

SRN

L

Table of Contents

Part I	Product Overview	1
1	Comparison Normal Range Plug & Play Range	1
Part II	Getting Started	3
1	Making a physical connection	
	Normal Mode Plug & Play Mode	
	Plug & Play NVR in Manual Mode	
2	Samsung Tools	6
	IP Installer IPOLIS Device Manager	
-		
Part III	Configuring Samsung NVR	14
1	Initial Bootup	
	Install Wizard	
2	Network Setup	
2	Interface Setup	
3	Camera Setup Registering Camera	
	Adjusting a Camera	
Part IV	Record Setup	27
1	Configuring Recording	28
Part V	Playbacks	33
1	Search	33
	Time Search	
•	Event Search	
2	Backup Viewing	
	васкир viewing	39

1 **Product Overview**

1.1 Comparison

Some NVR shared similar specifications.

1.1.1 Normal Range

	SRN-1670D	SRN-1000	SRN-4000
PERFORMANCE			
Video Compression	H.264, M-JPEG, MPEG-4	H.264, M-JPEG, MPEG-4	H.264, M-JPEG, MPEG-4
Recording Performance	64Mbps	100Mbps	400Mbps
STORAGE / BACKUP			
Max. Number of Internal HDD	5	8	12
Max. Storage Capacity	бТВ	4TB	4TB
Internal RAID Support	N/A	RAID 5	RAID 6, RAID 5
External Storage Support	e-SATA	e-SATA	NAS
Built-in DVD Writer (for easy backup)	Yes	N/A	N/A
USB Backup	Yes	N/A	Yes
Backup File Format	BU(NVR player), EXE(include player)	JPEG, AVI	BU/Exe (GUI), JPG, AVI (Network)
ITERFACE			
Supported IP Cameras	Samsung, RTSP compatible cameras	Onvif, Samsung, RTSP compatible cameras	Onvif, Samsung, RTSP compatible cameras
Analog Video Output	VGA, HDMI	No Video out	VGA, HDMI
Audio Support	Yes	Yes	Yes
Audio Compression	G.711/723/726	G.711/726	G.711/726
Alarm I/O	16/4	16/4	8/4
USB port	3	N/A	2
eSATA port	2	2	N/A
PERATIONAL			
Max. Remote Users	Search 3 / Live unicast 10 / Live multicast 20	Search 3 / Live unicast 10 / Live multicast 20	Search 3 / Live unicast 10 / Live multicast 20
Event Notification via E-mail	Yes	N/A	Yes
Automatic Self Upgrade	Yes	Yes	Yes
USB Mouse Control	Mouse included	No mouse control	Mouse included
IR Remote Control	IR Remote Control support	N/A	N/A
Mobile Viewer Support	Android Support, iPhone Support	Android Support, iPhone Support	Android Support, iPhone Support
LECTRICAL			
Input voltage / current	100 ~ 240V AC ±10%, 50/60Hz, 4 ~ 1.5A	100 ~ 240V AC ±10%, 50/60Hz, 4 ~ 1.5A	100 ~ 240V AC ±10%, 50/60Hz, 4 ~ 1.5A (Dual SMPS)
Power Consumption	56W(1HDD)	45W(1HDD)/170W(8HDDs)	56W(1HDD)/170W(12HDDs)

1.1.2 Plug & Play Range

	SRN-472S	SRN-473S
	_	
PERFORMANCE		
Video Compression	H.264, M-JPEG	H.264, M-JPEG
Recording Performance	32Mbp	32Mbp
STORAGE / BACKUP		
Max. Number of Internal HDD	2	1
Max. Storage Capacity	бтв	6TB
Internal RAID Support	N/A	N/A
External Storage Support	N/A	N/A
Built-in DVD Writer (for easy backup)	N/A	N/A
USB Backup	Yes	Yes
Backup File Format	BU/Exe (USB), JPEG, AVI (Web, CMS)	BU/Exe (USB), JPEG, AVI (Web, CMS)
INTERFACE		
Supported IP Cameras	Samsung, ONVIF	Samsung, ONVIF
Analog Video Output	VGA, HDMI	VGA, HDMI
Audio Support	Yes	Yes
Audio Compression	G.711, G.726	G.711, G.726, AAC (16/48KHz)
Alarm I/O	4/3	2/1
USB port	2	2
eSATA port	N/A	N/A
OPERATIONAL		
Max. Remote Users	Search 3 / Live unicast 10 / Live multicast 20	Search 3 / Live unicast 10 / Live multicast 20
Event Notification via E-mail	Yes	Yes
Automatic Self Upgrade	Yes	Yes
USB Mouse Control	Mouse included	Mouse included
IR Remote Control	IR Remote Control support	IR Remote Control support
Mobile Viewer Support	Android Support, iPhone Support	Android Support, iPhone Support
ELECTRICAL		
Input voltage / current	12V DC 2.0A (NVR), 48V DC 1.4A (PSE)	48V DC / 1.8A
Power Consumption	TBD/12W(Each PoE Port)	77W(1HDD, PoE on)/16W(1HDD, PoE off)

2 Getting Started

2.1 Making a physical connection

2.1.1 Normal Mode

In normal mode application, you can combine the use of both Network 1 and Network 2 for your cameras or you can choose to use Network 1 for cameras and use Network 2 for your Internet Connection.



2.1.2 Plug & Play Mode

In Plug and Play mode. The Switch port is disabled, because the in built switch is overtaking its functionality, and the IP address cannot be changed, so that leaves the Viewer port by itself for the Internet Connection.



2.1.3 Plug & Play NVR in Manual Mode

For a Plug and Play unit, you can turn off PnP mode and make the NVR run using standard mode if you want more control over how you want your network to be.

In Manual Mode, you can use either the ports on in built switch, connect a switch to one of the port on the in built switch or use the dedicated Switch port for your switch. They will all share and function within the allowed bandwidth from the Samsung NVR.



2.2 Samsung Tools

IP Installer vs IPOLiS Device Manager

IP Installer is an simple little application, that helps the user to IP addressing the cameras. IPOLIS Device Manager is a program that helps the user to configure, manage and diagnose multiple network devices.

You can obtain both application from www.samsungsecurity.com

2.2.1 IP Installer

IP Installer requires no installation. Simply double click the IP Installer icon to start the program



0	Device Name SRN-472S	Alias NVR	Mode Static	MAC Address 00:16:6C:86:BC:55	IP Address 192, 168, 0, 198	Protocol IPv4	URL
2	SND-7061	N/A	Static	00:09:18:72:EA:D4	192, 168, 0, 192	IPv4	http://192,168,0,198 http://192,168,0,192/index,htm

Click [Search].

IP Installer should pickup all the Samsung IP device that are connected on the same network

0	Device Name SRN-472S SND-7061	Alias NVR N/A	Mode Static Static	MAC Address 00:16:6C:86:BC:55 00:09:18:72:EA:D4	IP Address 192, 168, 0, 198 192, 168, 0, 192	Protocol IPv4 IPv4	URL http://192,168,0,198 http://192,168,0,192/index.htm
		ny n	exauc	00000101ELEND4	100, 100, 0, 100	11 0 4	1100,0,100,0,100,0100,000

Choose a device and click [Manual Set]

Manual Setting		×
Address O PPPOE O DHCP IC MAC Address 00:09:18:72:EA:D4 IP Address 192 168 0 192 Subnet Mask 255 255 255 0 Gateway 192 168 0 1	Port HTTP Port 80 VNP Port 4520	
OK	Cancel	

Choose **[Static]** and put the IP address you wish to use Input the password of the camera and then click **[OK]** to confirm the change

2.2.2 IPOLIS Device Manager

IPOLIS Device Manager requires installation before use. Double click the IPOLIS Device Manager icon after installation



Device Credential Manually Add Device All Devices(2) □ P Camera/Encoder(1) □ Login Fal(0) □ Connect Fal(0) □ ReadV(0) □ ReadV(0)	Status	IP Assign Stat	FW Status Check	Statu FW Upgra	us Monito Con Baci	fig Config	Time Sync	Video Setup	Device Setup	Advance Setup	Network Diagnosis	Report	ETC
Add Device All Devices(2) - IP Camera/Encoder(1) - Login OK(1) - Login Fai(0) - Connect Fai(0)	All Devices Model	Assign										Report	ETC
IP Camera/Encoder(1) Login OK(1) Login Fail(0) Connect Fail(0)	Model	Stat		/									
Login OK(1) Login Fail(0) Connect Fail(0)		Stat									Select All	Clear	Revers
Connect Fail(0)	CDNL 472C		us Na	ame	IP mode	IP Address	MA	CAddress	F/W Ver	sion	F/W Status	ISF	0
	SRIV-4725	Ready	NVR		Static	192.168.0.198	00:16:6	C:86:BC:55	Unknown	Un	known	None	
	SND-7061	Login	OK Camer	а	Static	192.168.0.192	00:09:1	8:72:EA:D4	1.22_13121	L8 Uni	known	0.00	

Click the [Search] button. Give 30 seconds for the search to complete

					iPOLi	S Devic	e Manager							-	
Project	t Network	Log Script H	elp 1	_	Status Mo	nitor :	OFF							SI	MSUNG
Sear	ch Devic Creder		Status IP Update Assign	FW Status Check	FW Upgrade	Config Backup	Config Restore	Time Sync	Video Setup	Device Setup	Advance Setup	Network Diagnos		eport	ETC
Ξ.	2				IP Assig	gn - Mul	ltiple devio	es					-		× rse
	Assign IP A Subr	net mask : 255 eway : 192 1 :	2	. 0	192 .	168 .	0 . 199		HTTP Po Port RTSP Po	554 rt 555	mulate	3			N
Net	Model SRN-472S SND-7061	MAC Address 00:16:6C:86:BC:55 00:09:18:72:EA:D4	IP(Old) 192.168.0.198 192.168.0.192	IP(New)	Subnet(iew)	Gateway(New)	DNS1	(Old)	DNS2(Old)	НТТР 80 80	Device 554 4520	S54	Result ok ok	
2 devic											1	4 Apply	C	Close	

Assign IP Address

- 1. Click [IP Assign] button after selecting 1 or more cameras from the list
- 2. Put the IP address you want to assign to the camera
- 3. Click [Simulate] to assign the IP
- 4. Click [Apply] to confirm the change. Now you should be able to see OK in the result section

Q							iPOLiS Dev	ice N	Manage	r						-	
Project Network	Log So	cript	Help			Stat	us Monitor :	6	OFF			-					SAMSUNG
Search Device Credenti	al Add D		Status Update	IP Assign	FW Status Check	FW Upgra	config Backup		Config Restore	Time Sync		ideo etup	Device Setup	Advance Setup	Network Diagnosis	Report	ETC -
All Devices(2)	icouei(2	(Vide	o Setup	1		1				×	Reverse
⊡ Login OK(Login Fail	0)	Mod	el Name	2	Megapixel N	Iode		Vide	eo Profile	3			Name		Codec		N
Connect F Ready(0)	Fail(0)	SND-	7061	~	ЗМ		~	H.26	54	~	Delet	в	H.264		H.264	~	N
E- NVR(1)	(0)		MAC A	ddress	IP Add	ess	Result	MJPE H.26	;4		5	etting (Option	Result	Current		
Login Fail(Connect F			00:09:18	:72:EA:D4	192.168.	0.192	success	1080	4NVR) Idd profile.			isable	~				
									Resolutio	le	-	isable 048x15	√ 36 √				
Login OK(-	Framerat		1		- 00 V				
Login Fail(Connect F									Compres	sion	1	(Best)	~	4			
Ready(0)								-		64-30720)		072					
- Login OK(_	Bitrate c		-	BR	~			_	
Login Fail(Connect F		_							Encoding GOP size		1	ramerat	e v				
Ready(0)								Ľ	001 3120		1						
Network Status	_	_															
⊡ Default (*)	opporter															_	
192.168.0	.124															_	
Ethernet : Con														_			
													5	Apply	Close		
														-			
			•														۱.
2 devices searched, 2 dev	/ice selected	đ															

Create or Edit Camera Profiles

1. Click [Video Setup]

2. Choose the camera model (You will be able to configure multiple camera at ones as long as the model is the same)

- 3. You can edit or create profile in the camera
- 4. Set resolution, framerate or birate etc, for the profile selected in step 3
- 5. Hit [Apply] to save and wait until you see success for each camera

						iPO	DLiS Devic	e Mana	ager					-	
roject N	Vetwork	Log Script	t Help			Status I	Monitor :	OF	F					SA	MSUNG
Search	Device Credential	Manually Add Devic		IP Assign	FW Status Check	FW Upgrade	Config Backup	Confi Resto		Video Setup	Device Setup	Advance Setup	Network Diagnosis	eport	ETC
≕ All D(□- If	Q						Devic	e Setu	þ		\sim		-		×
e	Model N	ame							BNC Setting						
	SND-706	1	$\overline{\mathbf{v}}$						BNC	On	BNO	C Off	Get BNC	/alue	
⊡ ~ N		Name	MAC Addr	ess	IP Address		Result		Factory Rese	t					
		Camera	00:09:18:72:	EA:D4	192.168.0.19	92	success		Factory Except N		Factory	Reset All	Device Re	start	
E D								_	Sensor Mode						
										~	Ap	ply	Get Sensor	Mode	
□ - D						Г	_ 3	5		ange will res	et Framerate,	WDR, Shutte	r mode values to th	e default.	•
						_	\sim		Language		1				
									English	~			1	Apply	
_									Video source						
Book									Flip mode		C	n	Off		
letwork - Defa - E									Mirror mode		C	n	Off		
								_	Video profile	connecti	on policy				
Ė∙E									Keep con	nection wl	hen profile se	tting is cha	nged /	Apply	
									ETC						
									Simple F	ocus	Delete F	Profile 10]		
														Close	
evices se														Jiose	

Camera Quick Functions

1. Click [Device Setup]

2. Choose the camera model (You will be able to configure multiple camera at ones as long as the model is the same)

- 3. You can factory default, flip/flop camera image and simple focus from this page
- 4. You should see success in result section if done correctly

Q		iPOLIS I	Device M	/lanage	r					-	
Project Network Log Script Help		Status Monit	or:	OFF			•= 31=			4	AMSUNG 1
Search Device Manually Status Credential Add Devices Update	IP FW Status Assign Check		-	Config Restore	Time Sync	Video Setup	Device Setup	Advance Setup	Network Diagnosis	Report	ETC 🔹
All Devices(2) All Devices								^	Select All	Clear	Reverse
			Mot	ion Det	ection Set				_ C	×	N
	MAC Address 10:09:18:72:EA:D4	IP Address 192.168.0.192	Resul			Detection (Er iensitivity Enab	le	Medium	n v		
Decoder(0) Login OK(0) Connect Fail(0) Ready(0) Bookmark						Detection Sel		n support			
Network Status □ Default (*) □ Ethernet 2 : Connected □ 192.168.0.124 □ Ethernet : Connected □ 192.168.253.113 □									C	lose	
2 devices searched, 2 device selected											

Enable Motion Detection

- Click [ETC] and choose [Motion Detection]
 Click [Enable] and you should see success if camera you are using support this function

Search	Device Credential	og Script Manually Add Devices	Help Status Update	ID		Status N	Appitor :	OFF	1			11 III		SAMSUN			
E A C	Credential																
() Mc		Camera Setup – – ×															
							Camer	a Setup						- 🗆 🗙			
	odel Name	SND-7061	v					_									
	splay Device	192.168.0.			0:09:18:72:EA	.:D4		Apply	Selected Dev	vices	▶ 4						
24	ND-706121 000-03-082	92,168,0,1 20:18:19	1500, videog				5 ips	M	IAC Address	s IP	Address	Result SUCCE	SS				
G	•																
G																	
Netw ⊡-C						NITE L	8										
SS	SDR White I	balanace Back	light Expos	ure Day/N	ight Special	OSD											
N	Mode		On (Off	<												
	Level				~												
device	D-Range				\checkmark												

Camera Setup

- 1. Click [ETC] and choose [Camera Setup]
- 2. Choose the camera model you want to configure
- 3. Choose what you like to configure
- 4. Hit [Apply Selected Devices] and you should see success once completed

3 Configuring Samsung NVR

3.1 Initial Bootup

When you boot up the NVR for the first time the unit will go through Install Wizard (This is the only time you can ever do it, unless factory defaulting the unit). You can cancel this whole process and configure each individual setting via the main menu.

3.1.1 Install Wizard

Install Wizard				
1. (Language)	2. (ID/PW)	3. (Network)	>4.	(Date/Time)
Select a language to u	se.			
English	🔘 polski		🔿 ไทย	
🔘 Français	○ 日本語		🔿 Română	
O Deutsch	Nederlands		🔵 srpski	
🔿 Español	🔘 Português		🔿 hrvatski	
🔿 Italiano	🔘 Türkçe		🔿 Magyar	
〇 中文	🔘 Čeština		🔵 Ελ.λ.ηνικά	
О Русский	🔘 Dansk		🔿 suomi	
○ 한국어	🔘 Svenska		🔿 Norsk	
		Next		Exit

Install Wizaı	rd			
1. (Language)	2. (ID/PW)	3. (Network)	4. (Date/Tin	ne)
Set the time info	mation.			
 Date Time 		Finish		
· Time Zone	Will you	u finish Install Wizard?		
+ DST	Cannot reti	urn to Install Wizard again.		
	c	Cancel		
				Exit

- 1. In the [Language] tab, select the language and press [Next] button
- 2. In the [IP/PW] tab, set the password you want to use and press [Next]
- 3. In the [Network] tab, setup the network range you want to use for the camera and the Internet

NOTE: Depends on the model of the unit, you may have 2 or more networks available in the NVR Always dedicate Network 1 (Camera) for cameras and Network 2 (Viewer) for the Internet connection If you have a Plug & Play unit, then Network 1 will be automatically assign to 192.168.231.100 If its an SRN-4000, then you can use Network 1 (Camera) and Network 2 (Camera) for the cameras, and use Network 3 (Viewer) for the Internet Connection

4. Setup up [Date/Time] and click next to proceed

16	SRN		
	-		
		Camera Register	
		The number of camera registered is N. Recording profile's framerate is changed to 30fps. [Expected recording days : About XX days] Will you apply settings?	
		CK Manual Setting	
		Record Profile Setup	
		Bitrate automatically adjusted depending on the framerate.	
		1 5 10 15 20 25 30 Low ————————————————————————————————————	
		Expected recording days : XX	
		OK Cancel	

If there are 16 or less cameras searched, it will attempt to automatically register the device

		-1949-194			
	SNB-5004	192,168,1,118	00:09:18:30:A7:75	1	
	SNB-6004	172.16.10.119	00:09:18:30:94:39		
•	SNB-6010	192.168.1.29	00:09:18:05:9C:E5		
•	SNB-7000	192.168.1.204	00:16:6C:47:B7:7F		
	[ONVIF]SNC-DH140	172.16.5.132			
٠	SND-3081	192.168.1.170	00:16:6C:47:C4:50		
•	SND-6084	172.16.17.130	00:09:18:30:99:54		
	SND-6084	172.16.17.131	00:09:18:30:99:73		
	SND-6084	172.16.17.115	00:09:18:30:9A:E0		
	SND-7001	172.16.17.200	00:00:46:00:00:0A		
	SND-7001	172.16.17.200	00:00:46:00:00:09		
•		< 1/4 >			

But if there are more 16 cameras searched, then you have to first choose which camera to connect before proceeding to the next stage

3.2 Network Setup

			Setup
-0	System		> Interface
4 97	Device		DDNS
Ė.	Record		IP Filtering SSL
	Event		802.1x
	Network	>	Live Streaming E-mail
			SNMP
			DHCP Server
			Logout Return

From main menu select [Network] and click [Interface]

3.2.1 Interface Setup



1. Click **[Setup]** to change the IP address for Network 1 or Network 2

2. Change the **[Transfer Bandwidth]** for your **[Default Gateway]** which controls how much upload is allowed for remote viewing

3. Pick which network you want to use for Internet connection

NOTE: If this is PnP unit then Network 1 will always be in the 192.168.231.0 range and cannot be changed. For SRN-4000 you will have 4 separate networks instead of 2

	Interface
Network Port 1	
 Protocol Type Device Port UDP Port Multicast IP Address Multicast TTL HTTP Port 	TCP 2 554 ~ 558 8000 ~ 8159 224 126 63 1 5 80 3
 Send SSL Backup Bandwidth 	ON OFF Low Medium High
	OK Cancel

- 1. Scroll over to the [Port] section
- 2. You can change the port number to whichever range you wish
- 3. Same to TCP ports you can change HTTP port to any number

NOTE: If you want to establish remote connection from anywhere in the world, then you must port forward these ports in your router.

Visit <u>www.portforward.com</u> for more information

3.3 Camera Setup



Right click on the mouse button and go to [Menu]



Go to [Device] and click [Camera]

			c	amera					
Carr	m Registration Camera Setup Live Setup Channel Setup								
				Au		Total: 1.5 Mbps / nual Delete	0.7%		
СН	Preview	Protocol	Model	IP Address	Connection	Data Rate			
	Preview	SAMSUNG	SNB-7004	192.168.0.8	Connected	0.3Mbps (0.1%)			
	Preview	SAMSUNG	SAMSUNG CAM	192.168.0.8	Error 05	0.0Mbps (0.0%)			
	Preview	ONVIF	SNB-7004	192.168.0.8	Connected	0.3Mbps (0.3%)			
	Preview	SAMSUNG	SNB-7004	192.168.0.8	Connected	0.3Mbps (0.1%)			
	Preview	SAMSUNG	SNB-7002	192.168.0.19	Connected	0.3Mbps (0.1%)			
	Preview	SAMSUNG	SNB-7002	192.168.0.19	Connected	0.3Mbps (0.1%)			
PoE S	itatus ONV	IF Setup	<	1/3		Error code gu	ides		
				Cancel					

3.3.1 Registering Camera

If the NVR is Plug & Play then it should automatically registered the cameras, otherwise hit **[Auto]** to start searching for the cameras

		Came	ra Register				
		Number	r of Registered Channels :	6 / Number	r of Searched	Cameras : 3	¢
E	Model	IP Address	MAC -	Port -	Network 🔸	Connection	
X	1 SNB-5003	192.168.0.3	00:09:18:30:A5:3A	4520			*
	SNB-7002	192.168.0.19	00:09:18:30:17:84	4520			
		192.168.0.8	00:09:18:04:BB:CA	4520			
ID		sign IP 2				Error code gui	des
		OK	Cancel				

1. Select the cameras you want to register to the NVR

2. You can assign IP address to all selected cameras by click the **[Assign IP]** button, change the login password of the cameras if they aren't using default login, from **[ID/PW]** or skip all these process and click **[Connection Test]** to check make sure the cameras are connected correctly

NOTE: NVR sometime will detect the same cameras with same IP address, this is due to the NVR picking up Samsung protocol as well as ONVIF protocol. Do not tick the ONVIF box unless it isn't a Samsung camera

3.3.2 Adjusting a Camera

				с	amera			
	Carr	n Registration	Camera Setu	p Live Setup	Channel Setup			
	A	dd Delete	1				1 🤇	сн1
		Profile	Codec	Resolution	Frame Rate	Quality	Bitrate	Control
						<u>.</u>	Туре	Bitrate
		MJPEG	MJPEG	2048X1536	5	10	-	6144 ^
		H.264	H.264	2048X1536	15	10	VBR	2150
		Rec4NVR	H.264	2048X1536	15	1(Best)	VBR	2150
		Live4NVR	H.264	800X600	15	1(Best)	VBR	1024
		MOBILE	1 MJPEG	320X240	3	10	-	300
	Setu	P 2						
					Cancel			
					Gunder			
		SSDR	Backlight Expos	ure Day/Night Sp	ecial Focus Fi	6		
(Camer Setup	a Mode	• ON OFF					
, Int		Level	D-Ran	9		Close		
		••	12 Narro	w 🗆				

From the main camera setting page go to [Camera Setup] tab

1. You can add, delete and modify the configuration for each camera's profile to fine tune the resolution, frame rate and bitrate to suit the environment.

It is recommended to always create an additional profile for each individual camera at a lower resolution then normal, so it can stream live video more efficient

2. You can also click [Setup] to enter the camera's main menu to adjust some basic settings

				Ca	amera	3		n karajen da	
Cam R	Registration	Camera	Setup Live	Setup	Cha	nnel Setup			
СН	Live Replac	ement							
1	Auto								
2									
3	Manua	il –	Live4NVR	н.:	264	800X600	15 Fps	20	
4	Recordi	ng 👻							
	Auto								
6	Auto								
7									
8									
9									
10									
	< 1/2 ≯								
				OK	C	ancel			

Next click [Live Setup] from the tab

This section is where you have to choose a profile to send it to the main monitor. Usually it is recommended to leave on **[Auto]** so the NVR can adjust resolution accordingly on the live viewing, but in some case you can change it so it uses a specific profile for live viewing on the monitor, but please be mindful it will sometime cause extreme latency if the resolution chose for the profile is too high in resolution.

				Can	nera		
Cam Reg	istration	Camera Setu	р	Live Setup	Channel Setu	p	
							Apply to CH
СН		Video		Audio) -	Camera N	lame
1		ON		OFF		CAM 01	
2		ON		OFF	i i i	CAM 02	
3		ON		OFF		CAM 03	
4		ON		OFF	. +	CAM 04	
		ON		OFF		CAM 05	
6		ON		OFF		CAM 06	
7		ON		OFF		CAM 07	
8		ON	•	OFF		CAM 08	
	🛕 If y	ou cannot rece	ive e	vents from NVR	, please checl	k the network camera s	ettings.
				< 1	/2 >		
				ОК	Cancel		

Lastly Channel Setup allow you to enable, disable Video and Audio as well as renaming each individual channel.

4 Record Setup

			Setup
-0	System		> Recording Schedule
4 9 7	Device		Record Setup
EREC	Record	>	Record Option
	Event		
Ģ	Network		
			Logout Return

First go to [Record] from main menu then choose [Recording Schedule]

4.1 Configuring Recording



- 1. Choose a type of recording you want the NVR to perform
- 2. Drag grid in the table to change the recording mode
- 3. Click [Apply to CH] to apply the same setting to all cameras

			Setup
-0	System		> Recording Schedule
<u>4</u> .7	Device		Record Setup
REC	Record	>	Record Option
	Event		
Ç	Network		
			Logout Return

Go to back to the [Record] menu and select [Record Setup]

						Record Se	tup							
NVR	Camera													
¢	C Total Bitrate (Limit/Max) : 75.0 /80.0Mbps Apply to 0												CH	
СН			Frank		Fra	ime	Limit	. <	Ev	ent 3		Audia		
Ch	Standard	1	Event		FULL	KEY	LIMIL	Pre	Post			Audio		
1	FULL		FULL	٣	0.1M(15)	0.1M(1)	5.0M	OFF	٠	1 min	٠	OFF	۳	-
2	FULL	٣	FULL	٣			5.0M	OFF	٠	1 min	-	OFF	-	
3	FULL		FULL		0.1M(15)	0.1M(1)	5.0M	OFF		1 min		OFF	٠	
4	OFF		OFF	÷				OFF	٠	1 min		OFF	٣	
	FULL	٠	FULL	٠	0.2M(4.2)	0.1M(0.1)	5.0M	OFF	٠	1 min	٠	OFF	٠	
	FULL	٠	FULL	٠	0.2M(4.2)	0.1M(0.1)	5.0M	OFF	٠	1 min	٠	OFF		
7	FULL		FULL	Y			5.0M	OFF	*	1 min		OFF		
8	FULL	٠	FULL	w			5.0M	OFF		1 min	-	OFF		•
					<	1/2	>							
						ok (ancel							

1. [**Standard]** is the setting for continuous recording mode and [**Event]** is for motion recording and recording based on basic analytic from the camera

FULL records all frame streamed from the camera

KEY limits the recording to i-frames only and will record at 1 - 2 fps at all times

OFF simply turn off the recording all together

2. **[Limit]** is bandwidth setting which set the amount of data allowed for each camera. If the camera bandwidth exceeds **[Limit]** of the NVR, then it will forced the camera to record at **KEY** regardless of the camera setting

3. Event basically set the [Pre] and [Post] recording timer for [Event] recording

4. Enable [Audio] to record live audio is a microphone is setup

Record Setup										
NVR	Camera									
СН	Profile		Codec	Resolution	Frame Rate	Quality				
1	H.264	٣	H.264	2048X1536	15Fps	10				
2										
3	H.264	٣	H.264	2048X1536	15Fps	11				
4	H.264	Ψ	H.264	2048X1536	15Fps	10				
	H.264		H.264	2048X1536	20Fps	1(Best)				
6	H.264	٣	H.264	2048X1536	20Fps	1(Best)				
7										
8		٠								
	🛕 When profile is changed, re-measure frame data in NVR tab.									
			<	1/2						
				Cancel						

If you scroll over to the [Camera] tab, it will allow you to configure the profile you want the NVR to record at

				Setup
4	ø	System		> Sensor Detection
4 2		Device		Camera Event
罐		Record		Video Loss Detection Alarm Out Schedule
2		Event	>	
Ę	7	Network		
				Logout Return

Return to the main menu and go to [Event] and click [Camera Event]

Camera				Carr	iera Even	t				
	1							Apply t	o Cł	1
сн 🧹	Camera Event	50	MD	2	Cam	Alarm	Alar	m Durati	on -	
1	UFF	-	OFF			None	t	.0 sec	٠	
2	OFF		OFF		2	None	1	.0 sec	۲	
3	OFF		OFF			None	1	.0 sec		
4	OFF		OFF			None	1	.0 sec	٠	
	OFF	÷.	OFF	٣		None	1	.0 sec	٣	
6	OFF		OFF	٠		None	1	.0 sec	٠	
7	OFF	· •	OFF			None	1	.0 sec	٣	
8	OFF		OFF			None	1	.0 sec	٣	
	🛕 If you canno	t receiv	ve events	from	NVR, please	check the network car	nera se	ttings.		
Camera I	MD 3		<		1/2	>				
					Cance	el				

- 1. [Camera Event] choose whether or not to use a camera event
- 2. [MD] choose whether or not to use motion detection

[Camera Event] or [MD] is represented by or event is detected

3. If **[MD]** is turned on but you don't see on each camera then you must go manually setup the motion by click the **[Camera MD]** button

Camera MD	 Mode Area Sensitivity 	Motion Detection Setup Display (Area) OK
CH 1 •	Size Activation Time	Setup Display (Min. Max.) Always Only Scheduled Time Setup

Make sure [Motion Detection] is enabled and the [Detection Area] is setup

5 Playbacks

5.1 Search





From the main screen right click on the mouse and go to [Search] and select [Time Search] or [Event Search]

5.1.1 Time Search

1 2015-01-01		Search Go to Last		
	Overlapped Data	List0 -	Zoom In Zo	oom Out
	02:51:46 2 All	12 Data		24
	CAM 01			
2015/01/01 02:51:46	CAM 03		4	
📕 Standard 🛛 🔳 Camera Event	CAM 05			
Schedule Audio	CAM 07			•
Motion	3	≮ 1/2	>	
	5 Play	Return		

- 1. Choose a date from the calendar
- 2. Select the time
- 3. Pick the camera you want to look at

4. If there are footage present, you will see a colored bar as indicator. Depends on the type of record the color may varied

5. Click [Play] when ready

5.1.2 Event Search

1 CH 1 2014-01-	2		t Search 3 Event Type Setup	All			
	• Overlappe	d Data	List0 -	Go to	First	Go to Last	
	No.		Date/Time Preview			Event	
	1		07:35:11 ~ 08:18:40		Sch	edule	•
			4				
2014/01/01 07:35:11							
	(Play	Return				

- 1. Select the channel you want to look at
- 2. Select the date from the calendar
- 3. Choose a event type you want to search from the list

4. The table will automatically update itself depends on the event type, choose a particular event you want to see

5. Click [Play] when ready

5.2 Backup



From the main screen right click on the mouse and go to [Backup]

		Bac	kup	Ran	ge		
• Start	2014-01-01 07:52:3	4	DST				
• End	2014-01-01 08:15:5	3	DST				
· Device	2 USB:Mini-Boss						
· Type	NVR	3 р/ү					
+ Path	20140101	0752					
Check c	apacity 4				■ Backup ■ Used ⊠ Free	0 413.13M 3.61G	
		5 🤇	Backup		Cancel		

- 1. Select the start and end time
- 2. Make sure the NVR pickup the USB that was inserted into the USB port
- 3. Choose the backup file type that you want to save as

NVR Can only be played back using the NVR itself

AVI Standard video format, can be played on almost any computer as long as the codec is installed (Not all model supports AVI)

SEC Samsung propitiatory format, can only be played on **Windows** OS, it comes with its own player, with full speed control, multiple camera playback, snapshot as well as printing and watermarks

5.2.1 Backup Viewing



Simply click the [Play] icon to start playing the footage