

SRN

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Table of Contents

Part I	Product Overview	1
1	Comparison Normal Range Plug & Play Range	1 1 2
Part II	Getting Started	3
1	Making a physical connection	3
	Normal Mode	3 4
	Plug & Play NVR in Manual Mode	5
2	Samsung Tools	6
	IP Installer	6 8
-		0
Part III	Configuring Samsung NVR	14
1	Initial Bootup	14
	Install Wizard	14
2	Network Setup	18
2	Interface Setup	19
3	Camera Setup	21 23
	Adjusting a Camera	24
Part IV	Record Setup	27
1	Configuring Recording	28
Part V	Playbacks	33
1	Search	33
	Time Search	35
•	Event Search	36
2	Backup	37
	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)
INTERFACE			
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
OPERATIONAL			
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
ELECTRICAL			
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	6ТВ	бТВ
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



			IP In	staller v2.0.1.2 for t	he network pro	ducts	
IP C	AMERA 🔽 NVR						
No	Device Name	Alias	Mode	MAC Address	IP Address	Protocol	URL
1 2	SRN-472S SND-7061	NVB N/A	Static Static	00:16:6C:86:BC:55 00:09:18:72:EA:D4	192, 168, 0, 198 192, 168, 0, 192	IPv4 IPv4	http://192,168,0,198 http://192,168,0,192/index,htm
	Sca	an 2 Items			Pv6 Search	Aut	o Set 🛛 Manual Set 🔹 Exit

Click [Search].

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

_		4.12	1 14 1			- B	
	Device Name	Alias	Mode Statia	MAC Address	IP Address	Protocol	URL b#p://102.168.0.108
	SND-7061	N/A	Static	00:09:18:72:EA:D4	192, 168, 0, 192	IPv4	http://192,168,0,192/index.htm

Choose a device and click [Manual Set]

Manual Setting		×
Address O PPPOE O DHCP IC MAC Address 00:09:18:72:EA:D4 IP 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



@				i	iPOLiS D	evice	e Manager						-	
Project Network Log Script	Help			Statu	us Monito	r :	OFF						5	MSUNG
Search Device Manually Credential Add Devices	Status Update A	IP FV Assign	/ Status Check	FW Upgrad	Con de Bac	fig kup	Config Restore	Time Sync	Video Setup	Device Setup	Advance Setup	Network Diagnosis	Report	ETC -
- All Devices(2)	All Devices									-	-	Select All	Clear	Reverse
□ IP Camera/Encoder(1) □ Login OK(1) □ Login Fail(0)	Model	Status	Na	me	IP mode	1	IP Address	MAC	Address	F/W Ver	rsion	F/W Status	ISF	,
Connect Fail(0)	SRN-472S	Ready	NVR		Static	192.1	68.0.198	00:16:6C	:86:BC:55	Unknown	Ur	iknown	None	N
Ready(0)	SND-7061	Login OK	Camera		Static	192.1	68.0.192	00:09:18	:72:EA:D4	1.22_1312	18 Ur	iknown	0.00	N
Login Fail(0) Connect 2: Connected L 192.168.253.113 2 devices searched, 1 device selected	4				Ш									•

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

					iPOLi	S Devic	e Manager							-	
Project	t Network	Log Script H	lelp 1	_	Status Mo	nitor :	OFF							SI	MSUNG
Sear	ch Devic Creder	e Manually Add Devices	Status IP Update Assign	FW Status Check	FW Upgrade	Config Backup	Config Restore	Time Sync	Video Setup	Device Setup	Advance Setup	Network Diagnos	c is Re	eport	ETC •
Ξ.	2				IP Assig	gn - Mul	ltiple devio	es					-		× rse
	Obtain Assign IP A Subi Gate DNS	an IP address automat the following IP addres ddress : [19; net mask : [25] away : [19; 1 : [19] 2 : [19]	tcally (DHCP) 2 s 2 2 168 0 5 255 255 2 168 0 198 ~ . 0 . 1	192 .	168 .	0 . 199		HTTP Po Port RTSP Po	rt 80 554 rt 555	mulate	3			Ni Ni
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(N	lew)	Gateway(New)	DNS1	(Old)	DNS2(Old)	HTTP 80 80	Device 554 4520	S54	Result ok ok	
2 devic											(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 I	Manage	r						-	
Project Netw	ork L	og So	ript	Help			Stat	us Monitor :	6	OFF			-					AMSUNG
Search D Cre	evice edential	Manu Add De	ally evices	Status Update	IP Assign	FW Status Check	FW Upgra	Config Backup		Config Restore	Time Sync	V S	ideo ietup	Device Setup	Advance Setup	Network Diagnosis	Report	ETC +
All Devices(2) era/Enco	der(2						Vide	o Setup	1		1				×	Reverse
Logi	n Fail(0)		Mod	el Name	2	Megapixel I	1ode		Vid	a Drofile	3			Name		Codec	10	N
Conr Read	nect Fail Jy(0)	(0)	SND	7061	No.	3M		~	H.26	54	~	Delet	е	H.264		H.264	~	N
E- NVR(1)	n OK(0)			MAC /	Address	IP Add	ress	Result	MJPI H.26	EG 54		5	Setting	Option	Result	Current		
Logir	n Fail(0)	(0)		00:09:18	3:72:EA:D4	192.168	0.192	success	Live 108	4NVR.		C	isable	\vee				
	dy(1)	(0)							< </td <td>dd profile.</td> <td>.>> le</td> <td>0</td> <td>isable</td> <td>~</td> <td></td> <td></td> <td>_</td> <td></td>	dd profile.	.>> le	0	isable	~			_	
DVR(0)	n OK(0)									Resolutio	on	2	048x15	36 🗸			_	
Logir	n Fail(0) nect Fail	(0)								Compres	sion	1	(Best)	• •			_	
Read	dy(0)	(0)								Bitrate(6	64-30720)	3	072		*			
Logir	r(0) n OK(0)									Bitrate o	ontrol	1	/BR	~				
Logir	n Fail(0)	(0)								Encoding	g priority	F	ramerat	e v				
Read	dy(0)	(0)							ч	GOP size		1		~			_	
Bookmark		_																
Default (*)		_																
Ethernet	t 2 : Conn 168.0.12	ecter 4																
⊟ Ethernet	t : Conne	cted																
192.	168.253.	113												./				
														2	Apply	Close		
				4														
2 devices searched	2 douico	coloctor		•				Ш	-			-						

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

						iPC	DLiS Devic	Manage	r					-	
roject N	letwork L	.og Script	Help			Status I	Monitor :	OFF						S	AMSUNG
Search	Device Credential	Manually Add Device	Status Update	IP Assign	FW Status Check	FW Upgrade	Config Backup	Config Restore	Time Sync	Video Setup	Device Setup	Advance Setup	Network Diagnosis	Report	ETC
- All D - II	2		_				Devic	Setup			\sim				×
G	Model Na	ame						BN	IC Setting						
	SND-706:	1	$\overline{\mathbf{v}}$						BNC	On	BN	IC Off	Get Bl	NC Value	
⊡ N		Name	MAC Addr	ess	IP Address		Result	Fa	ctory Rese	t					
		Camera	00:09:18:72:	EA:D4	192.168.0.19	92	success		Factory Except N	Reset letwork	Factory	y Reset All	Device	e Restart	
E D								Se	nsor Mode	e					
										~	A	pply	Get Ser	nsor Mode	
⊡ D						Г	- 3	> "I	nis setting ch	ange will res	et Framerate,	, WDR, Shutte	r mode values	to the defaul	t.
							\sim	E	English	~]			Apply	
								Vic	leo source	•					
Book								F	lip mode			On		Off	
letwork ⊒-Defa								м	lirror mode			On		Off	
								Vic	leo profile	connecti	on policy				
⊡E									Keep cor	nection w	hen profile s	setting is cha	nged	Apply	
								ET	С						
									Simple	Focus	Delete	Profile 10			
													_		_

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

©				iPO	LiS Devio	e Manage	r					-	
Project Network Log Script	Help			Status N	/onitor :	OFF			5			4	AMSUNG 1
Search Device Manually Credential Add Device	Status Update	IP Assign	FW Status Check	FW Upgrade	Config Backup	Config Restore	Time Sync	Video Setup	Device Setup	Advance Setup	Network Diagnosis	Report	ETC 🔹
- All Devices(2)	All Device	s			~			~	~	^	Select All	Clear	Reverse
	Model SND-70	Name 061	~		N	Notion Det	ection Se	tup			_ [X	N
		MAC Ad	dress 2:EA:D4	IP Addres	ss R 192 SU	esult CCESS	Motion S	Detection (Er Gensitivity Enab Detection Se	2 Die tup	Medium	n N		
Login Fai(0) Connect Fai(0) Bookmark Network Status Default (*)							: Only S	UNAPI 2.0 or	higher version	n support			
☐ Ethernet 2: Connected											C	Close	•
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

						iPC	LiS Device	e Manage	r					
Project I	Network L	Log Script	Help			Status N	Ionitor :	ØOFF						SAMSUN
Search	Device Credential	Manually Add Devices	Status Update	IP Assign	FW Status Check	FW Upgrade	Config Backup	Config Restore	Time Sync	Video Setup	Device Setup	Advance Setup	Network Diagnosis	Report ETC
- A 🔍							Camer	a Setup						- 🗆 🗙
N	Model Name	SND-7061	Ŷ					_	_					
D	Display Device	192.168.0.	192 🗸	2 0	0:09:18:72:EA	:D4	 	Apply	Selected Dev	vices	▶ 4			
6 2	SND-70 <mark>61</mark> 2000-03-08	192 188.0.1 20:18:19	520 viueoù				5 ips	Μ	IAC Addres	s IP	Address	Result SUCCE	SS	
e	•	17W												
e							7							
Netw C		:10					8 •							
S	SSDR White	balanace Back	light Expos	ure Day/N	light Special	OSD								
	Mode		On (Off	<									
	Level				~									
levice	D-Range				~									

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 retu	urn to Install Wizard again.		
	c	K 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

	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		
	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		802.1×
	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 TI 	TCP 2 554 ~ 558 8000 ~ 8159 224 126 63 1
HTTP Port	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				
Cam Registration Camera Setup Live Setup Channel Setup								
						Total: 1.5 Mbps/0).7%	
				Au	ito Mar	nual Delete		
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 St	atus ONVI	F Setup	<	1/3		Error code gui	des	

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

		(Camera	Register				
			Number o	f Registered Channels :	6 / Number	of Searched	Cameras : 3	\$
	Model	IP Address		MAC	Port -	Network	Connection	
	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			
10.11							Encode and	
ID/I		Assign IP 2					Error code gui	des
				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			
¢	Cam Regi	stration	Camera Setu	p Live Setup	Channel Setup			
	Add	Delete					1 🤇	СН1
		Profile	Codec	Resolution	Frame Rate	Quality	Bitrate	e Control
							Туре	Bitrate
		MJPEG	MJPEG	2048X1536	5	10		6144 ^
		H.264	H.264	2048X1536	15	10	VBR	2150
	R	ec4NVR	H.264	2048X1536	15	1(Best)	VBR	2150
	Li	ve4NVR	H.264	800X600	15	1(Best)	VBR	1024
	N	NOBILE	1 MJPEG	320X240	3	10		300
	-							
Se	etup							
					Cancel			
				UN	Cancel			
		SSDR	Backlight Expo	ure Day/Night So	ecial Focus Fi			
Can	nera tuo	. Mada	• 01 0EE					
		 Level 	D-Rat			Close		
		••	I2 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

	Camera								
Cam R	Cam Registration Camera Setup Live Setup Channel Setup								
СН	Live Replac	ement -							
1	Auto								
2									
3	Manua	il 🔹	Live4NVR	Live4NVR H.264		800X600	15 Fps	20	
4	Recordi	ng 👻							
	Auto								
6	Auto								
7									
8									
9								1	
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.

o				11			
Cam Reg	istration	Camera S	Setup	Live Setup	Channel Setu	p	
							Apply to CH
СН		Video		Audi	o -	Camera Name	
1		ON		OFF	÷ .	CAM 01	
2		ON		OFF	÷	CAM 02	
3		ON		OFF	·	CAM 03	
4		ON		OFF		CAM 04	
		ON		OFF	ð – – – – – – – – – – – – – – – – – – –	CAM 05	
6		ON	1 .	OFF	C 💌	CAM 06	
7		ON		OFF	÷	CAM 07	
8		ON		OFF	÷	CAM 08	
	🛕 If y	/ou cannot	receive (events from NV	R, please check	k the network camera settin	gs.
				<	/2		

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
1 .7	Device		Record Setup
REC	Record	>	
	Event		
Ç	Network		
			Logout Return

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

	Record Setup													
N	٧R	Camera												
Φ	C Total Bitrate (Limit/Max) : 75.0 /80.0Mbps Apply to CH													
	ц	Standard		Event		Fra	ime	Limit	\sim	Eve	ent 3	Audio		
		Standard	' * I	Event		FULL	KEY		Pre		Post	Audio	4	
1	l	FULL		FULL		0.1M(15)	0.1M(1)	5.0M	OFF	٣	1 min	OFF	* *	
2	2	FULL	٠	FULL	٠			5.0M	OFF		1 min	OFF	*	
3	3	FULL		FULL	۲	0.1M(15)	0.1M(1)	5.0M	OFF	•	1 min	OFF	•	
4	1	OFF		OFF					OFF	٠	1 min	OFF	•	
S	5	FULL	٣	FULL	٠	0.2M(4.2)	0.1M(0.1)	5.0M	OFF		1 min	OFF	-	
		FULL		FULL	٠	0.2M(4.2)	0.1M(0.1)	5.0M	OFF	٣	1 min	OFF	-	
7	7	FULL	- 7	FULL				5.0M	OFF	*	1 min	OFF	-	
8	3	FULL	٣	FULL	٠			5.0M	OFF	٠	1 min	OFF	-	
	< 1/2 >													
							OK	Cancel						

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	H.264	2048X1536	15Fps	10 ^			
2		-						
3	H.264	H.264	2048X1536	15Fps	11			
4	H.264	H.264	2048X1536	15Fps	10			
	H.264	H.264	2048X1536	20Fps	1(Best)			
6	H.264	H.264	2048X1536	20Fps	1(Best)			
7		-						
8		•						
⚠️ When profile is changed, re-measure frame data in NVR tab.								
< 1/2 >								
			K 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
ų	ø	System		> Sensor Detection
4 2	T	Device		Camera Event
ĖĘ		Record		Alarm Out Schedule
2		Event	>	
Ę	7	Network		
				Logout Return

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

				Can	nera Even	t	
Camer	а						
	1						Apply to CH
СН	Camera Event	50	MD	2	Cam	Alarm	Alarm Duration
1	OFF		OFF			None	10 sec
2	OFF		OFF		2	None	10 sec
3	OFF		OFF			None	10 sec
4	OFF		OFF	•		None	10 sec
	OFF		OFF			None	10 sec
6	OFF		OFF	٠		None	10 sec
7	OFF		OFF			None	10 sec
8	OFF		OFF			None	10 sec 🗸 🗸
	🛕 If you cann	ot rece	ive events	from	NVR, please	check the network car	mera settings.
Camera	a MD 3		<		1/2	>	
					Cance	el di	

- 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 Verlay Setup Verlay (C Area)
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	Time Go to First	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-	1 2 Event Search 3 CH 1 2014-01-01 Event Type Setup All									
	· Overlappe	d Data List0 G	io to First Go to Last							
	No.	Date/Time Preview	Event							
	1	07:35:11 ~ 08:18:40	Schedule *							
2014/01/01 07:35:11										
		5_								
		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