

The Setup Wizard

EN

Welcome to the Setup Wizard! The Setup Wizard automatically runs the first time you start your NVR and will guide you through all the important settings you need to get up and working. Please be patient as it can take a moment for the wizard to appear after turning on your NVR.



During the wizard you will:

- Change Wi-Fi settings
- Choose a language
- Select a video standard
- Select a time zone
- Change display resolution
- Adjust the system time and date
- Select settings for Daylight Savings
- Format the hard drive
- Configure an email account for alert notifications
- Create a new security code for the NVR

 This quick start guide gives you the choice of configuring your NVR to run in “AP” mode or “Station” mode. “AP” is the default mode of operation and the recommended method of configuration. In this mode the included cameras communicate directly with the NVR with no configuration required, however a cable connection to your router is required for Internet access. In “Station” mode the NVR and cameras connect to your Wi-Fi network. This gives you the freedom of placing the NVR in different locations without being tethered to your router. Wi-Fi booster devices can also be used to extend the overall coverage allowing you to mount the cameras that were once outside the range of the NVR.

Introduction

1



Please follow the instructions in the “Getting to know your NVR (blue colour)” quick start guide before commencing the Setup Wizard.

Before proceeding to the Setup Wizard, you need to enable each checkbox for the equipment required. It’s recommended to have the NVR and cameras close by during setup before doing a permanent installation.

AP Mode - If you would like to setup your NVR in this mode follow the instructions on page 3. Please make sure the NVR is connected to your router using the provided Ethernet cable and that each camera is connected to the power adapter using the provided power splitter.

Station Mode - To setup in this mode follow the instructions on page 4. Please make sure the NVR is connected to your router using the provided Ethernet cable. There is an additional Ethernet cable to connect one of the cameras to your router. If you have additional Ethernet cables on hand, use these to connect each camera to your router. Make sure that each camera is connected to the power adapter using the provided power splitter.

Click “Proceed” to continue.

Wi-Fi Configuration - AP Mode

2

AP mode allows wireless communication with the provided cameras, however the NVR must be connected to your router using the provided Ethernet cable for an Internet connection and for remote access using the SwannView Link mobile app and for Windows.

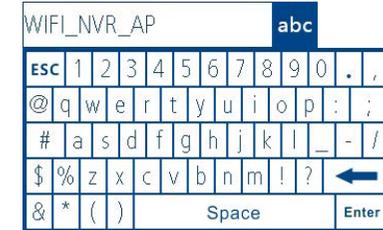
Swann Wizard

WiFi Mode: AP

SSID: WIFI_NVR_AP Hide SSID 1

Key: 1234efgh Show Key 2

Channel: 9 3



Click the dialogue box to access the on-screen keyboard. Click the “abc” button to change from lowercase to uppercase and click again to change to number input only.

1. Click “Hide SSID” to hide the presence of the NVR from computer and mobile devices over Wi-Fi. This is optional but it will increase the overall security of your NVR if it is enabled.
2. Create a key that you are familiar with (it can be a mixture of numbers and letters) or use the same key that you use to connect your computer and mobile devices to your Wi-Fi network. Click the “abc” button to change from lowercase to uppercase and click again to change to number input only. Uncheck “Show Key” if you want the key to be invisible.
3. Sometimes Wi-Fi products can conflict with each other or decrease the available coverage if they share the same channel number. This can

relate to your own Wi-Fi router or other Wi-Fi products within your vicinity. Check the settings for your Wi-Fi router to see what channel number is used and select a different channel number for your NVR. If the Wi-Fi coverage hasn't improved or has deteriorated, try selecting a different channel number.

4. Click the next button (triangle). Take note of the warning message that appears then click “OK”. This will take you to the next step in the Setup Wizard. All cameras will disconnect from the NVR momentarily. Don't worry this is normal. After a moment or two, all cameras will reconnect to the NVR.

Wi-Fi Configuration - Station Mode

3

Swann Wizard

WiFi Mode: Station 1

SSID: WIFI_NVR_AP 2 Scan

Key: ***** Show Key 3

Sync: Sync

WPS: WPS

Swann Wizard

| No. | SSID | WiFi Signal |
|-----|-----------|-------------|
| 1 | SwN-AP-BP | Great |

Refresh OK

1. WiFi Mode - Click this to change to “Station” mode. Take note of the warning message that appears then click “OK” to reboot the NVR. When the NVR has rebooted you will see the introduction page again. Enable each checkbox and click “Proceed” to continue.

2. SSID - The NVR and the camera(s) can now be configured to your Wi-Fi network. Click the “Scan” button. Your Wi-Fi router will be displayed (see above screenshot). You may also see other Wi-Fi routers within your vicinity. Select your Wi-Fi router then click “OK”.

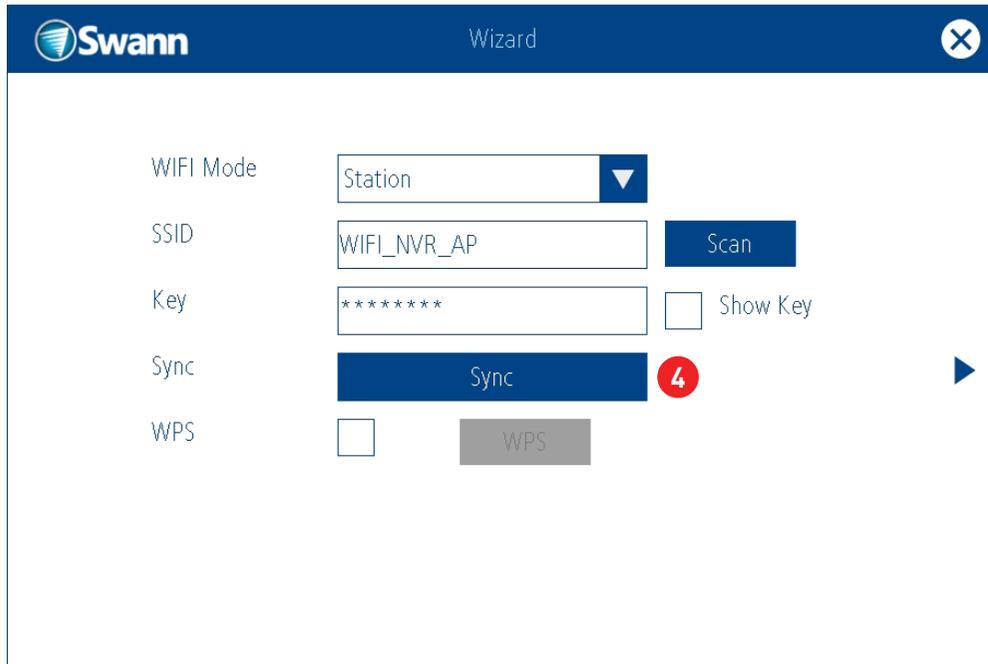
3. Key - For the “Key”, input the password for your Wi-Fi router. This will be the same key that you use to connect your computer and mobile de-

vices to your Wi-Fi network. Click “Show Key” to display your password so you confirm that you have input it correctly.

You’re now ready to sync the Wi-Fi settings to the camera(s). Continue and follow the instructions below.

Wi-Fi Configuration - Station Mode

4



Swann Wizard

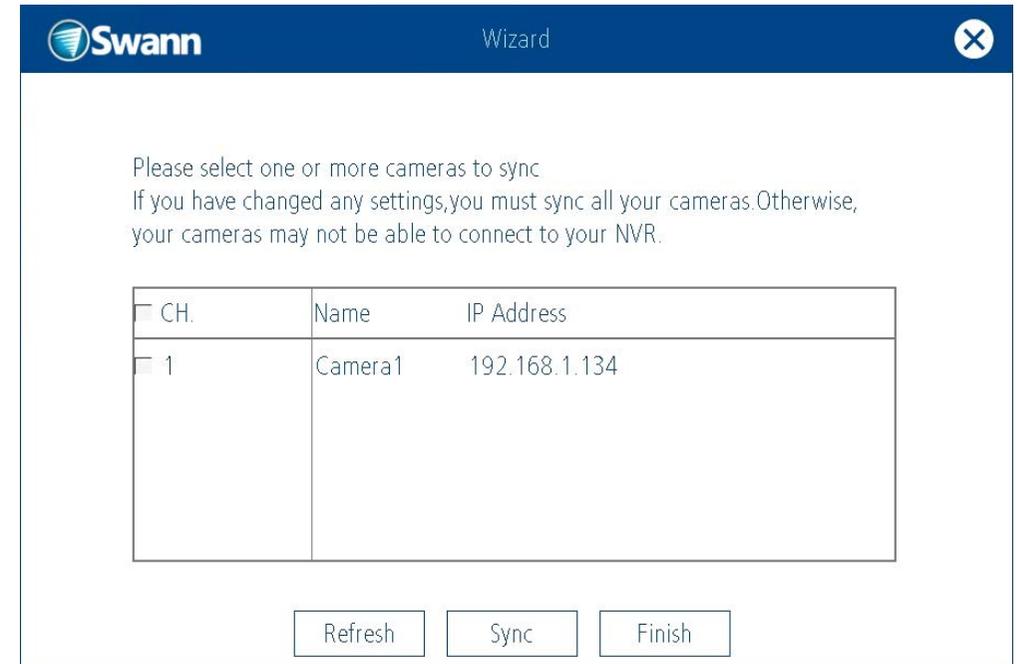
WIFI Mode: Station

SSID: WIFI_NVR_AP

Key: *****

Sync: Sync

WPS: WPS



Please select one or more cameras to sync.
If you have changed any settings, you must sync all your cameras. Otherwise, your cameras may not be able to connect to your NVR.

| CH. | Name | IP Address |
|----------------------------|---------|---------------|
| <input type="checkbox"/> 1 | Camera1 | 192.168.1.134 |

Refresh Sync Finish

4. Sync - Click the “Sync” button. The camera(s) connected to your router will be displayed (see above screenshot). Click the checkbox to select the camera(s), click the “Sync” button then click “OK”.

5. Disconnect the Ethernet cable from the LAN connection on the camera(s). The camera(s) will momentarily disconnect then reconnect. If you’re syncing a single camera at a time, connect the Ethernet cable to the LAN connection, click the “Refresh” button and repeat the above step until all cameras have been synced. When the last camera has been synced to the NVR click the “Finish” button.

6. If required, you can disconnect the Ethernet cable from the NVR so it

can communicate with your Wi-Fi network. A green Wi-Fi icon will appear at the top right indicating the NVR’s Wi-Fi signal strength.

7. Click the next button (triangle) to continue.



Due to the variances in Wi-Fi networking technology and the location that you’re in, the overall playback quality may change when running in “Station” mode.

General Configuration

5



The screenshot shows the Swann Wizard configuration window. The window title is "Swann Wizard". The settings are as follows:

| Setting | Value |
|----------------|-----------------------|
| Language | English |
| Video Standard | NTSC |
| Time Zone | (GMT+10:00) Melbourne |
| Resolution | 1920*1080 |

Below the settings, there is a QR code and the UID: M6MSVD7B49ZB81LDJPFJ.

1. Language - Choose a language you would like the system menu to be displayed in. In addition to the default English selection, both Spanish and French languages are available.

2. Video Standard - Select the correct video standard for your country. USA, Canada and some Latin American countries use NTSC. UK, Australia and New Zealand use PAL.

3. Time Zone - Select a time zone relevant to your region.

4. Resolution - Select a resolution that is suitable for your HDTV or Monitor. 1920 x 1080 resolution provides you with the best display quality.

UID & QR Code - This is a unique ID number for your NVR. You will use this later when configuring the mobile app and Windows software. You can access this anytime by clicking the "Setup Wizard" button on the Menu Bar.

7. Click the next button (triangle) to continue.

System Time & Daylight Savings

6

Swann Wizard

System Time: 28-08-2014

11:15:25

DST Setting

Swann DST Setting

Enable DST

Offset: 1 Hour

Mode: Week

Start Time: Mar 2nd Sun 02:00:00

End Time: Oct The last Sun 02:00:00

Default Cancel Apply

1. System Time - The system date and time should be set correctly according to the time zone that you have selected. If the date and time are incorrect, adjust accordingly. Please note, each time you boot up or restart the NVR, the correct date and time will be applied using NTP (Network Time Protocol) automatically.

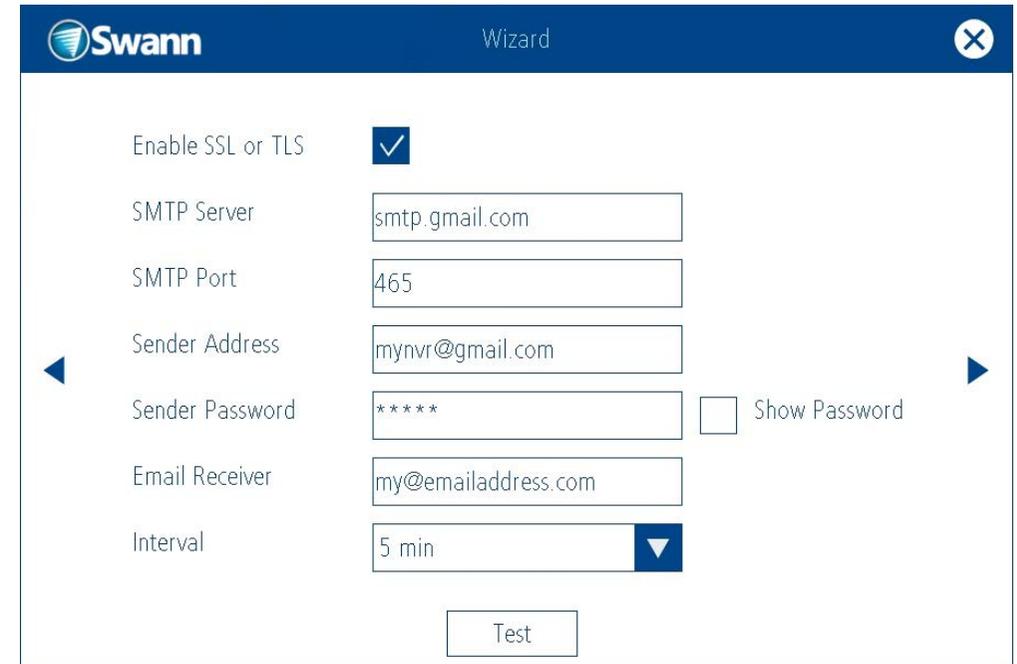
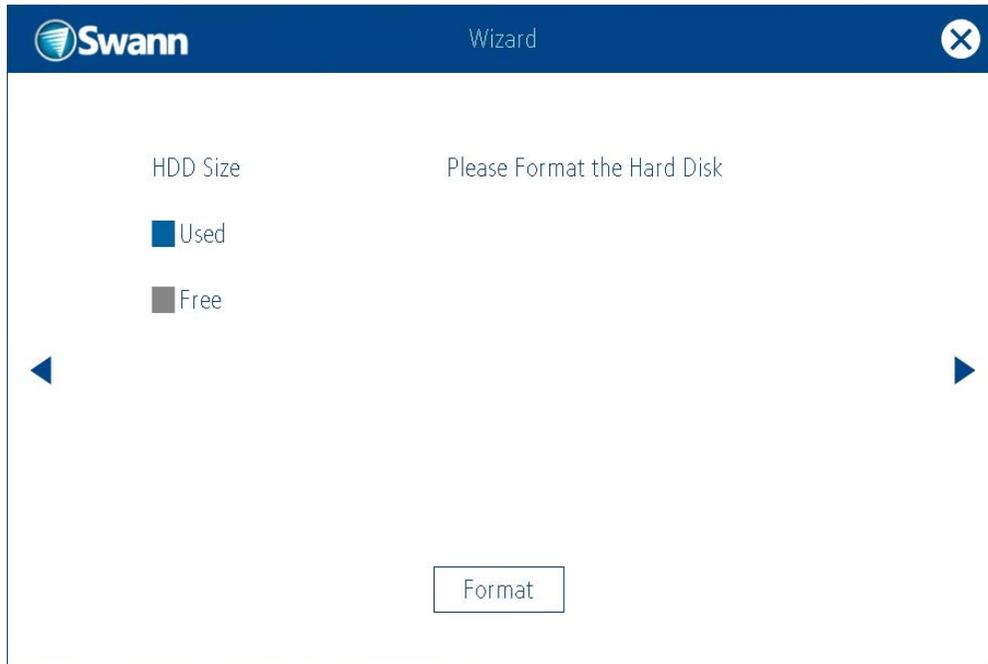
If Daylight Savings does not apply to your locale, you can skip this step.

2. DST Setting - Click this to adjust settings for Daylight Savings. This option allows you to configure your NVR to automatically adjust its time for Daylight Savings in your time zone. You can set when daylight saving time starts and ends, for example, 2 a.m. on the first Sunday of a particular month. Click the "Enable DST" checkbox then adjust the settings accordingly. Click "Apply" then "OK" to save changes made. This will take you back to the "System Time" screen.

3. Click the next button (triangle) to continue.

Hard Drive/Configure Your Email

7



If you see a “Connect the Hard Disk now” message, this indicates that the NVR hasn’t detected the hard drive installed. Disconnect the NVR from the power adapter and check that the power and data cable are firmly connected to the hard drive.

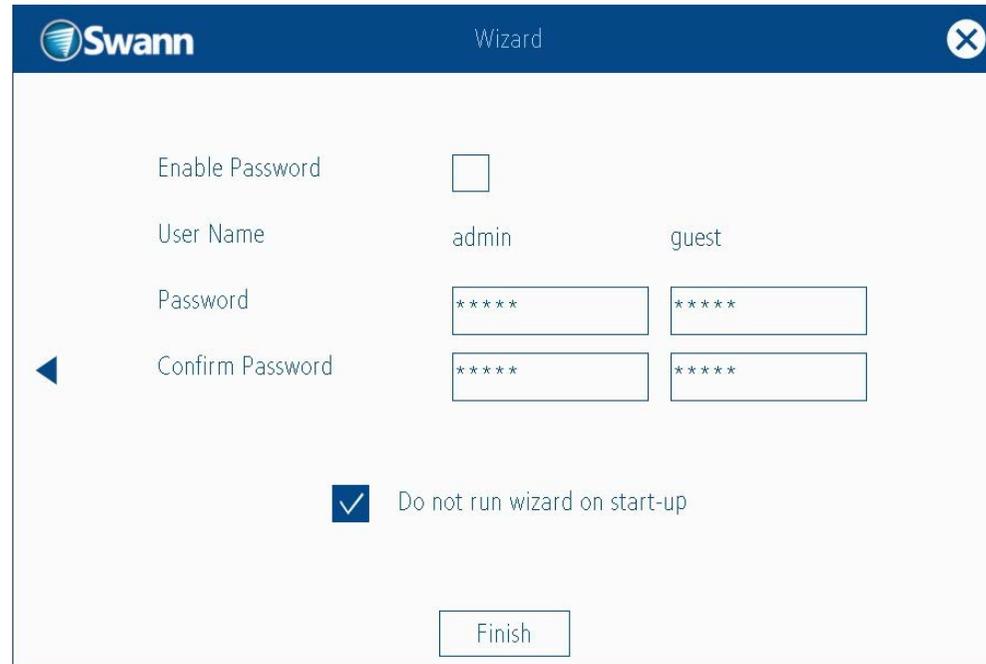
- 1. Format** - Click this to format the hard drive that has been installed. You will see a warning message on-screen indicating that all recordings on the hard drive will be deleted. Click “OK” to continue. The hard drive will now be formatted. Please be patient as it can take a moment depending on the size. On completion, the hard drive size will be displayed.
- 2.** Click the next button (triangle) to continue.

Configure an email account to receive email alerts when events occur. Go to (www.gmail.com) to create an account then input the details here.

- 1.** Populate each field as shown in the above screenshot (the email addresses shown in the above screenshot are examples only, don’t use these). Click “Show Password” to display the password.
- 2.** Click “Test” to verify that the information is correct then click “OK”. If you receive an error message, check that you have input your email address and password correctly and check your cables and connections.
- 3.** Click the next button (triangle) to continue.

Configure Security Code

8



The screenshot shows the Swann Wizard configuration interface. At the top, there is a blue header with the Swann logo and the word "Wizard" next to a close button. Below the header, the configuration options are as follows:

- Enable Password:** An unchecked checkbox.
- User Name:** Two input fields containing "admin" and "guest".
- Password:** Two input fields, each containing six asterisks (*****).
- Confirm Password:** Two input fields, each containing six asterisks (*****).
- Do not run wizard on start-up:** A checked checkbox.
- Finish:** A button at the bottom center.

1. This bit is really easy. You just have to give your NVR a new security code (recommended) or you can use the default code which is "12345". You can change the security code for both "admin" and "guest". The guest login can be used to provide access to your NVR using the SwannView Link Windows software without the ability to change settings or save video recordings.

2. Select "Enable Password" if you would like an extra layer of authentication on your NVR. Each time you access the main menu, you will be prompted for your NVR's security code. Enter a new security code then enter it again to confirm.

3. Click "Do not run wizard on start-up" to disable the Setup Wizard when you start your NVR and click "Finish" to complete the Setup Wizard.

On the other side of this quick start guide is an explanation of Live View and the controls available as well as instructions for the various functions in the menu.

Live View Mode

Live View is the default mode for the NVR. Each camera connected will be displayed on-screen. You can check the status or operation of your NVR and cameras using the status icons and Menu Bar on the Live View screen. Right-click the mouse to access the Menu Bar.

Time & Date



Status Icons

Click and hold a camera to move it to a different Live View screen.



Camera Name

Double-click a camera to view full screen. Double-click again to return.



Menu Bar



Live View Icons & Controls

Menu Bar

1. Menu - Opens the main menu.

2. Channel - Opens the device list which displays the cameras that are currently configured, the IP address and status for each camera as well as the ability to assign a different channel number or to disconnect a camera. Please note, when assigning a different channel number, each camera must have a unique number, they cannot share a channel number.



3. Search - Click this to search and playback videos located on the NVR's hard drive. You can search for one or more cameras, the type of event that has occurred and a particular time and date.

4. Audio - Click this to enable or disable live audio playback.

5. Shutdown - Click this to access the shutdown menu (see below).

Accessing the shutdown menu gives you the option of locking your NVR, shutting down your NVR or restarting your NVR. Please note, the "Enable Password" option in the Setup Wizard must be enabled for the locking option to work.



When you're in the device list (camera icon), if you need to disconnect a camera, click the drop-down menu and move the mouse pointer to this position as demonstrated in this screenshot.

Status Icons



The motion icon indicates that the NVR is detecting motion from the camera.



This indicates that the camera is currently recording. Whether it was scheduled, initiated manually or triggered by motion, the icon will be the same.



The audio icon indicates that the camera is selected for live audio.



This icon indicates that the camera is connected via Ethernet cable.



This Wi-Fi icon indicates that the camera is communicating directly with the NVR wirelessly.



This Wi-Fi icon indicates that the NVR is connected to your wireless network.



This Wi-Fi icon indicates that the NVR is disconnected from your wireless network.

VIDEO LOSS

This indicates that the channel displaying this has lost the feed from its camera.

Menu - Recording: Encode

The encode function allows you to change the resolution and bitrate for each camera connected. You can change settings for both “Main Stream” encoding and “Sub stream” encoding if you are experiencing difficulties viewing footage on your mobile device.



The screenshot shows the 'Recording' window with the 'Encode' tab selected. The settings are as follows:

| Setting | Value |
|---------------------|--------------------------|
| Camera No. | Channel1 |
| Camera Name | Camera1 |
| Encoding Parameters | Main Stream |
| Record Audio | <input type="checkbox"/> |
| Frame Rate(fps) | 15 |
| Max. BitRate(Kbps) | 1024 |
| Resolution | 720P |

Buttons at the bottom: Default, Copy To, Apply.

Camera No. - Select a camera that you would like to edit.

Camera Name - Click to change the name of the camera. It's recommended to use the name of the camera's location.

Encoding Parameters - The NVR continually encodes two video streams. "Main Stream" is what you see on the TV and "Sub stream" is what you see on your mobile device or if you are viewing it on your computer remotely. Select which video stream that you would like to change.

Record Audio - Click the checkbox to enable audio recording.

Frame Rate(fps) - The number of frames per second (fps) that the NVR will record. The default value is 15fps for NTSC and PAL.

Max. BitRate(Kbps) - The amount of data that the NVR will use to record video. The higher the bitrate, the more space each recording will take.

Resolution - The resolution for both "Main Stream" and "Sub stream" is fixed and cannot be changed.

Use the "Copy To" function to apply these settings to the other cameras. Use the "Default" function to revert back to the default settings.

Don't forget to click "Apply" to save settings.

Menu - Recording: Schedule

By default, a motion detection schedule has been enabled for each camera connected. You can change the schedule according to your needs. The schedule is presented as a 24/7 grid. Green represents motion recording, blue represents normal recording.

| Hour | 00 | 06 | 12 | 18 | 23 |
|------|-------|-------|-------|-------|-------|
| Sun | Green | Green | Green | Green | Green |
| Mon | Green | Green | Green | Green | Green |
| Tue | Green | Green | Green | Green | Green |
| Wed | Green | Green | Green | Green | Green |
| Thu | Green | Green | Green | Green | Green |
| Fri | Green | Green | Green | Green | Green |
| Sat | Green | Green | Green | Green | Green |

Legend: Normal Motion None

Buttons: Default, Copy To, Apply

Click a square in the recording schedule to change the recording mode.



Camera No. - Select a camera that you would like to edit.

Camera Name - Click to change the name of the camera. It's recommended to use the name of the camera's location.

Normal - The NVR will constantly record for any period where "Normal" is selected. You won't miss anything, but constant recording will fill the hard drive in a shorter period of time.

Motion - This is enabled by default. The NVR will only record footage from the camera(s) that detect motion.

None - As the name suggests the NVR will not record anything.

Use the "Copy To" function to apply these settings to the other cameras.

Use the "Default" function to revert back to the default settings.

Don't forget to click "Apply" to save settings.

Menu - Search

Swann Search

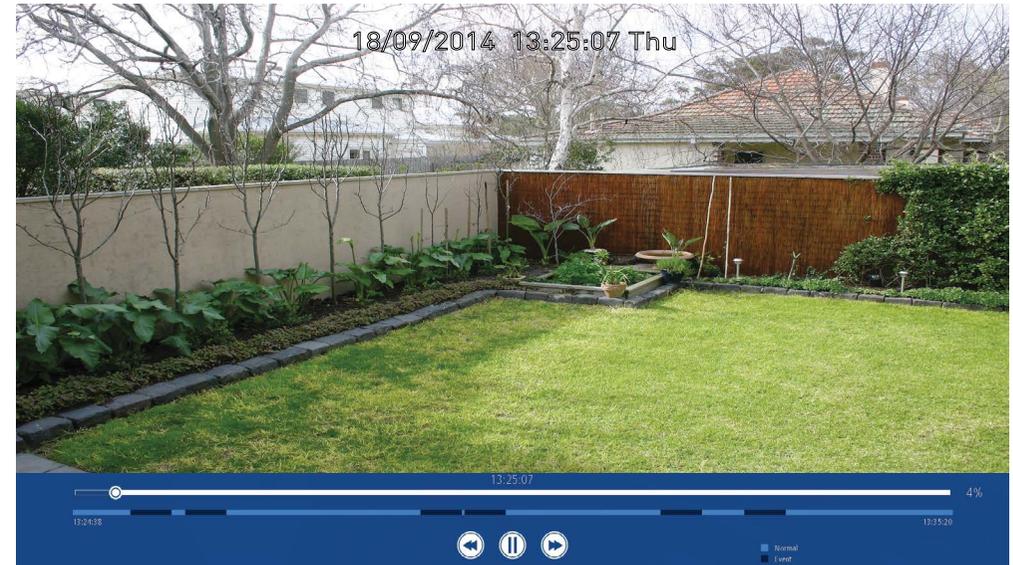
Channel All 1 2 3 4

Status 1

Video Type All 2

Start Time 18-09-2014 3

Play Search



The playback interface is quite similar to a computer's media player.

1. Select one or more cameras that you would like to playback or search for.
 2. Select the video type that you would like to playback or search for. The options are "All", "Manual", "Schedule" and "Motion".
 3. Set your start date & time and your end date & time.
- Play** - Click this to playback all files in sequence that fit your search criteria.
- Search** - Click this to display a list of video files that fit your search criteria. This gives you more flexibility on which file to select for playback. Click the "Play" button to start, select one or more cameras for

synchronous playback (this is optional) and click "OK" to start playing. The playback interface has your standard rewind, play and fast forward controls. You can use the mouse to select any part of the timeline (white line) for quicker navigation. You will see along the timeline sections that have different colours. The light blue sections represent "Normal" recording and the dark blue sections represent "Motion" recording. If you're viewing multiple cameras at once, double-click one of the cameras to view full-screen. Double-click again to return.

Menu - Motion

Swann Motion

Channel Channel 1 1

Enable 2

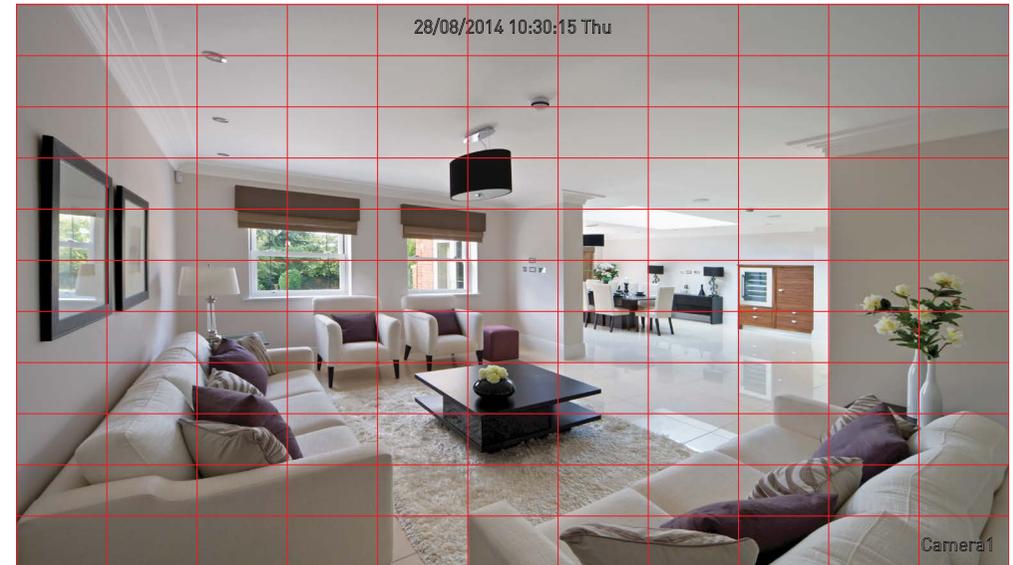
Motion Detection Set 3

Sensitivity Set 4

Schedule Set 5

Send Email 6

Default Copy To Apply



By default the camera's entire view is enabled for motion detection.

1. Select a camera that you would like to edit.
2. This is enabled by default. Disable the checkbox if you would like to disable motion detection for the camera that you have selected.
3. Click this to change the motion detection area. You will see a grid of red boxes (see screenshot top-right). The outlined boxes mark the area that is sensitive to motion. The areas without the boxes are not sensitive to motion. Using the mouse, tap and drag to select the area you want to select or de-select.
4. Click this to edit the motion detection sensitivity level. It can be set to a value between 0 and 50. The lower the number, the more sensitive the

motion detection will be. There are four time periods which you can define different motion sensitivity values for. You can change what time(s) each period starts and ends to best match your conditions.

5. Click this to edit the motion detection schedule. By default motion detection is enabled for 24/7 operation. If you need to change the schedule, we recommend using the "Recording: Schedule" function (see page 13).

6. Enable this to send an email whenever the NVR detects motion. Use the "Copy To" function to apply these settings to the other cameras. Use the "Default" function to revert back to the default settings. Don't forget to click "Apply" to save settings.

Menu - Network: General

The screenshot shows the 'Network' configuration window for a Swann device. It has three tabs: 'General' (selected), 'Advanced', and 'WIFI Setting'. The 'General' tab contains the following settings:

- Network Access: Cable Link (dropdown menu)
- Access Type: DHCP (dropdown menu)
- IP Address: 192.168.1.32 (text input)
- Subnet Mask: 255.255.255.0 (text input)
- Default Gateway: 192.168.1.254 (text input)
- Auto DNS: (checkbox)
- Static DNS: (checkbox)
- Preferred DNS Server: 192.168.1.254 (text input)

At the bottom of the window, there are two buttons: 'Default' and 'Apply'.

Most of these networking settings are not required when using SwannLink P2P for remote access. If you have specific networking requirements, the NVR does give you the ability to change the default settings.

Network Access - This controls how the NVR is connected to your network. If you're using the Ethernet cable for connection, "Cable Link" will be selected. If you're running "Station" mode and the NVR is communicating with your Wi-Fi network wirelessly, "WIFI Link" will be selected.

Access Type - You can select a "DHCP" or "Static" network.

IP Address - If a "Static" network has been selected, an IP address can be manually defined.

Subnet Mask - If a "Static" network has been selected, a subnet mask can be manually defined.

Default Gateway - A gateway provides Internet access to the NVR.

Auto DNS/Static DNS - Do not change this unless you have specific networking requirements.

Preferred DNS Server - Do not change this unless you have specific networking requirements.

Use the "Default" function to revert back to the default settings.

Don't forget to click "Apply" to save settings.

Menu - Network: Advanced

The screenshot shows the Swann Network Advanced settings interface. It features three tabs: General, Advanced, and WIFI Setting. The Advanced tab is active, displaying the following settings:

| Setting | Value/Action |
|----------------|-------------------------------------|
| Email Settings | Set |
| Server Port | 9000 |
| HTTP Port | 85 |
| UPNP enable | <input checked="" type="checkbox"/> |

At the bottom of the page, there are two buttons: "Default" and "Apply".

Most of these networking settings are not required when using SwannLink P2P for remote access. If you have specific networking requirements, the NVR does give you the ability to change the default settings.

Email Settings - The email configuration has been covered in the quick start guide, however if you need to change settings in the future, you can do it through here. The UID of the NVR is also displayed here.

Server Port - This is the port that the NVR will use to send information through.

HTTP Port - This is the port through which you will be able to log in to the NVR.

UPNP Enable - This is enabled by default.

Use the "Default" function to revert back to the default settings.

Don't forget to click "Apply" to save settings.

Menu - System: Maintenance/System Info

Swann System

Maintenance System Information

Enable auto reboot

Auto reboot at: Every Sunday

02:00:00

Firmware Upgrade Upgrade

Default Settings Restore

Default Apply

Swann System

Maintenance System Information

| | |
|-------------|------------------------|
| Device Name | NVR |
| Model | Tiny_WIFI |
| Build No. | build 1409160 GA 1.9 |
| Hw No. | H2MB09 |
| Cfg version | v2.0.0.0 |
| Detail | NVR6004444000000200000 |

Enable auto reboot - To maintain the operational integrity of the NVR, it is recommended that it be rebooted periodically. Select a day and time when it's unlikely there'll be any activity for the NVR to record.

Firmware Upgrade - Instructs the NVR to update its firmware. You'll only need to use this option if instructed to do so by Swann Technical Support.

Default Settings - Click this to load the factory default settings. You can select to restore all settings or certain functions only.

Use the "Default" function to revert back to the default settings.

Don't forget to click "Apply" to save settings.

If you're looking at the "System Information" screen, you've probably been directed to do so by Swann Technical Support. In the event that you require assistance, the various model and build numbers help us track down any known issues, or catalogue new issues as they come to light. It also helps us figure out if you're running the most recent firmware and whether you'd benefit from an upgrade.