click **[Camera Setup]** option.



2. In this page, if you want to fulltime record this camera, click and enable **[Unconditional Recording]** function. Click **[OK]** button to apply the setting.

Camera Setup	Camera Setup Clone Settings				
📄 🖶 Video Setup		Camera Driver	Information		
Preview () Scheduled Recording	Channel name	CH_001			
PTZ Setup		Please	input a name tha	it is unique thro	oughout the domain.
External PTZ moc	Driver	Asoni 🔻	Series		-
Video Analytics Setur	Description	SVR610			
	Domain name				
	Enter camera IP address	192.168.11.77	Port 80	Channel 1	
	Enter login information	admin Pa	ssword •••••		
	Basic Recording	Unconditional recordir	ng		
	Others	Disabled			



6.2. Scheduled Recording

 Right-click the video to pop-up the context menu, and click [Scheduled Recording Setup] option.



2. Click on the cell box to enable or disable the recording, blue means record and white means not record. To enable or disable a range of period, you can drag the a blue or white cell box and pull it to the direction, this will speed up the selection.





3. Click **[OK]** button to apply the settings for this camera.

6.3. Event Recording

When there is an event (including motion detection, alarm trigger, camera disconnected and PTZ control), the recording will be executed automatically.



7. Configure Motion Detection

 Click [Control Panel] button on the top to open a panel, select "Motion" from "New Object" list, a "Motion Function Object" will be added on video.



2. Drag the end point of "Motion Function Object" to the interested location and click "Region interest" to create the area for detecting, there are 3 areas can be detected.



 The size and location of detect area can be adjusted. After create all areas, click [Save] button in panel to apply the settings.



🖪 CH_013 🛛 💽
Play Control
II 4I I> 4 >> 4 >> LIVE ■ ● @20 □□□□ I4 41D 46H 41H 410m 41m >I 1D> 6H> 1H+ 10m> 1m>
PTZ Control
▲T ▲F ▲O A+F A+I ▼W ▼N ▼C STOP

Editing Regions
Commom lay (new object
SAVE RYRT EDIT DEL
Start Smart Search

There are two types of motion detection:

- Motion: Detect motion by IP camera itself. This type will not increase the loading of NVR.
- S-Motion: Software Motion. NVR will analyze the video content and detect the motion. It will more precise, but will increase the loading of NVR. It is recommended only used with important location.



8. Configure Panorama Camera

If the camera equips a fisheye lens and wish to use the 360° panoramic image, follow the steps to enable this function.

1. On *"Live View"* screen, right-click on the camera in *"Tree View"* area and click **[Video Setup]** option.



- 2. Click **[Record]** tab, find the *"Panorama Model"* field, select one of the following options according to the camera model:
 - **Dome-1.25:** Vandal or fixed dome camera with 1.25mm fisheye lens.
 - **Dome-1.47:** Vandal or fixed dome camera with 1.47mm fisheye lens.
 - **Box-1.55:** Box camera with 1.55mm fisheye lens.
 - Box-1.47: Box camera with 1.47mm fisheye lens.

Camera Setup	Cha	nnel	CH_005			Driver
Video Setup	Configuration Add Delete	_	Default			
PTZ Setup	Descri	ption	Default		Ba	sed On 💌
Video Analytics Setup	Record Video Audio	RT	SP RTSP A	dvanced		
				Miscellaneou	S	
	StereoType			default	•	Select stereo-type of camera
	VideoDetect			dient_only	-	Video analytics mode
	3G Streaming			off	•	3G Streaming, can be viewed with a supported portable device
	JPEG Streaming			off	•	JPEG Streaming, can be viewed with most PC and portable devices
	Watermark			off	•	Watermark applied to video data, any modification to the data will be detected
	Panorama Model		Dome-1.47	Dome-1.47	•	Select panorama(fish-eye) camera model so the image can be properly remapped to rectilinear. Model name
						begins with 'F:' forces new setting to previously recorded video.
	Interlaced			auto	•	If the video is interlaced, select 'yes'.



 Back to "Live View" screen, click and select the video of camera, click [Control Panel] on the top to open a panel, select [Panorama] from "New Object" list, a "Panorama Function Object" will be added on video.



Drag the end point of *"Panorama Function Object"* to any location and click [Image Circle] to create the area for panoramic view.







5. The size and location of circle can be adjusted. After adjust the circle, click **[Save]** button in panel to apply the settings.

CH_013
Play Control
II II IF 44 IFF 4 LIVE III IIII IIIII IIIII I4 41D 46H 41H 410m 41m I1 1DF 6HF 1HF 10mF 1mF
PTZ Control
▲T ▲F ▲O A-F A-I ▼W ▼N ♥C STOP

Editing Regions
Commom lay (new object
Start Smart Search

Back to "Live View" screen, right-click on the video and select [Panorama] ->
 [Pano+Free+Surround] option, the video will be turned to panoramic view.



	The Real Real Real Real Real Real Real Rea
	LIVE 📢 I 🕨 🕨 🕨 🔳 🔍 🔍 🗐 🖩 🚍 🔇
Live Playback	Page1
Live Mode	CH_005 © 🔥 🔴 🔍
Config System Config Console	2012/01/20 (6110:03
Config Storage Find Cameras	
New Channel New Objects	CH_005
Tree View	Zoom In
🚎 🗐 All channels	Aspect Actual Size
	Panorama Pano
B № CH_007 ⊞ □ • CH_013	Show timestamp Pano + Free 1+3
All connections	Show play state Pano + Free + Surround
	Multi-Stream P+F+S(Side-mounted)
	Live video feed Free
	Manual Recording
	Reset Channel
	Viewing earliest recorded data Stop Surround x2
	Detach
• · · · · · · · · · · · · · · · · · · ·	
System Briefcase Viewer	Export Footage Render audio
LOG(1) MAP SYS ALL	Use timebar
Description Time	
CH_007 lost visual. 12/0: Channel ICU 0051 desend build 12/0:	Video Setup Camera Setup
▲ Channel 'CH_005' changed by 'ad 12/0: ▲ Channel 'CH_005' changed by 'ad 12/0:	Scheduled Recording Setup
A Channel 'CH_005' changed by 'ad 12/0:	Web Setup
A Channel 'CH 005' changed by 'ad 12/0	
Live Playback Live Mode	
(ind) buck	
Live Mode Config System Config Console	Page1
Live Mode Config System Config Console Config Storage Find Cameras	Page1
Live Mode Config System Config Storage Find Cameras New Channel New Objects	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View All channels CH_005	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View Channels Channels CH_005 CH_005	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View Cameras All channels Cameras Ch_Config Ch_Config Ch_Config Config Con	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View Channels Channels CH_005 CH_005	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View Cameras All channels Cameras Ch_Config Ch_Config Ch_Config Config Con	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View Cameras All channels Cameras Ch_Config Ch_Config Ch_Config Config Con	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View Cameras All channels Cameras Ch_Config Ch_Config Ch_Config Config Con	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View Cameras All channels Cameras Ch_Config Ch_Config Ch_Config Config Con	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View □ □ □ All channels □ □ □ CH_013 □ □ □ All connections	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View All channels P CH_007 P CH_013 CH_007 P CH_013 CH_007 P CH_013 CH_007 CH_013 CH_007 CH_013 CH_007 CH_013 CH_007 CH_013	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View All channels Ch_OO7	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View CH_OD5 CH_OD7 CH_O	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View Image: Storage Find Cameras	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View All channels We CH_007 CH_013 CH_013 CH_013 System Briefcase Viewer LOG(1) MAP SYS ALL Description Time * (CH_007 lost visual. 12/0	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View Image: Ch_007 Image: Ch_007 Image: Ch_007 Image: Ch_007 lost visual. 12/0 Image: Ch_007 lost visual. 12/0	Page1
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View All channels We CH_007 CH_013 CH_013 CH_013 System Briefcase Viewer LOG(1) MAP SYS ALL Description Time * (CH_007 lost visual. 12/0	<complex-block></complex-block>
Live Mode Config System Config Console Config Storage Find Cameras New Channel New Objects Tree View ■ All channels ■ ♥ CH_005 ■ ♥ CH_005 ■ ♥ CH_013 ■ ■ All connections All connections 	Page1

7. You can scroll mouse-wheel to zoom-in/ zoom-out the video, drag the video to change the viewing location.



9. Playback

9.1. Playback the Concurrent Channel

1. On live-view, select "Std. timebar" on the top.

▶ 🕦 🔜 📰 📰 📰 🔛 🔛 🕮 🕮 🕮 📰 🕨 🕨	×	Std. timebar 🗸 🔻	Simple OSD 🔹 Standard 🔹 (Pattern Sets)	•
-----------------------------	---	------------------	--	---

2. Move mouse on the time bar, the date/time of recorded data will be displayed, double-click to play the recorded video.



3. Use the playback buttons on the top to control the playback.



4. During the playback, the ">" symbol will display on the upper-left corner of video.





5. You can right-click on the time bar, and select the option to change the time period of recorded video.



6. Click **[LIVE]** button on the top will back to live-view video.



9.2. Select and Playback from Recorded Database

1. On live-view, click [Playback] button on the top-left corner.



> *** EVALUATION VERSION ***NVR - 127.0.0.1				
∎∎∎® פּעוק	i III III III III III III III III		Simple toolbar	▼ Simple OSD ▼
Standard (Pattern Sets)	LIVE 📢 IÞ 📢		I 🖸 🔍 🖸 I	Ø 📼 🗉
Live Playback SyncPlay	Page1			
Live Mode	No Channel Attached	ų -to	No Channel Attached	ų i <u>k</u>
Config System Config Console				
Config Storage Find Cameras				
New Channel New Objects	NO CHANNEL (P1.1)		NO CHANNEL (P1.2)
Tree View	Stopped		Stopped	
All channels	ocopped		ocopped	
All connections				

2. Click **[Storage Map]** button to open the *"Storage Report"* window, it is the recorded database.

> *** EVALUATION VERSION ***NVR - 127.0.0.1	
	🚦 🔠 🔟 🔛 🛄 📰 🗮 🕨 K Simple toolbar 🔹 Simple OSD 🔹
Standard (Pattern Sets) LIVE	
Playback Mode No Channel Attacher	ed 🧶 🐀 No Channel Attached 🔱 🔩
Bookmarks	
Type Channel Start NO CHANNE	EL (P1.1) NO CHANNEL (P1.2)
Stopped	Stopped
Storage Report	
	Data size Reset Save As
Browse Search Recording gap	Events Archived Logs Recording gap
Item Size Activity	Type Start End Duration
in 18:00 912.6MB ▲	Recording 12/08/10 16:19:01 12/08/10 19:01:00 2h 41m 59s
18:59 9:000	🙎 User: admin(127.0.0 12/08/10 18:24:57 12/08/10 18:54:52 29m 54s
18:57 15.3MB	
18:53 15.2MB	
18:52 15.3MB	
18:51 15.2MB	
18:50 15.3MB	
18:49 15.2MB	
	< >
18:44 15.3MB	
	CH_008 (Test_001) 💿 🖧 🗘 🔵 🔵
	> SP
18:41 15.3MB	and the first
🛅 18:40 15.3MB	
💼 18:39 15.3MB	
🛅 18:38 15.3MB	
18:37 15.2MB	
18:36 15.4MB	
18:34 15.3MB	
13.31 13.4MB	
18:30 15:4MB	
	Time: 2012/8/10 18:50:0.673
18:27 15.3MB	
2 entry(s) returned in 95ms	h.

3. On the left side, expand the channel -> date -> hour -> minute to find the recorded



data you wish to play, the video will be displayed on the bottom-right.

- 4. You can drag the playback video from *"Storage Report"* window to any *"Full-function Player"*, and then operate it in the split-window. The split-window allows display live-view and playback video simultaneously.
- 5. Use the playback buttons on the top to control the playback.



6. You can right-click on the time bar, and select the option to change the time period of recorded video.



7. To remove the playback channel from the player, left-click on the video for the pop-up menu, and then click **[Detach]**.



9.3. Export the Recorded Data

1. On the left side of *"Storage Report"* window, right-click on the channel which you wish to export the recorded data, and then click **[Export Footage]** option.

							Data size	▼ Re	set Save	As
Browse	Search	Recordin	g gap			Events /	Archived Logs Re	ecording gap		
tem			Size	Activity		Type		Start	End	Duration
	H_007 H_008(Ter H_010(Ter 12/9/4 12/8/22 12/8/21 12/8/16 12/8/15 12/8/15	st_002) Tue 2 Wed 1 Tue 5 Thu 5 Wed	Size 108.8MB 88.6GB 47.0GB 244.1MB 105.3MB 679.8MB 9.1GB 2.6GB 8.7GB	Activity 811	^		ling admin(127.0.0	12/08/13 19:05:39 12/08/10 16:19:01 12/08/13 17:41:56 12/08/13 13:21:45	12/08/15 15:04:12 12/08/13 19:05:40 12/08/13 17:57:18	Duration 1d 19h 3d 2h 4 15m 21s 9m 28s
		00 00 00 00 00 00 00 00 00 00 00 00 00	42.1MB 476.4MB 465.3MB 470.0MB 470.4MB 469.4MB 470.5MB 470.5MB 477.7MB 477.0MB 479.2MB 467.0MB 471.1MB	Add bo			est 002)	"		
		00 00 00 00 00 00 00 00 00 00 00 00 00	476.4MB 465.3MB 470.0MB 470.4MB 469.4MB 470.5MB 470.5MB 473.6MB 477.7MB 470.0MB 479.2MB				and a summer			
		00 00 00 00 00 00 00 00 00 00 00 00 00	476.4MB 465.3MB 470.0MB 470.4MB 469.4MB 470.5MB 470.5MB 473.6MB 477.7MB 470.0MB 479.2MB 467.0MB 471.1MB 470.3MB				> SP			
		00 00 00 00 00 00 00 00 00 00 00 00 00	476.4MB 465.3MB 470.0MB 470.4MB 469.4MB 470.5MB 470.5MB 477.7MB 477.7MB 477.0MB 477.0MB 477.0MB 477.1MB 470.3MB 470.3MB 443.5MB				> SP - SP 			
	Image: Constraint of the second se	00 00 00 00 00 00 00 00 00 00 00 00 00	476.4MB 465.3MB 470.0MB 470.4MB 469.4MB 470.5MB 473.6MB 473.6MB 473.0MB 473.0MB 479.2MB 467.0MB 471.1MB 470.3MB 443.5MB 440.2MB				> SP			

2. Set up the following options and then click **[Download]** button to export the recorded data.

Exp	port Footage									
	Footage Source Selection									
The channel(s) in I field will be export	Canturo Channole	CH_010 (Test_002)		Others	CH_008 (Tes CH_011 (CAI	t_001) M613M)				
The start and end	Start Time	2012/08/13 🔻 1	11:00:00	I						
time for export	End Time	2012/08/13 👻 1	11:20:00	Ŧ						
	Format	XGV					of the			
Total file size of	Filesize	160.1MB			expor	tea vi	deo			
the exported video		Exp	ort File Optic	ons			The loca	tion to save the		
	Directory	D:\								
The prefix of the	Filename Prefix	CH_010-					exported video			
filename	Max File Size	500	мв				If the file	e size of exported		
	File Numbering From	1 To	100	With 4	ł	Digits		rger than the "Max		
		E	xport Statu	5				", it will be split into		
	Current Status						multiple	· · ·		
		k this but rt export p			-> Dov	vnload	Cancel			



- 3. If you export the video with "AVI" format, you can use "Windows Media Player" to play it.
- 4. If you export the video with "XGV" format, the video quality is same as the original video, but the exported video can only be played by "APV7000-Player_Vxxx.exe" software. If you will send the exported video to others, remember also send "APV7000-Player_Vxxx.exe" software to them.