



WISENET

NVR Quick Reference Guide

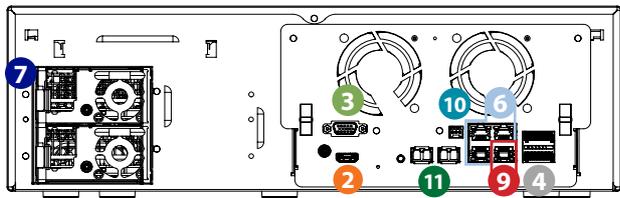
Note: Advanced features must be configured separately

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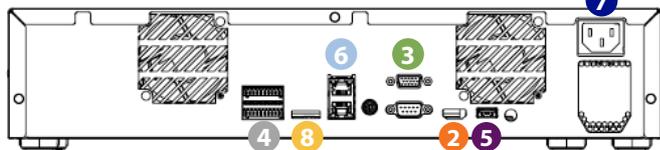
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NVR Ports

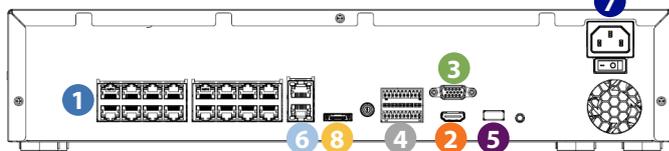
PRN-4011



XRN-3010 / XRN-2011 / XRN-2010 / XRN-1610



XRN-1610S



XRN-810S



XRN-410S



QRN-810



QRN-410



- 1 PoE Ports
- 2 HDMI
- 3 VGA
- 4 I/O
- 5 USB
- 6 Viewer Network
- 7 Power
- 8 E-SATA
- 9 iSCSI
- 10 RS-232C
- 11 Optical I/F

NVR Setup

The slide features a dark gray background on the left and bottom, and a light gray background on the top right. A white diagonal line separates the two gray areas. A bright orange triangle is positioned in the bottom right corner, partially overlapping the dark gray area.

1. Initial NVR Setup – Using the Setup Wizard

Initial setup process for the NVR utilizing the Setup Wizard. A monitor and mouse must be connected to the NVR to perform this initial configuration with the Setup Wizard.

01 Select language

Install Wizard

1. (Language) > 2. (ID/PW) > 3. (Network) > 4. (Date/Time)

Select a language to use.

<input type="radio"/> English	<input type="radio"/> polski	<input type="radio"/> Türk
<input type="radio"/> Français	<input type="radio"/> 日本語	<input type="radio"/> Română
<input type="radio"/> Deutsch	<input type="radio"/> Nederlands	<input type="radio"/> srpski
<input type="radio"/> Español	<input type="radio"/> Português	<input type="radio"/> hrvatski
<input type="radio"/> Italiano	<input type="radio"/> Türkçe	<input type="radio"/> Magyar
<input type="radio"/> 中文	<input type="radio"/> Čeština	<input type="radio"/> ελληνικά
<input type="radio"/> Русский	<input type="radio"/> Dansk	<input type="radio"/> suomi
<input type="radio"/> 한국어	<input type="radio"/> Svenska	<input type="radio"/> Norsk

Prev Next Exit

02 Set password

Install Wizard

1. (Language) > 2. (ID/PW) > 3. (Network) > 4. (Date/Time)

Use a combination of alphabets and numbers with eight or more letters.

- ID: admin (Administrator)
- New Password: [password field]
- Confirm Password: [password field]

View password

Is the password of camera factory reset state? Yes No

Please enter the current password to register the camera.

- Password: [password field]

View password

Prev Next Exit

03 Configure network

Install Wizard

1. (Language) > 2. (ID/PW) > 3. (Network) > 4. (Date/Time)

Check the port in the back and set it properly.
If you use the basic setting, you can press Next now.

- DHCP Server: Run Setup Stop

An IP is automatically assigned to the camera when the DHCP server is set to Run.

- Network 1 (Camera): Setup 192.168.1.200
- Network 2 (All): Setup 192.168.2.200

Prev Next Exit

04 Set time and date

Install Wizard

1. (Language) > 2. (ID/PW) > 3. (Network) > 4. (Date/Time)

Set the time information.

- Date: 2017-02-16 (YYYY-MM-DD)
- Time: 20:25:04 (24 Hours)
- Time Zone: GMT
- DST: Mar Last(Sun) 1H ~ Oct Last(Sun) 1H

Prev Next Exit

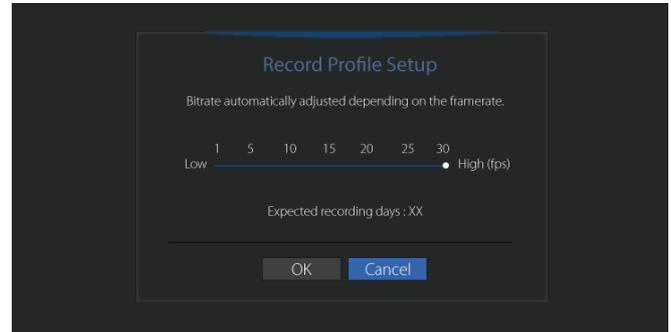
2. Camera Registration

The NVR will scan the network and register all cameras found on the network.

Auto Camera Registration



01 The searched camera(s) will automatically be registered and the initial recording retention time (number of days) will be displayed.



02 If you choose <Manual Setting> You can adjust the recording frame rate yet increase your retention capacity (number of days).

3. User

How to setup user groups and assign permissions.

- 01 Type in the NVR IP address assigned during the initial setup wizard in a web browser
- 02 When login page appears, enter the admin account credential that was assigned during the initial setup wizard
- 03 Go to SETUP > SYSTEM > USER

The screenshot displays the NVR web interface. On the left sidebar, the 'Setup' menu is highlighted in blue, and the 'System' dropdown is open, showing 'User' selected. The main content area is titled 'User' and shows a list of user groups: 'Admin' and 'Users'. The 'Users' group is selected, and the 'Group Information' section is visible, showing 'Group Name: Users' and a 'Setup' button. Two dialog boxes are overlaid on the right: 'Group Permission' and 'Permission Setup'. Orange arrows point from the 'Setup' buttons in the 'User' section to these dialog boxes. The 'Group Permission' dialog shows 'All CHS' selected and a grid of 8 checkboxes. The 'Permission Setup' dialog shows 'All' selected and various permission categories like 'System', 'Device', 'Record', 'Event', and 'Network'.

Next step is to assign user accounts under every user group created.

4. Camera Registration

How to add cameras to the NVR if not setup during initial NVR setup (Setup Wizard).

01 Go to SETUP > DEVICE > CAMERA REGISTRATION

- Setup
- System
- Device
 - Camera
 - Cam Registration**
 - Camera Setup
 - Camera Password
 - Live Setup
 - Channel Setup
 - Storage Device
 - Device/Format
 - iSCSI
 - HDD Alarm
 - Monitor
 - Text
 - Device
 - Event
 - Record
 - Event
 - Network

02 Click on Auto to search the network for IP cameras

03 Enter the user name and password for the selected cameras

Ch	Private	Protocol	Model	IP Address	Connection	Data Rate
1	Private	SANSUNG	XND-4080RV	192.168.60.185	Connected	8.7 Mbps (8.4 %)
2	Private	SANSUNG	PMH-9020V	192.168.60.182	Connected	6.3 Mbps (6.2 %)
3	Private	SANSUNG	PMV-9080R	192.168.60.177	Connected	7.6 Mbps (7.5 %)
4	Private	SANSUNG	SND-4080	192.168.60.201	Connected	6.7 Mbps (6.6 %)
5	Private	SANSUNG	SND-9080R	192.168.60.205	Connected	5.3 Mbps (5.3 %)
6	Private	SANSUNG	QMV-7010R	192.168.60.207	Connected	3.8 Mbps (3.8 %)
7	Private	SANSUNG	PMF-8018R	192.168.60.231	Connected	7.7 Mbps (7.6 %)
8	Private	SANSUNG	PMH-9080R	192.168.60.232	Connected	3.2 Mbps (3.2 %)

Number of Registered Channels : 8 / Detected Cameras : 23

Model	IP Address	MAC	Port	HTTP Port	Network	Connection
<input type="checkbox"/> SNH-P6410B	192.168.60.107	00:16:c:82:8b:ba	4520	80	2	
<input type="checkbox"/> SNZ-6320	192.168.60.171	00:16:c:9d:9b:34	4520	80	2	
<input type="checkbox"/> PMV-9080R	192.168.60.177	00:16:c:ba:70:87	4520	80	2	Registered
<input type="checkbox"/> SND-7094	192.168.60.179	00:16:c:85:87:ac	4520	80	2	Registered
<input type="checkbox"/> PMH-9020V	192.168.60.182	00:16:c:bc:84:89	4520	80	2	Registered
<input type="checkbox"/> SNB-6004	192.168.60.183	00:09:18:30:9d:6e	4520	80	2	Registered
<input type="checkbox"/> XND-6080RV	192.168.60.185	00:16:c:f9:20:5e	4520	80	2	Registered

04 Click CONNECTION TEST then OK

Optional: To assign camera IP addresses if DHCP is turned off

Assign IP

Gets an IP automatically, (DHCP)

Assign the following IP address

MAC Address
00:09:18:30:9d:6e

IP Address
192 . 168 . 60 . 183

Subnet Mask
255 . 255 . 255 . 0

Gateway
192 . 168 . 60 . 1

Device Port
4520

HTTP Port
80

Password

4. Camera Registration Cont.

How to add cameras to the NVR if not setup during initial NVR setup (Setup Wizard).

05 Must press the OK to save camera selection

The screenshot shows a camera registration interface with a table of camera details. The table has columns for CH, Preview, Protocol, Model, IP Address, Connection, and Data Rate. The 'Manual' button is highlighted with an orange box. Below the table, there is an 'ONVIF Setup' button and an 'Error code guides' button. A warning icon is present with the text: 'In case of HTTPS mode in ONVIF/RTSP protocol, the percent of performance occupied is double the amount of data.' The 'OK' button is highlighted with an orange box.

CH	Preview	Protocol	Model	IP Address	Connection	Data Rate
1	Preview	SAMSUNG	SAMSUNG-CAM	192.168.1.10	Error 01	0.0 Mbps (0.0 %)
2	Preview	SAMSUNG	PNP-9200RH	10.1.10.172	Connected	3.5 Mbps (1.9 %)
3	Preview	SAMSUNG	SAMSUNG-CAM	10.1.10.151	Error 01	0.0 Mbps (0.0 %)
4	Preview	SAMSUNG	SAMSUNG-CAM	10.1.10.164	Error 01	0.0 Mbps (0.0 %)
5	Preview	SAMSUNG	PNF-9010R	10.1.10.239	Error 01	0.0 Mbps (0.0 %)
6	Preview	SAMSUNG	SNB-5003	10.1.10.121	Connected	1.0 Mbps (0.5 %)
7	Preview	SAMSUNG	SAMSUNG-CAM	10.1.10.163	Error 01	0.0 Mbps (0.0 %)
8	Preview	SAMSUNG	QNV-6020R	10.1.10.166	Connected	3.5 Mbps (1.9 %)
9	Preview	SAMSUNG	QNO-6020R	10.1.10.131	Connected	0.4 Mbps (0.2 %)
10	Preview	SAMSUNG	SNB-6004	10.1.10.158	Connected	0.2 Mbps (0.1 %)
11	Preview	SAMSUNG	SNB-6004	10.1.10.155	Connected	2.8 Mbps (1.5 %)
12	Preview	SAMSUNG	SNB-6004	10.1.10.157	Connected	3.4 Mbps (1.8 %)
13	Preview	SAMSUNG	SNB-6005	10.1.10.120	Connected	2.1 Mbps (1.1 %)
14	Preview	SAMSUNG	SNB-8000	10.1.10.159	Connected	2.9 Mbps (1.6 %)
15	Preview	SAMSUNG	XNV-8080R	10.1.10.148	Connected	2.2 Mbps (1.2 %)
16						

ONVIF Setup Error code guides

In case of HTTPS mode in ONVIF/RTSP protocol, the percent of performance occupied is double the amount of data.

OK

Optional: Manual camera registration

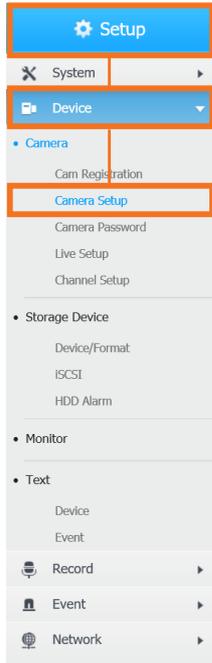
The screenshot shows the 'Add Manually' camera registration form. It has two tabs: 'Auto' and 'Manual'. The 'Manual' tab is selected. The form includes the following fields:

- CH: 8
- Protocol: SAMSUNG ONVIF RTSP
- Model: Unknown
- Address Type: Unknown
- IP Address: [] . [] . [] . []
- Device Port: [] (Max.65535)
- HTTP Port: [] (Max.65535)
- ID: []
- Password: []

5. Camera Setup

Adding, deleting and editing profiles on the cameras and configuring common camera attributes (i.e. WDR, BLC, D/N).

01 Go to SETUP > DEVICE > CAMERA SETUP



02 Edit/Add/Delete Camera Profiles

The screenshot shows a table titled 'Camera Profiles' with columns for Profile, Codec, Resolution, Frame Rate, and Bitrate Control (Type, Bitrate, Bitrate Range). Below the table are three buttons: 'Setup', 'Camera website', and 'Dewarping Setup', all of which are highlighted with orange boxes.

Profile	Codec	Resolution	Frame Rate	Bitrate Control		
				Type	Bitrate	Bitrate Range
MJPEG	MJPEG	3840X2160	1	-	6144	4096 ~ 6144 Kbps
H.264	H.264	3840X2160	30	VBR	4096	2560 ~ 30720 Kbps
H.265	H.265	3840X2160	30	VBR	8192	2048 ~ 30720 Kbps
OmniV411H264S1	H.264	3840X2160	30	VBR	4096	2560 ~ 30720 Kbps
OmniV411JPEG51	MJPEG	320X240	3	-	2048	256 ~ 15360 Kbps
OmniV411H264S2	H.264	3840X2160	30	VBR	12288	2560 ~ 30720 Kbps
OmniV4C1Audio	H.264	320X240	1	VBR	12288	256 ~ 30720 Kbps
Live4NVR	H.264	800X600	30	VBR	1024	512 ~ 30720 Kbps
MOBILE	MJPEG	320X240	3	-	2048	256 ~ 15360 Kbps

Optional: Fisheye dewarping options

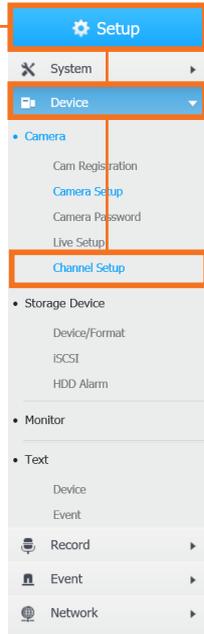
Optional: Bring the camera webpage

Optional: Advanced camera setup

6. Channel Setup

Renaming camera titles.

01 Go to SETUP > DEVICE > CHANNEL SETUP



02 Edit the channel name

The screenshot shows a "Channel Setup" window with a table of 8 channels. The table has columns for "CH+", "Video", "Audio", and "Camera Name". The "Camera Name" column is highlighted with an orange box. An "Apply to CH" button is visible in the top right corner.

CH+	Video	Audio	Camera Name
1	ON	OFF	01 Front Door
2	ON	OFF	CAM 02
3	ON	OFF	CAM 03
4	ON	OFF	CAM 04
5	ON	OFF	CAM 05
6	ON	OFF	CAM 06
7	ON	OFF	CAM 07
8	ON	OFF	CAM 08

03 Click <Apply to CH>

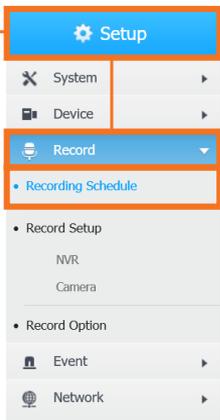
The screenshot shows the same "Channel Setup" window as in step 02. The "Apply to CH" button in the top right corner is now highlighted with an orange box. The table content remains the same.

CH+	Video	Audio	Camera Name
1	ON	OFF	01 Front Door
2	ON	OFF	CAM 02
3	ON	OFF	CAM 03
4	ON	OFF	CAM 04
5	ON	OFF	CAM 05
6	ON	OFF	CAM 06
7	ON	OFF	CAM 07
8	ON	OFF	CAM 08

7. Recording Schedule

How to set recording schedule.

01 Go to SETUP > RECORD > RECORDING SCHEDULE



02 Select desired channel number 1 and recording mode 2. Then select hours and days on the 24/7 table 3.

*Recommended to use Both 4 when performing constant recording.

Recording Schedule

CH 1 1 Channel number

All	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sun																								
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								
Holiday																								

Continuous – Constant recording
Event – Alarm, Camera event recording only
Both – Record continuously and also mark events
No Recording – Will not record

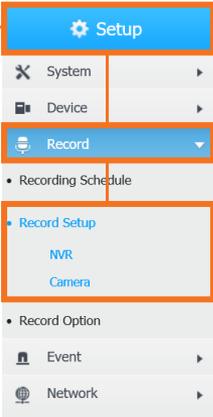
2 Recording Mode

03 Apply to the desired channels

8. Recording Setup

How to set frame rate recording on continuous and event and how to select recording profile from camera.

01 Go to SETUP > RECORD > RECORDING SETUP



02a From NVR

The screenshot shows a table titled 'NVR' with columns for CH, Standard, Event, Frame (FULL, KEY), Limit, Event (Pre, Post), and Audio. The table contains 8 rows of data. Orange boxes highlight the 'Standard' and 'Event' columns for rows 1-3, and the 'Limit' and 'Event' columns for rows 4-8. A text label 'Pre/Post event recording time' points to the 'Event' column for row 4.

CH	Standard	Event	Frame		Limit	Event		Audio
			FULL	KEY		Pre	Post	
1	FULL	FULL	0.7 M (29.0)	0.3 M (0.5)	12.0 M	5 sec	30 sec	OFF
2	FULL	FULL	0.2 M (20.0)	0.1 M (0.1)	12.0 M	5 sec	30 sec	OFF
3	FULL	FULL	7.6 M (20.0)	1.8 M (1.0)	12.0 M	5 sec	30 sec	OFF
4	FULL	FULL	6.6 M (18.9)	1.9 M (1.0)	12.0 M	5 sec	30 sec	OFF
5	FULL	FULL	1.4 M (7.0)	0.5 M (0.2)	12.0 M	5 sec	30 sec	OFF
6	FULL	FULL	3.8 M (20.0)	0.1 M (0.1)	12.0 M	5 sec	30 sec	OFF
7	FULL	FULL	7.6 M (24.6)	1.5 M (1.0)	12.0 M	5 sec	30 sec	OFF
8	FULL	FULL	-	-	12.0 M	5 sec	30 sec	OFF

Frame rate selection in continuous (Standard) and Event.

Max recording bandwidth / channel

Pre/Post event recording time

02b From Camera

The screenshot shows a table titled 'Camera' with columns for CH, Profile, Codec, Resolution, and Frame Rate. The table contains 8 rows of data. Orange boxes highlight the 'Profile' column for rows 1-4 and the 'Codec' column for rows 5-8. A text label 'Select the profile from the camera that the NVR will record *Usually profile 2' points to the 'Profile' column for row 4.

CH	Profile	Codec	Resolution	Frame Rate
1	H.264	H.264	1920X1080	30fps
2	H.264	H.264	4096X1800	30fps
3	H.264	H.264	3840X2160	30fps
4	SourceH264	H.264	2592X1944	25fps
5	H.264	H.264	2592X1944	30fps
6	H.264	H.264	2592X1520	20fps
7	FisheyeView	H.264	2992X2992	25fps
8				

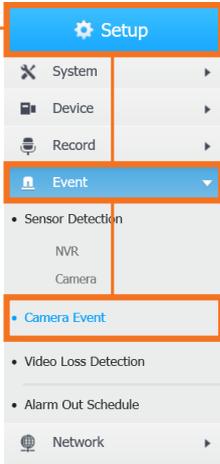
Select the profile from the camera that the NVR will record *Usually profile 2

⚠ When profile is changed, re-measure frame data in NVR tab.

9. Event Setup (Motion Detection)

How to set motion detection and analytics.

01 Go to SETUP > EVENT > CAMERA EVENT



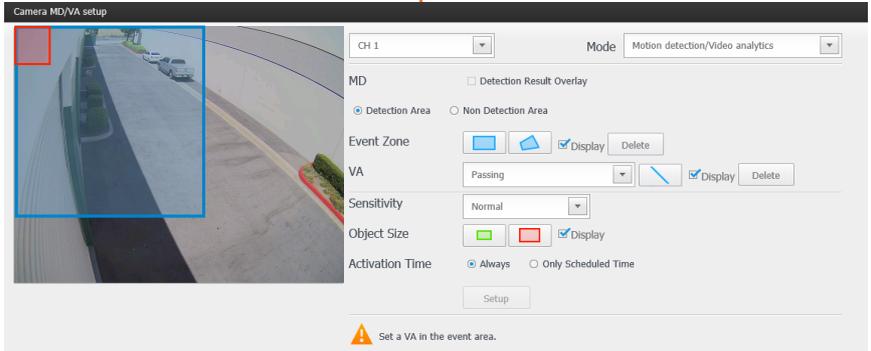
02 Turn on camera event and Motion Detection

Camera Event

Camera MD/VA setup

CH >	Camera Events >	MD >	Smart Search >	Cam >	Alarm >	Alarm Duration >
1	ON	ON	ON	1	None	10 sec
2	ON	ON	ON	2	None	10 sec
3	ON	ON	ON	3	None	10 sec
4	ON	ON	ON	4	None	10 sec
5	ON	ON	ON	5	None	10 sec
6	ON	ON	ON	6	None	10 sec

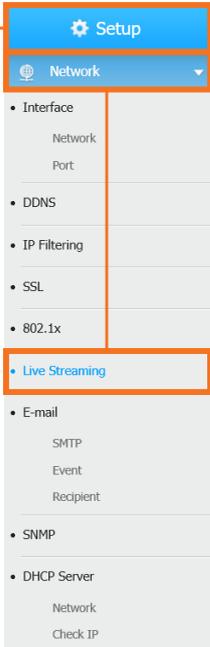
03 Setup the motion detection box



10. Live Streaming

How to set resolution for live streaming.

01 Go to SETUP > NETWORK > LIVE STREAMING



02 Choose the live view profile

Live Streaming

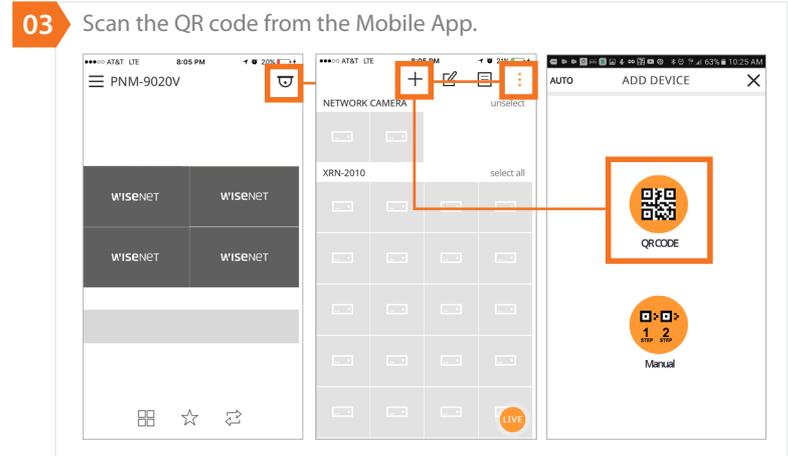
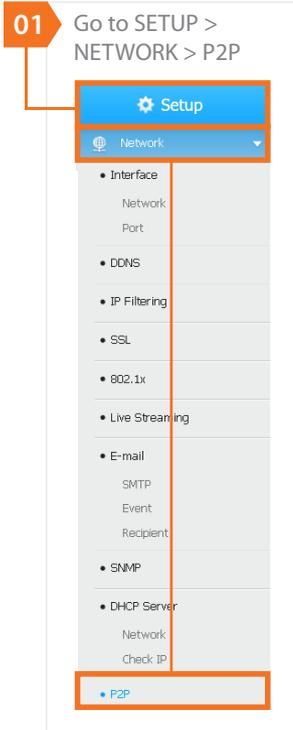
CH#	Profile	Codec	Resolution	Frame Rate
1	Live4NVR	H.264	1920 x 1080	30 fps
2	Live4NVR	H.264	720 x 576	30 fps
3	Live4NVR	H.264	800 x 600	30 fps
4	Live4NVR	H.264	800 x 600	20 fps
5	H265LowRes	H.265	320 x 240	30 fps
6	Live4NVR	H.264	800 x 600	20 fps
7	Live4NVR	H.264	640 x 640	25 fps
8				

* Recording and viewing profiles can be different. It is recommended to use a higher resolution and frame rate for recording, and a lower resolution and frame rate for live viewing for smoother operation.

11. Network – P2P (Wisenet Mobile App)



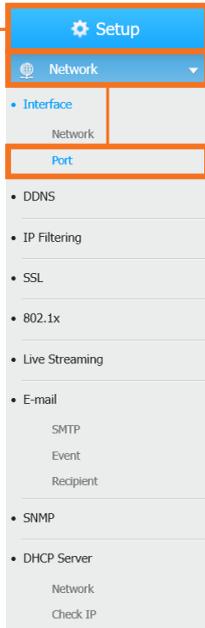
How to add an NVR to the Wisenet Mobile app with a QR code. Applicable for 4 and 8 channel NVRs with XRN or QRN prefix.



12. Network – Remote Access for NVRs without QR Code

Ports are required to be forwarded for remote access (applies to all NVRs beginning with QRN and XRN except the 4 and 8 channel models). *Separate router configuration is required.

01 Go to SETUP > NETWORK > PORT



02 To forward necessary ports through router:
Check which ports are being used in your network. The default ports are TCP 80, TCP 554-558. If you are using Quick Connect/UPnP, the ports should be forwarded automatically.

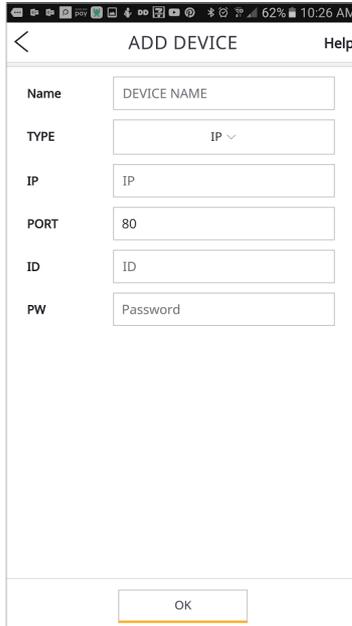
Protocol Type	TCP
Device Port	554 ~ 558
UDP Port	8000~8159
Multicast IP Address	224 . 126 . 63 . 1
Multicast TTL	5
HTTP Port	80
Send SSL	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Backup Bandwidth	<input checked="" type="radio"/> Low <input type="radio"/> Medium <input type="radio"/> High

13. Wisenet Mobile App

How to manually add an NVR to the Wisenet Mobile App.



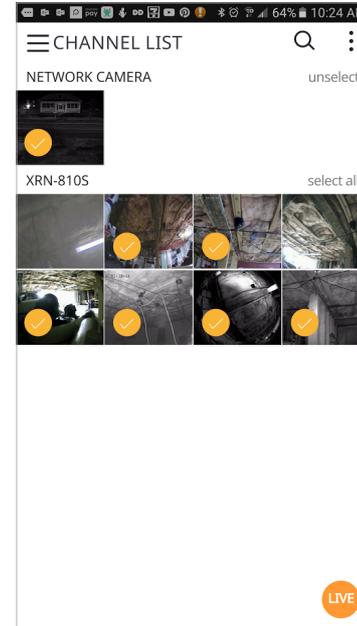
App supports viewing by channel, search, favorites, bookmarks, PTZ controls, fisheye dewarping, H.265 codec, & more.



Manual entry



Scanning the network for IP cameras



Selecting the desired channels

The image features a dark gray background on the left and bottom, transitioning to a light gray background on the top right. A diagonal white line separates the dark and light areas. In the bottom right corner, there is a small orange triangle. The text "NVR Live View" is written in a bold, white, sans-serif font in the lower-left quadrant.

NVR Live View

1. Live View (NVR Webpage)

Selections for Live View operation on NVR web browser.

The image displays a screenshot of an NVR web browser interface. On the left side, there is a control panel with various settings. The main area shows four live video feeds arranged in a 2x2 grid. The top-left feed shows a street scene with a white car and a white van. The top-right feed shows a parking lot with a dark van and a white car. The bottom-left feed shows a parking lot with a white van and a white car. The bottom-right feed shows a fisheye view of a parking lot. Three callout boxes with orange borders and white text are overlaid on the interface:

- Live view**: Points to the top-left video feed.
- Layout setup**: Points to the top-right video feed.
- Option: PTZ and Fisheye dewarping control**: Points to the bottom-left video feed.

The control panel on the left includes a 'Live' button, a 'Layout 01' dropdown menu, a 'Ch. Table' section with a grid of channel numbers, and a 'Sequence' section with a circular PTZ control and a 'Fisheye' dropdown menu.

2. Live View (Smart Viewer Client Software)

Selections for Live View operation on Smart Viewer.

The screenshot displays the Smart Viewer software interface. On the left, a sidebar contains a 'Camera' list with 'CAM 14(4)' selected, and a 'PTZ' control panel with a circular navigation pad and various function buttons. The main area shows a 2x2 grid of camera feeds. The top-left feed is a fisheye view of a building. The top-right feed shows a parking lot with a callout box stating 'Enables a secondary monitor'. The bottom-left feed shows a street view with a callout box stating 'PTZ and Fisheye controls'. The bottom-right feed shows a parking lot with a callout box stating 'Local recording and snapshots'. A callout box at the bottom center states 'Layout options'. The interface includes a top navigation bar with 'Live', 'Search', and other icons, and a bottom status bar with a timeline and system information.

Enables a secondary monitor

Camera Selection under every NVR

PTZ and Fisheye controls

Local recording and snapshots

Layout options

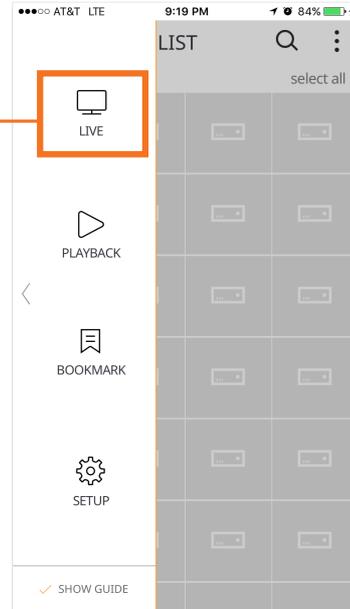
3. Live View (Wisenet Mobile App)

Selections for Live View operation on Wisenet Mobile App.

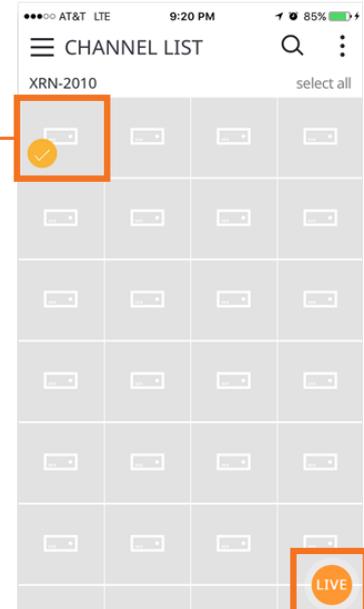
01 Run the app and go to the main menu



02 Select LIVE



03 Select the desired cameras



04 Select LIVE



NVR Playback

1. Playback and Backup (NVR Web Page)

Selections for playback operation on NVR web browser.

The screenshot displays the NVR web browser interface. The top navigation bar includes 'Live', 'Search', 'Setup', 'Text', 'admin', 'Quick Setup', 'Manual Backup', 'Status', and 'Help'. The left sidebar contains a 'Time Search' calendar, a 'Text Search' input field, and camera controls for 'CH 01'. The main area shows a 'Time Line' view with a legend for event types: Standard, Motion, Schedule, Camera Event, Audio Detection, Sensor, and DST. Playback controls are visible at the bottom right of the timeline.

Annotations on the screenshot include:

- Search**: Points to the search bar in the top navigation bar.
- Date and Channel search, Once selected, click on the search button**: Points to the 'Time Search' calendar and the search button below it.
- Select the desired time**: Points to the 'Time Line' view.
- Video Backup**: Points to the 'Manual Backup' button in the top navigation bar.
- Playback controls**: Points to the playback controls at the bottom right of the timeline.

2. Playback and Backup (Smart Viewer)

Selections for playback operation on Smart Viewer.

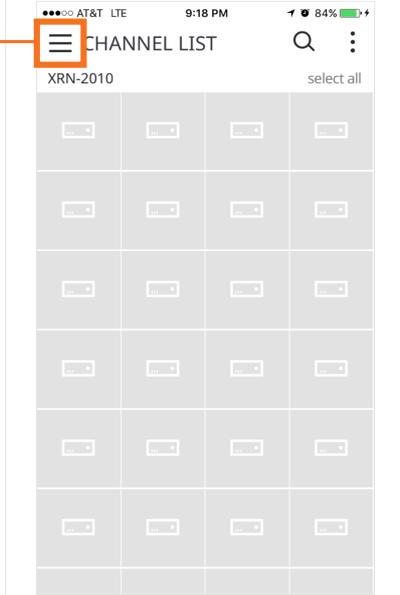
The screenshot displays the Smart Viewer interface with several key components highlighted by orange callouts:

- Search:** A search icon in the top right corner and a search input field overlaid on the video feed.
- Date and Channel search:** A callout pointing to the 'Date Search' section, which includes a calendar for the month of May 2017.
- Select event type (i.e. motion, alarm, analytics):** A callout pointing to the 'Advanced Search' section in the left sidebar.
- Playback controls:** A callout pointing to the playback control buttons (play, pause, stop, etc.) at the bottom left.
- Video Backup:** A callout pointing to the video backup icon at the bottom center.
- Select the desired time:** A callout pointing to the timeline at the bottom, which shows a grid of time slots for various cameras (CAM 01 to CAM 05).

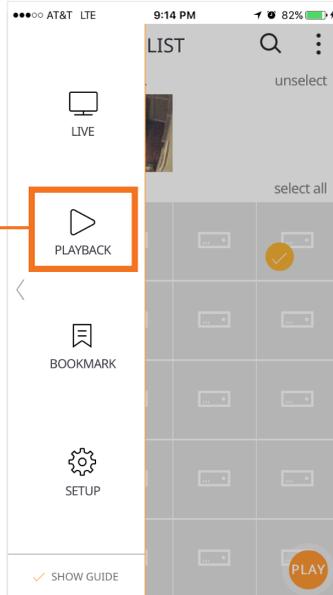
3. Playback and Backup (Wisenet Mobile App)

Selections for playback operation on Wisenet Mobile App.

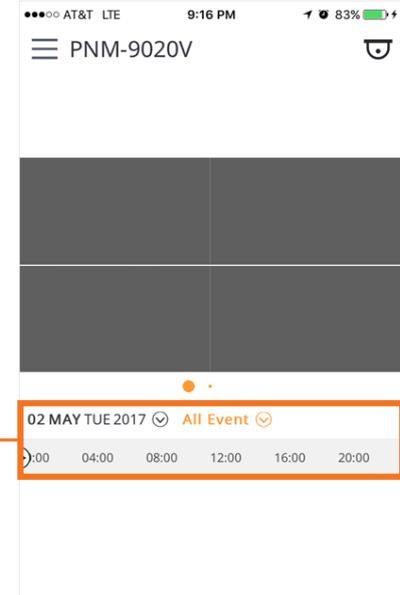
01 Click on the main menu



02 Select Playback



03 Select event type (i.e. motion, alarm, analytics) and the desired time



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