


speco technologies  
**N16NRX Facial  
Recognition  
Recorder with  
Smart Analytics**



# speco technologies N16NRX Facial Recognition Recorder with Smart Analytics User Guide

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## speco technologies N16NRX Facial Recognition Recorder with Smart Analytics



## Specifications

- **Models:** N8NRX, N16NRX
- **Channels:** 8 or 16
- **Version:** 1.0
- **Website for Updates:** [www.specotech.com](http://www.specotech.com).

## FAQs

- **Q: What should I do if I forget my password?**

- **A:** You will need to remember the answers to your security questions to reset your password. If you are locked out, contact Speco Technologies Technical Support for assistance.

## MODELS

### N8NRX



### N16NRX



Version 1.0

Features and specifications are subject to change, please check [www.specotech.com](http://www.specotech.com) for firmware updates.

## Welcome!

- Thank you for purchasing this NVR.
- This guide is designed to be a quick reference for installing the system.
- Please read this guide carefully before installing and operating the unit.
- For more detailed information, please refer to the user manual.
- If technical assistance is needed, please contact Speco Technologies Technical Support.
  - **Phone:** 1-800-645-5516 option 3
  - **Email:** [techsupport@specotech.com](mailto:techsupport@specotech.com).

## Important Safeguards and Warnings

- Speco Technologies assumes no liability or responsibility for any fires or electrical shock caused by improper handling or installation.
- Speco Technologies is not liable for any problems caused by unauthorized modifications or attempted repair.

**Note:** All of the installation and operations here should conform to your local electric safety rules.

## Contents

### Check Unit and Accessories

After unpacking the unit, please check for any visible damage. Then check to make sure that all accessories are included. Check that the model number and serial number that is listed on the label and on the unit are the same as what is listed on the package label.

### Connections

To quickly get started, connect the following to your recorder in the following order, please refer to Figure 1 (N8NRX shown for reference).

1. Connect IP cameras to the PoE ports of the recorder.
2. Connect a monitor to the recorder via a VGA or HDMI cable (not included).
3. Connect the included optical mouse to any USB port of the recorder.
4. Connect the power adapter to the recorder and plug the power cord into a 120VAC 50/60Hz outlet.
5. Connect the recorder to the network (optional).
6. Turn on the power switch and allow the recorder to boot up.

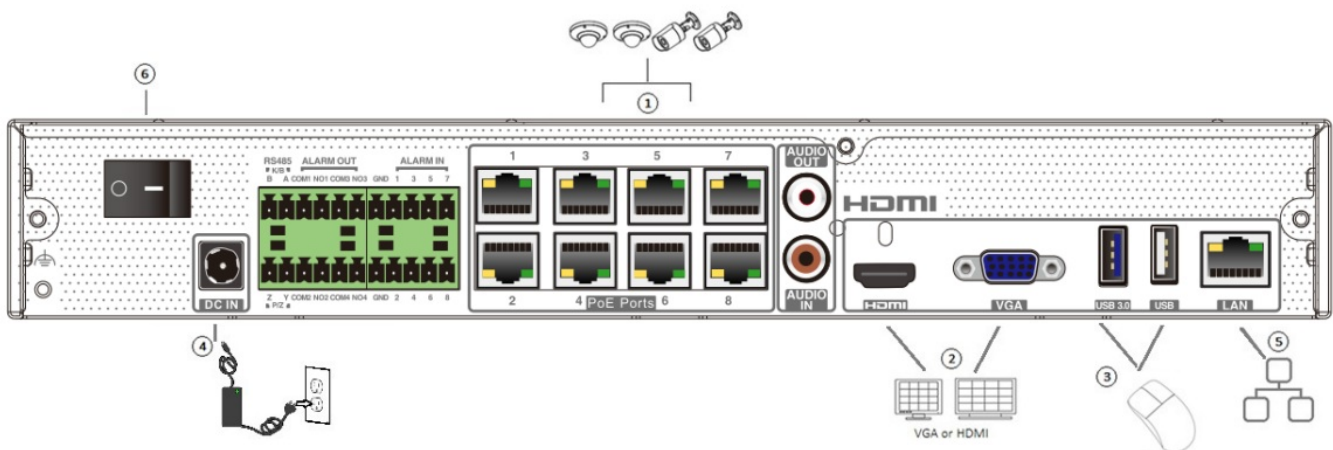


Figure 1 (8 channel unit shown)

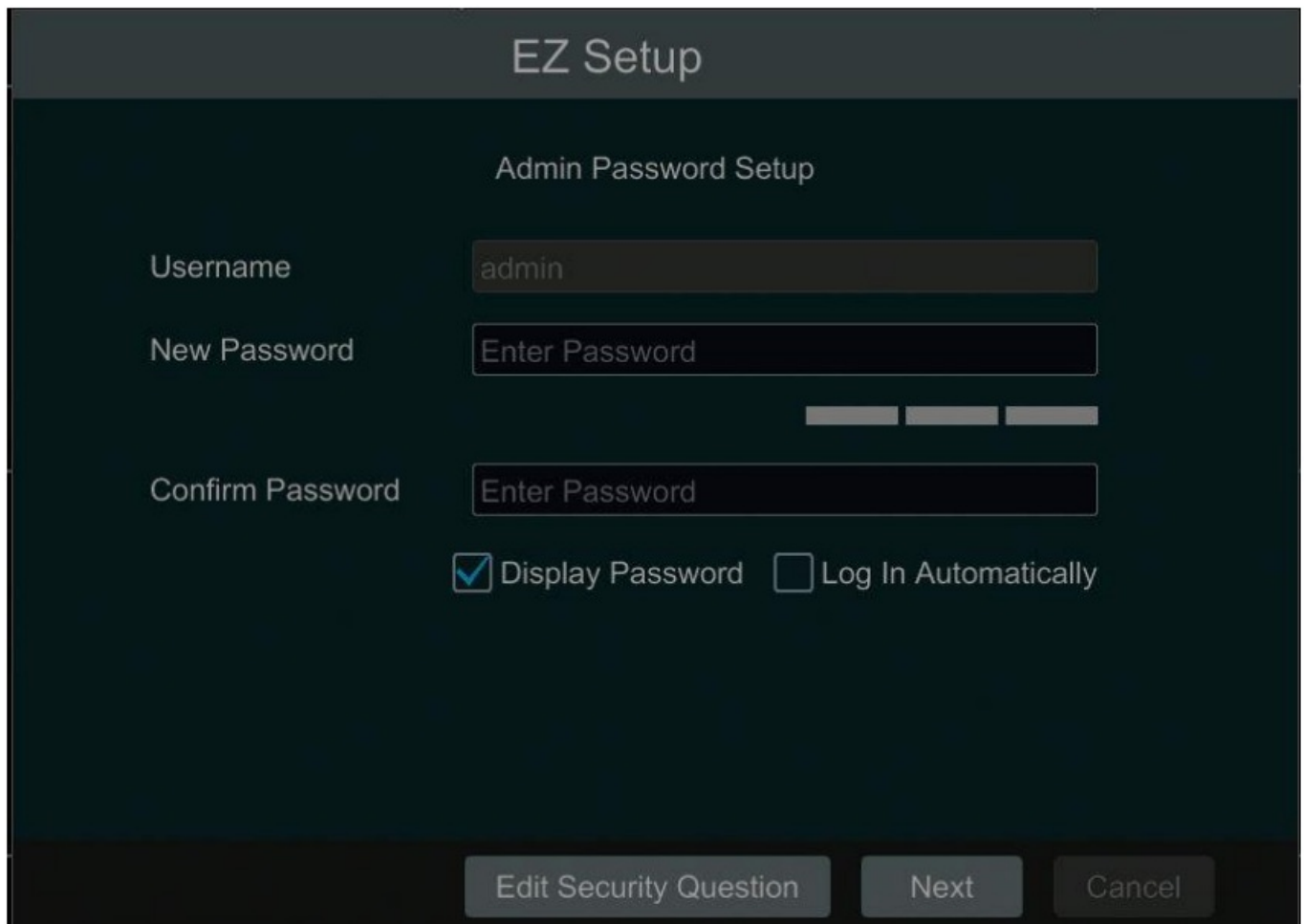
## Set Password and Security Questions

### Enter a password

- **Note:** You will be prompted to set a Password and security questions upon initial bootup. See Fig. 2-1
- The default login ID and administrator username is: admin
- The password strength indicator can be used as a reference. Re-enter the password to confirm. Remember this password.

#### Enter answers for two security questions.

- You can select which security questions to provide answers for. It is important that you remember the answers to these questions, or you will not be able to reset your password and will be locked out.
- **Note:** These questions must be answered in exact form when resetting the password and is case-sensitive.



The image shows a screenshot of the 'EZ Setup' interface, specifically the 'Admin Password Setup' section. The background is dark grey. At the top, 'EZ Setup' is written in a light grey font. Below it, 'Admin Password Setup' is centered in a slightly lighter grey font. There are three input fields: 'Username' with 'admin' entered, 'New Password' with 'Enter Password' and a password strength indicator (three bars, the first is full, the second is half, the third is empty), and 'Confirm Password' with 'Enter Password'. Below the input fields, there are two checkboxes: 'Display Password' (checked) and 'Log In Automatically' (unchecked). At the bottom, there are three buttons: 'Edit Security Question', 'Next', and 'Cancel'.

Figure 2

#### Update Firmware (if necessary)

- Speco will continuously make improvements, please check the website to ensure you are running the latest firmware version.

#### Check the firmware version on the recorder

- You can click Start→Settings→System→Information→Basic go to “About this machine” and click on “View”. You will then be able to see the firmware version number and build date.

- Now go to [www.specotech.com](http://www.specotech.com), then click on Support, then Recorder Software updates and follow the prompts until you find the model of your recorder.
- Then compare the release date of the firmware on the website with the recorder's firmware build date. See Figure 3-1 and 3-2.

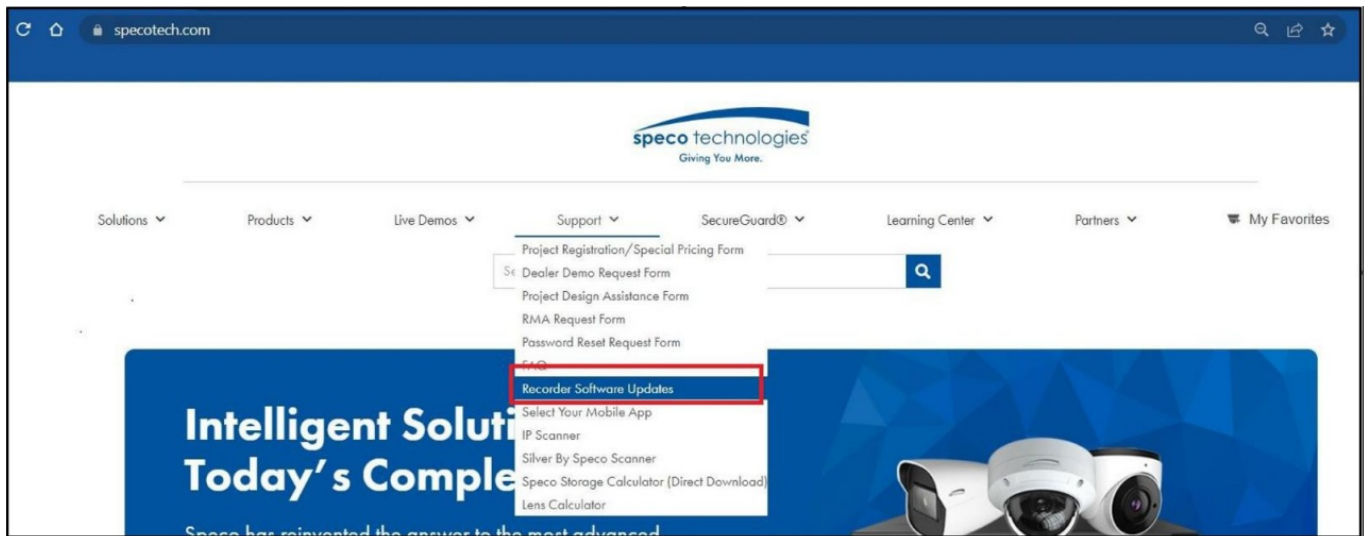


Figure 3-1

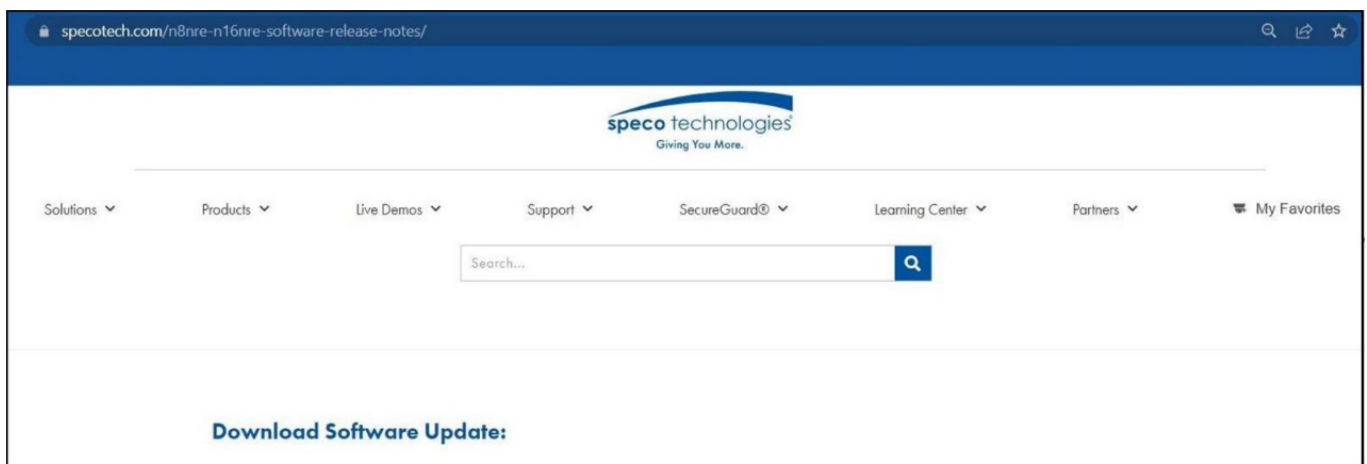


Figure 3-2

If the web has a more recent firmware version than your recorder's build date, then please update your device to the latest firmware.

## Updating Firmware

1. Copy the upgrade software into the USB storage device.
2. Insert the USB storage device into the USB interface of the NVR.
3. Click Start→Settings→System→Maintenance→Upgrade to go to the "Upgrade" interface. Select the USB device in the "Device Name" option and go to the path where the upgrade software exists. Select the upgrade software and then click "Upgrade". The system may automatically restart during upgrading. Please wait for a while and do not power off the NVR during upgrading.

After the firmware is updated, the unit will restart. You can now remove the USB disk from the unit.

## EZ Setup

After the system boots up, the EZ Setup wizard will be displayed. See Figure 4. If not, right-click, and select EZ Setup.

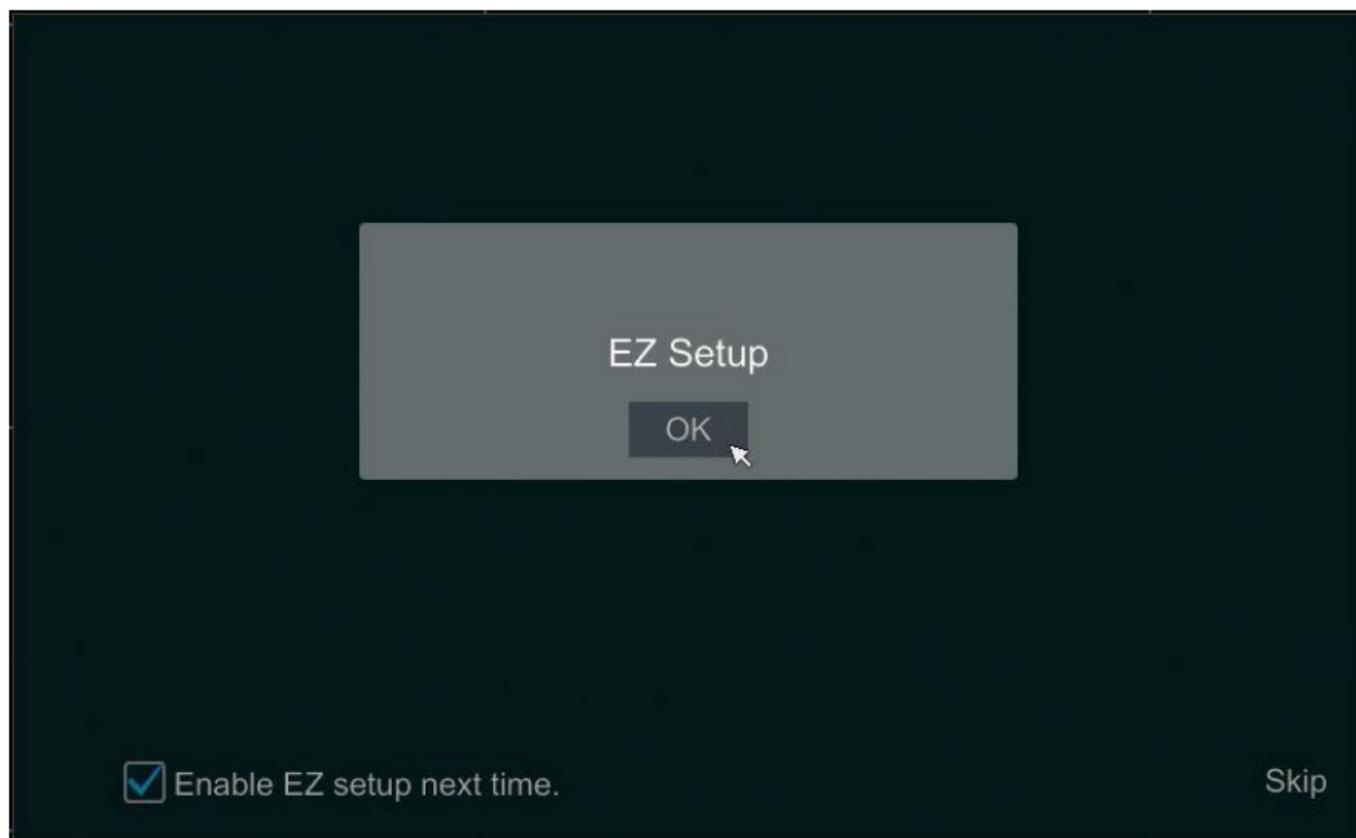


Figure 4

**Tip:** Check the “Enable EZ Setup next time” box to display the EZ Setup wizard every time the device is rebooted.

## General Settings – Date & Time

When booting up for the first time, the device will prompt you for time settings or go to Settings→System→Date and Time for Figure 4-1

- **System Time:** Set the time and date format of the system.
- **DST:** Toggle Daylight Saving Time On or Off
- **Time format:** Choose between 24-hour mode or 12-hour mode.
- **NTP:** Specify an NTP server to synchronize the time (optional).

The image shows a web-based configuration interface titled "EZ Setup". It contains several settings for time and date, each with a dropdown menu or a text input field. The settings are: Time Zone (GMT-05 New York, Toronto, Washington), System Time (05/08/2018 10:29:22), Date Format (Month/Day/Year), Time Format (24-Hour), DST (OFF), Synchronous (Manual), and NTP Server (time.windows.com). At the bottom right, there are three buttons: "Previous", "Next", and "Cancel".

Setting	Value
Time Zone	GMT-05 New York, Toronto, Washington
System Time	05/08/2018 10:29:22
Date Format	Month/Day/Year
Time Format	24-Hour
DST	OFF
Synchronous	Manual
NTP Server	time.windows.com

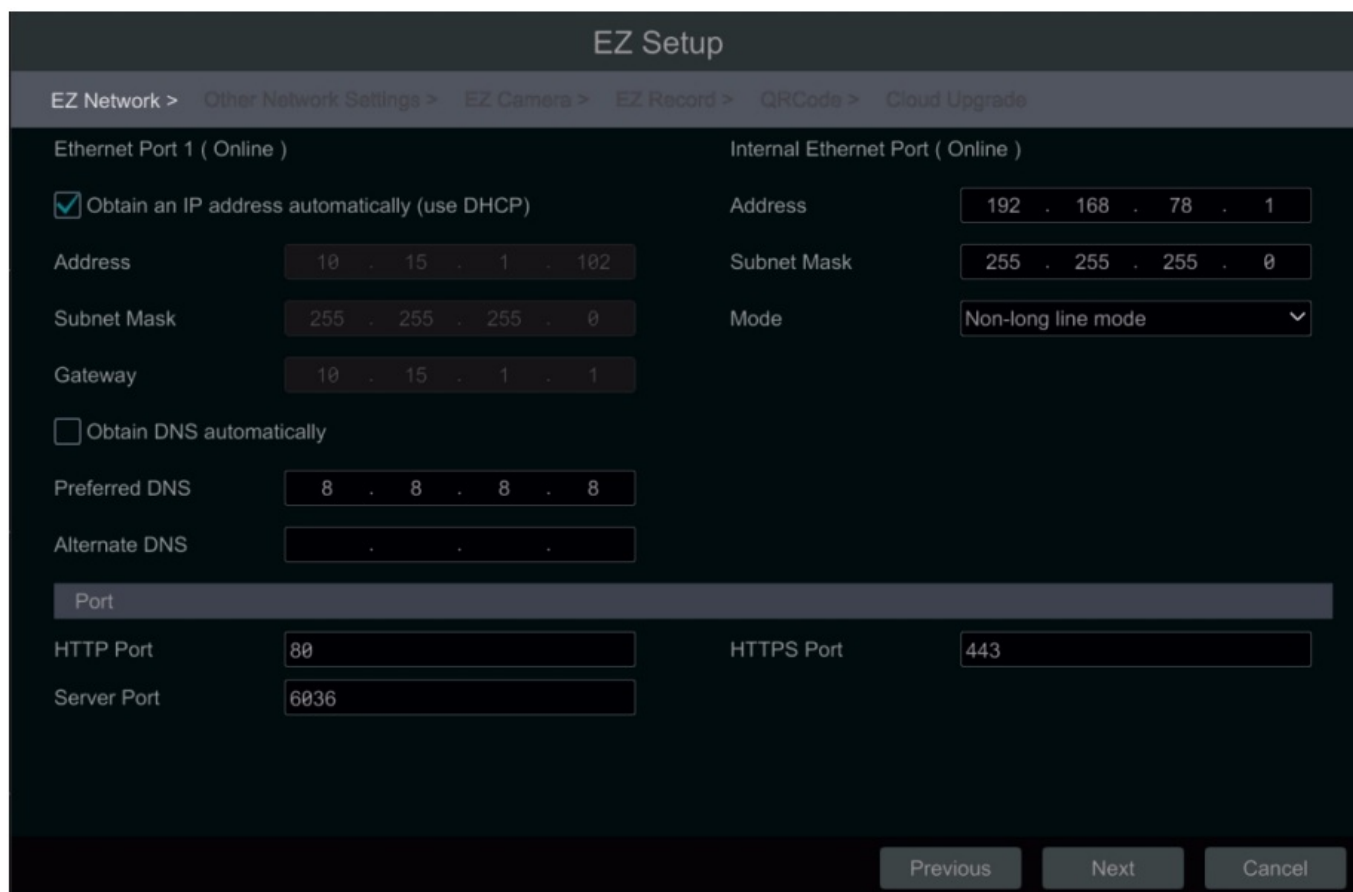
Figure 4-1

#### Disk Settings

Disk Settings. You can view the disk number, disk capacity of the NVR and serial number, and Read/Write status of the disk. Click "Format" to format the disk. Click "Next" to continue.

#### EZ Network Setup

- Next, set the network of the NVR. Go to Start → Settings → Network → TCP/IP. Input IP address, subnet mask, gateway, etc. If using DHCP, please enable DHCP in both the NVR and the router.
- Go to Start → Settings → Network → Port. Input HTTP port (the default value is 80), and server port (the default port is 6036).




The image shows a web-based configuration interface titled "EZ Setup". At the top, there is a navigation bar with links: "EZ Network >", "Other Network Settings >", "EZ Camera >", "EZ Record >", "QRCode >", and "Cloud Upgrade". The main content area is divided into two columns. The left column is for "Ethernet Port 1 ( Online )" and includes a checked checkbox for "Obtain an IP address automatically (use DHCP)". Below this are input fields for "Address" (10 . 15 . 1 . 102), "Subnet Mask" (255 . 255 . 255 . 0), and "Gateway" (10 . 15 . 1 . 1). There is also an unchecked checkbox for "Obtain DNS automatically", followed by "Preferred DNS" (8 . 8 . 8 . 8) and an empty "Alternate DNS" field. The right column is for "Internal Ethernet Port ( Online )" and includes input fields for "Address" (192 . 168 . 78 . 1), "Subnet Mask" (255 . 255 . 255 . 0), and a "Mode" dropdown menu set to "Non-long line mode". Below these columns is a section titled "Port" with input fields for "HTTP Port" (80), "HTTPS Port" (443), and "Server Port" (6036). At the bottom right, there are three buttons: "Previous", "Next", and "Cancel".

Figure 4-2

- If you use the NVR with the PoE network ports, the online state of the internal Ethernet port will be shown on the interface.

## UPnP Configuration

- By UPnP, you can access the NVR through the IE client which is in WAN via router without port mapping.
  - Hit next or Click Start→Settings→Network→UPnP to go to the interface as shown below.
  - Make sure the router supports the UPnP function and the UPnP is enabled in the router.
  - Set the NVR's IP address, subnet mask gateway, and so on corresponding to the router.
  - Check "Enable" in the interface as shown below and then click the "Apply" button.
- Click the "Refresh" button to refresh the UPnP status. If the UPnP status was still "Invalid UPnP" after refreshing it many times, the port number may be wrong. Please change the mapping type to "Manual" and then click  to modify the port until the UPnP status turns to "Valid UPnP". Refer to the following picture. You can view the external IP address of the NVR. Input the external IP address plus port in the address bar to access the NVR such as <http://183.17.254.19:81>.



**EZ Setup**

EZ Network > Other Network Settings > EZ Camera > EZ Record > QRCode > Cloud Upgrade

UPnP ☒ Enable

Map Type Auto Test

Port Type	External Port	External IP Address	Port	UPnP Status	Edit
HTTP Port	80		80	Not Ready	
HTTPS Port	443		443	Not Ready	
Server Port	6036		6036	Not Ready	
RTSP Port	554		554	Not Ready	

DDNS ☐ Enable

DDNS Type specoddns.net

Server Address Enter Address

Domain Name speco006625 .specoddns.net

Previous Next Cancel

Figure 4-3

## DDNS Settings

DDNS is used to control the dynamic IP address through the domain name. Speco Technologies provides free DDNS service with US-based servers. You can access the NVR easily if the DDNS is enabled and configured. Click Start→Settings→ Network→DDNS to go to the interface as shown below. The default DDNS type will be “specoddns.net”. The default domain name will be shown, you can use this for your domain name or input your own. If invalid or taken, please select another domain name. Click on test to check if ok. If so, you may now go to [your domain name].specoddns.net in the browser and access your recorder remotely.

DDNS ☒ Enable

DDNS Type specoddns.net

Server Address Enter Address

Domain Name speco000000.specoddns.net

Username Enter Username

Password Enter Password

Test

Figure 4-4

## EZ Camera Setup

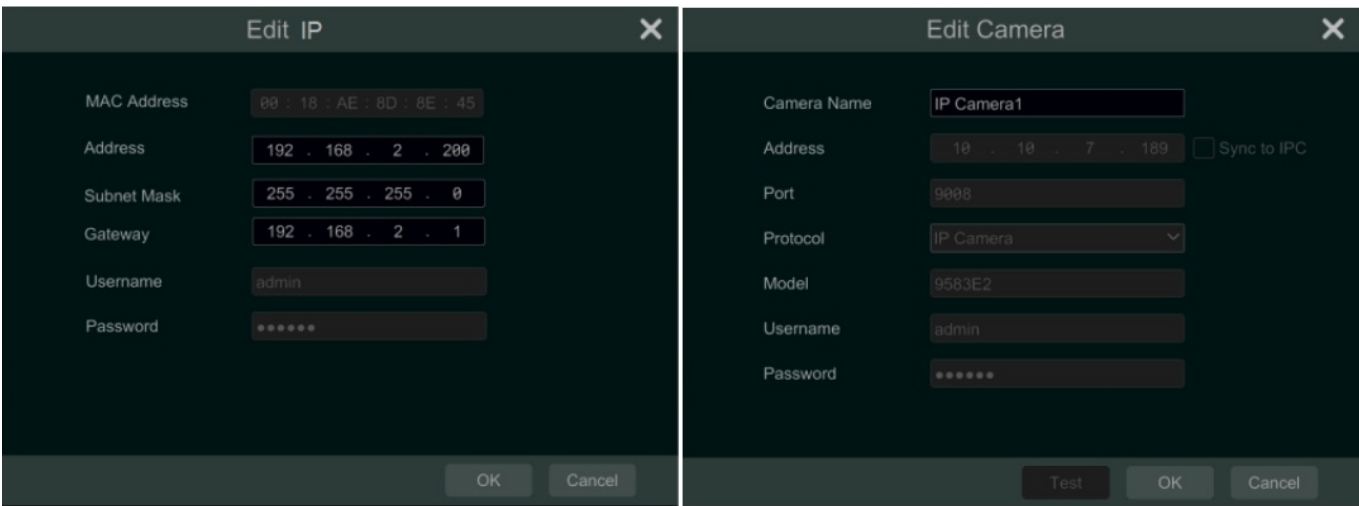
Add Camera. Click “Refresh” to refresh the list of online IP cameras that are in the same local network with NVR and then click to add the searched camera. Click “Add All” to add all the cameras in the list. Click to

delete the added camera. Click “Delete All” to delete all the added cameras. See Figure 4-5.



Figure 4-5

Click to edit an IP camera as shown on the below left. Input the new IP address, subnet mask, gateway, username, and password of the camera. You can check “Sync to IPC” to modify the IP address of the IP camera via different network segments to be in the same network segment as the NVR. Click “OK” to save the settings.



Click to edit the added camera as shown on the above right. Input the new camera name, IP address, port, username, and password of the camera. You can click “Test” to verify the information entered. Click “OK” to save the settings. You can change the IP camera name only when the added camera is online. Click “Next” to continue.

Record Settings

- **Record Settings.** Two record modes are available: auto and scheduled.
- **Auto Mode:** Select one auto mode in the interface as shown below and then click the “Next” button to save the settings. Click “Advanced” to self-define record mode.

The screenshot shows the 'EZ Setup' interface with the breadcrumb trail: EZ Network > Other Network Settings > EZ Camera > EZ Record > QRCode. The 'Mode' dropdown is set to 'Auto'. Below it, there are seven radio button options for different recording modes, each with a corresponding icon:
 

- ☐ Motion Record (Yellow running person icon)
- ☐ Sensor Record (Red bell icon)
- ☐ Motion Record+Sensor Record (Yellow running person + Red bell icon)
- ☐ Continuous Record+Motion Record (Red circle + Yellow running person icon)
- ☐ Continuous Record+Sensor Record (Red circle + Red bell icon)
- ☐ Continuous Record+Motion Record+Sensor Record (Red circle + Yellow running person + Red bell icon)
- ☒ Continuous Record+Motion Record+Sensor Record+Analytics Record (Red circle + Yellow running person + Red bell + Blue camera icon)

 An 'Advanced' button is located below the radio buttons. At the bottom right, there are 'Previous', 'Next', and 'Cancel' buttons.

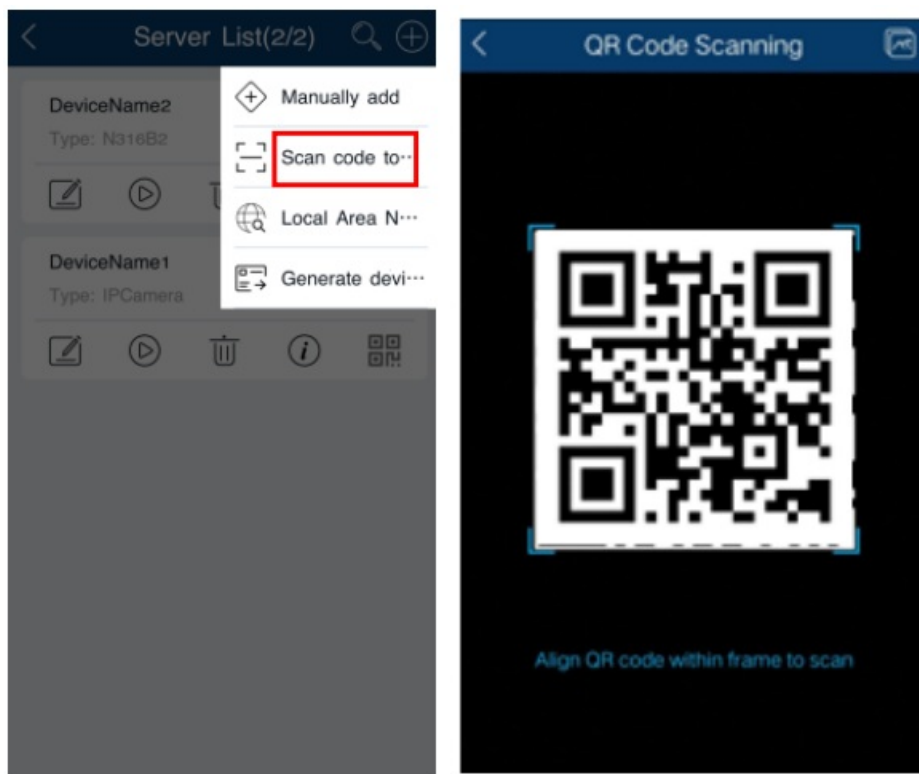
- **Scheduled:** Set the “Sensor Record”, “Motion Record” and “Schedule Record” of each camera. Click “OK” to save.

The screenshot shows the 'EZ Setup' interface with the breadcrumb trail: EZ Network > Other Network Settings > EZ Camera > Disk Settings > EZ Record > QRCode. The 'Mode' dropdown is set to 'Scheduled'. Below it is a table for configuring recording settings for each camera.

Camera Name	Sensor Record	Motion Record	Schedule Rec..	Analytics Record
o8b6m	<None>	<None>	<None>	<None>

## QR Code for Remote App Viewing

Enable the NAT function in the interface or set it in the network configuration after exiting the wizard (please refer to the manual for details). You can scan the QR Code through the Speco Blue App available for iOS and Android to view your cameras easily and securely.



## Web Browser Access

Click Start→Settings→Network→NAT to go to the interface for NAT configuration and check “Enable”. Click “Apply” to save the settings and make a note of the QR code number under the QR code. Via Internet Explorer, go to connect. speech. cloud, input the QR code number, your username, and password to log in.

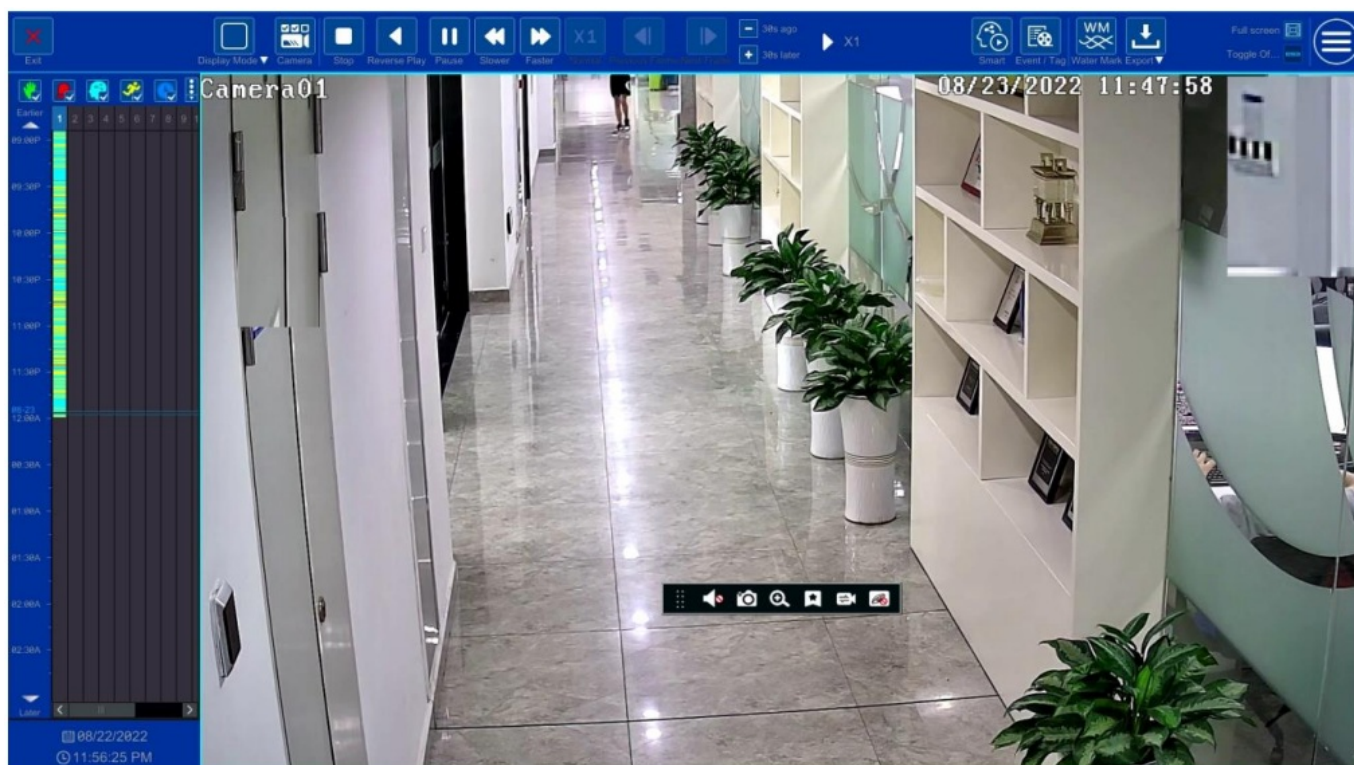


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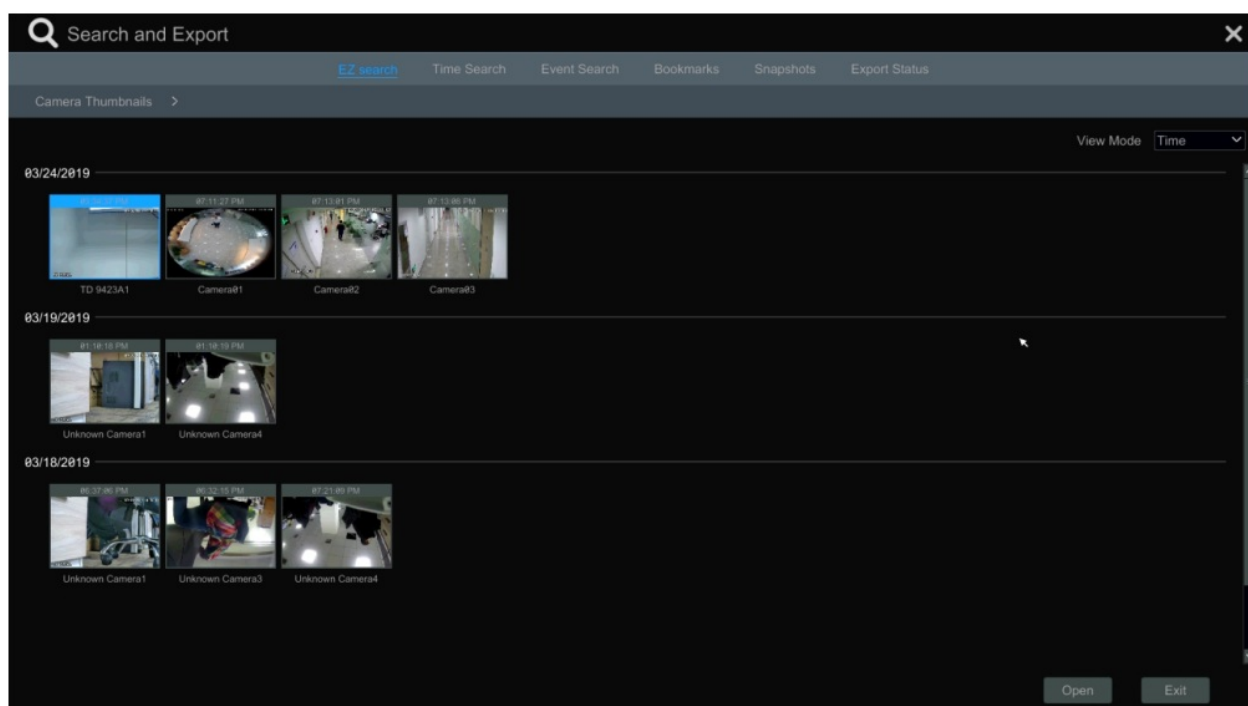
## Playback

Click Start→Playback to go to the playback interface as shown below (click on the toolbar at the bottom of the live preview interface to set the default playback time). On panel on the right will show you the channel number and their recorded data coded by color. The bar that runs across them represents the playback time being viewed. You can move this bar around. To export, highlight a section of the desired recording, click export, and follow the prompts. You can export single or multiple channels at the same time.




## EZ Search

- **EZ Search-** Quickly search an instance using video thumbnails
  - Click Start→Search and Export→EZ search. There are two view modes: by time and by camera. In the time view mode, a maximum of 64 camera thumbnails can be shown.
  - Select one camera in the interface and then click “Open” button.
  - Click the image box to play the record in the small playback box on the left side of the interface (the box which has image inside indicates that the record data exists).
  - Refer to the picture below. Drag the color blocks on the time scale to select the record data and then click “Backup” button to pop up the “Record Backup” window as shown below.
  - Select the device name, backup format and path and then click “Backup” button to start the backup.



- For detailed operation information, please refer to the user's manual.

## Documents / Resources

	<p><a href="#">speco technologies N16NRX Facial Recognition Recorder with Smart Analytics</a> [pdf] User Guide</p> <p>N16NRX, N8NRX, N16NRX Facial Recognition Recorder with Smart Analytics, N16NRX, Facial Recognition Recorder with Smart Analytics, Recognition Recorder with Smart Analytics, Recorder with Smart Analytics, Smart Analytics, Analytics</p>
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## References

- [User Manual](#)

[Manuals+.](#) [Privacy Policy](#)

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