

PRO-SERIES HD

Professional HD Security System



Important Information

FCC Verification

This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna
- · Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

These devices comply with part 15 of the FCC Rules. Operation is subject to the following two conditions:

· These devices may not cause harmful interference

• These devices must accept any interference received, including interference that may cause undesired operation

Important Notice: All jurisdictions have specific laws and regulations relating to the use of cameras. Before using any camera for any purpose, it is the buyer's responsibility to be aware of all applicable laws and regulations that prohibit or limit the use of cameras and to comply with the applicable laws and regulations.

FCC Regulation (for USA): Prohibition against eavesdropping

Except for the operations of law enforcement officers conducted under lawful authority, no person shall use, either directly or indirectly, a device operated pursuant to the provisions of this Part for the purpose of overhearing or recording the private conversations of others unless such use is authorized by all of the parties engaging in the conversation.

Warning: Changes or modifications made to this device not approved expressly by the party responsible for compliance could void the user's authority to operate the equipment.

Important Safety Instructions

- Do not operate if wires and terminals are exposed
- Do not cover vents on the side of your device and allow adequate space for ventilation
- Only use the power adapter supplied with your DVR

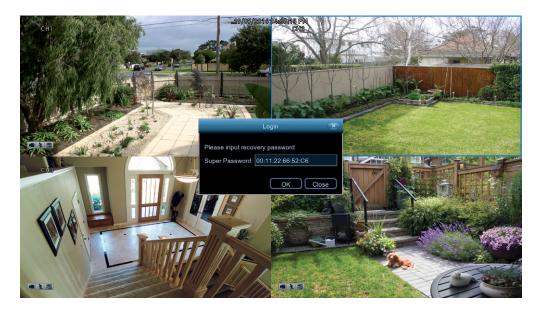
About this Instruction Manual

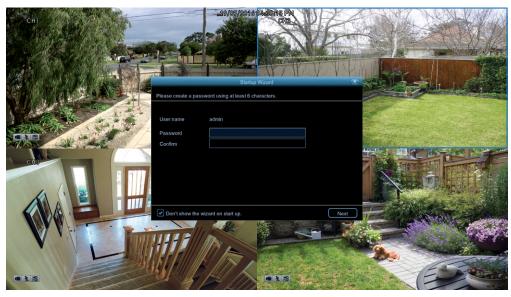
This instruction manual is written for the DVR-1590, DVR-1600 and DVR-4575 series and was accurate at the time it was completed. However, because of our on-going efforts to constantly improve our products, additional features and functions may have been added since that time.

Important Password Information

This DVR does <u>not</u> have a default password. A password is created during the Startup Wizard. If password protection has been enabled and you have forgotten your password, your DVR's MAC address can be used to create a new password (see page 3 - <u>Password Recovery</u>).

Password Recovery





Forgotten your password? Please do the following:

1. Right-click the mouse on the Live View screen to display the Menu Bar then click "Main Menu".

2. At the password login screen click "Forgot Password".

3. After a short moment, you will receive a password reset request email containing your DVR's MAC address (if it's not in your inbox, check your junk or spam folder).

4. Input the MAC address including the semicolons (see left example) then click "OK".

5. A message will appear on-screen stating that your password has been reset. Click "OK" to continue.

6. Enter a new password (see bottom left example). The password has to be a minimum of six characters and can contain a mixture of numbers and letters. Use a password that you are familiar with, but is not easily known to others.

7. Write down your password in the space provided below for safe keeping.

8. Complete the Startup Wizard as normal (the settings that you previously selected in the Startup Wizard will remain unchanged).

Don't forget to write down your password: _

I haven't created an email for my DVR, what can I do? Don't worry, we're here to help. Please contact Swann Helpdesk & Technical Support (phone numbers located on page 79) for assistance.

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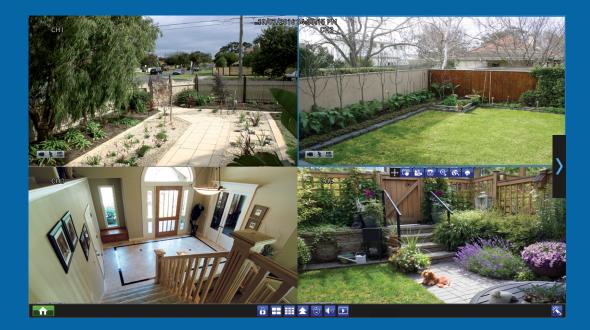
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Live View

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





Live View Mode (4 & 8 channel model)

Live View mode is the default display for your DVR. Each camera connected will be displayed (multiple view modes available). You can check the operation of your DVR by using the status icons on the Live View screen. The date and time as well as the name for each camera is also displayed.



Live View Icons & Controls (4 & 8 channel model)

Menu Bar

- **1.** Click this to open the Main Menu.
- **2.** Lock your DVR to prevent access to the Main Menu when "Menu Timeouts" is turned off.
- 3. Four camera view.
- **4.** Nine camera view (this will display eight cameras on the 8 channel model).
- **5.** Six camera and eight camera view (8 channel model only).





6. Click this to repeatedly cycle through each video channel full screen. Each video channel will be displayed for 5 seconds.

- **7.** Click this to change the volume or mute the audio (click the speaker icon to mute).
- **8.** Click this to access the Search menu. From here you can play previously recorded videos.

Click a camera to access the Camera Toolbar.

This provides access to functions such as in-

stant playback and to change image settings.

To ensure the integrity of your recordings,

enter your password and select "Shutdown"

Camera/Group: When viewing a single

camera or a group of cameras, move the

mouse to the far left or right to reveal the

camera/group button. You can cycle through

each camera or group of cameras.

when powering off your DVR.

9. Click this to enter the Startup Wizard.

Status Icons



This icon indicates that the camera is being recorded (either manually or by motion).



This icon indicates that your DVR is detecting motion from the camera.



This icon indicates that your DVR is recording at 720p (1280 x 720) resolution.



This icon indicates that your DVR is recording at 1080l (960 x 1080) resolution.



This icon indicates that your DVR is recording at 1080p (1920 x 1080) resolution.



This icon indicates that your DVR is recording at 3 megapixel (1920 x 1536) resolution.



This icon indicates that your PIR camera has detected one or more warm objects.

NO HDD

This icon indicates that your DVR does not have a hard drive or it fails to detect the drive that is installed.

VIDEO LOSS

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

Click for contents

Live View Mode (16 channel model)

Live View mode is the default display for your DVR. Each camera connected will be displayed (multiple view modes available). You can check the operation of your DVR by using the status icons on the Live View screen. The date and time as well as the name for each camera is also displayed.



Live View Icons & Controls (16 channel model)

Menu Bar

1. Click this to open the Main Menu.

2. Manually lock your DVR to prevent access to the Main Menu when "Menu Timeouts" is turned off.

- 3. Four camera view.
- 4. Nine camera view.
- 5. Twelve camera view.
- 6. Sixteen camera view.





7. Select from a variety of different camera layouts available.

8. Click this to repeatedly cycle through each video channel full screen. Each video channel will be displayed for 5 seconds.

9. Click this to change the volume or mute the audio (click the speaker icon to mute).

10. Click this to enter playback mode.

11. Click this to enter the Startup Wizard.

The Camera Toolbar provides quick access to video playback, manual capture, zoom, PTZ and the ability to change image settings.

To ensure the integrity of your recordings, enter your password and select "Shutdown" when powering off your DVR.

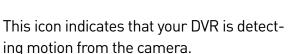
Camera/Group: In single or four camera view, move the mouse to the far left or right to reveal the camera/group button. You can cycle through each camera or group of cameras to view.

Status Icons



This icon indicates that the camera is being recorded (either manually or triggered by motion).







This icon indicates that your DVR is recording at 720p (1280 x 720) resolution.



This icon indicates that your DVR is recording at 1080l (960 x 1080) resolution.



This icon indicates that your DVR is recording at 1080p (1920 x 1080) resolution.



This icon indicates that your DVR is recording at 3 megapixel (1920 x 1536) resolution.



This icon indicates that your PIR camera has detected one or more warm objects.

NO HDD

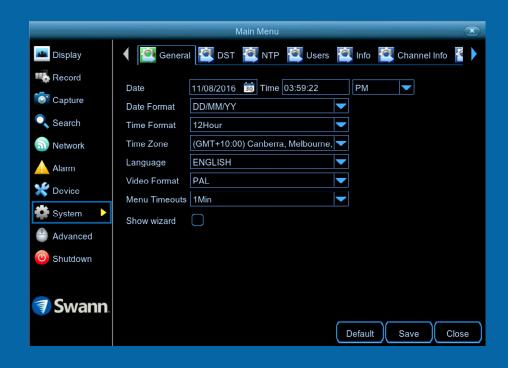
VIDEO LOSS

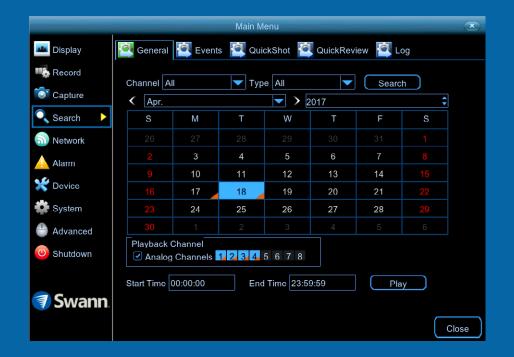
This icon indicates that your DVR does not have a hard drive or it fails to detect the drive that is installed.

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

Main Menu

The "Main Menu" is where you control the various actions and options that are available on your DVR. You can also access previously recorded video for playback and to copy to a storage device such as a USB flash drive. To maintain system integrity, a firmware upgrade can be performed when available and access to the "Shutdown" menu to restart or safely turn off your DVR.





Menu Layout

The various functions and options available, are categorised on the lefthand side of the Menu.

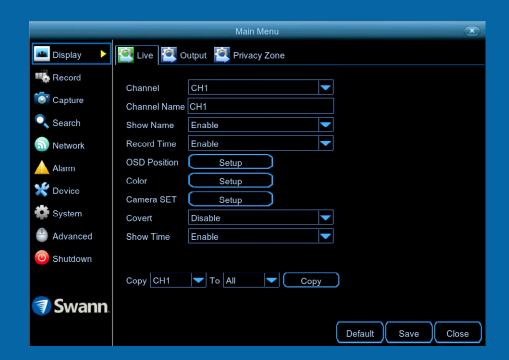
fault value. Main Menu 🧖 General 🙋 DST 🙋 NTP 🙋 Users 🙋 Info 🙋 Channel Info 🥤 🚨 Display Record 20/07/2016 対 Time 11:40:26 AM Date Capture Date Format DD/MM/YY -Search -Time Format 12Hour (GMT+10:00) Canberra, Melbourne, 🔽 Time Zone Network ENGLISH -Language Alarm PAL -Video Format 쑺 Device Menu Timeouts OFF System To exit or access the Show wizard \square previous menu, right-Advanced click the mouse. Shutdown 🗊 Swann. Default Save Close

Clicking each category will reveal a number of tabs or sub-categories that can be changed from their default value.

Save changes that have been made or restore default settings.

Camera Configuration

The camera configuration options are available in the "Display", "Record", "Alarm" and "Device" menus that are accessible from the Main Menu. You can change the resolution, bitrate, OSD (on-screen display) position as well as image settings for hue, brightness, contrast and saturation. Your DVR has controls for detecting motion, allowing you to define specific areas to alert you to a potential threat in and around your home. You also have the ability to create one or more zones for privacy.



	Main Menu	
👛 Display	😫 Record 📓 Record Schedule 🧾 Mainstream 🔯 Substream	
Record Capture Search	Channel CH1 Resolution 1280 x 720	
Network	FPS 25 Bitrate Control CBR Bitrate Mode Predefined	
Device	Bitrate 2048 Verse Kbps	
Advanced Output: Ou		
🧊 Swann.	Copy CH1 To All Copy Default Save Close	

Display: Live

The configuration op-
tions available allow you
to name each camera
relevant to where it has
been installed as well
as the ability to adjust
image settings such as
brightness and contrast.
You can also enable
covert mode to hide the
camera's image in Live
View mode.

		Main Menu 💌
📠 Display 🔹 🕨	👰 Live 🞑 O	utput 🔯 Privacy Zone
Record	Channel	CH1
Capture	Channel Name	
🔍 Search	Show Name	Enable
🔊 Network	Record Time	Enable
🛕 Alarm	OSD Position	Setup
💥 Device	Color	Setup
	Camera SET	Setup
System	Covert	Disable
😬 Advanced	Show Time	Enable
(U) Shutdown		
	Copy CH1	To All Copy
🧊 Swann.		
		Default Save Close

• Don't forget to click "Save" to apply settings.

• Use the "Copy" function to apply all settings to the other cameras.

• Click the "Default" button to revert back to default settings.

• Click the "Close" button to exit the Main Menu.

Channel: Select a camera that you would like to edit.

Channel Name: Enter a name for the camera you've selected. It can be up to 8 characters in length.

Show Name: Leave this enabled to display the camera name in Live View mode, otherwise click the drop down menu to disable.

Record Title: It's recommended to leave this enabled, as a timestamp will be embedded on all video recordings. This allows you to easily identify when events have occurred. You can disable this if you wish.

OSD Position: Allows you to change the position of the camera name on the Live View screen. Click the "Setup" button then use the mouse to reposition the camera name. Right-click the mouse then click "Save".

Color: Click the "Setup" button to access the image adjustment tools:

Hue: This changes the color mix of the image.

Bright: This changes how light the image appears to be.

Contrast: This increases the difference between the blackest black and the whitest white in the image.

Saturation: This alters how much color is displayed in the image.

Use the slider to adjust each setting. When finished, click the "Save" button then click "Close" to exit.

Please note: Any changes made to the image settings available will affect your recordings.

(continued on next page)

Display: Live

📠 Display 🕨	Main Menu		 Don't forget to click "Save" to apply settings.
Capture Search	Channel CH1 Channel Name CH1 Show Name Enable		 Use the "Copy" function to apply all settings to the other cameras.
 Network Alarm Device System 	Record Time Enable OSD Position Setup Color Setup Camera SET Setup Covert Disable		 Click the "Default" button to revert back to default settings. Click the "Close" button to
 Advanced Shutdown Swann. 	Show Time Enable Copy CH1 To All	Copy Default Save Close	exit the Main Menu.

Camera SET: This setting is used to instruct your DVR on the camera type connected. For the cameras included with your DVR, leave the default setting. However, if you are connecting cameras that you have purchased previously or upgrading from an older security system and the image is black & white, change this to TVI or AHD, depending on your camera type. Click the "Setup" button then select the camera type for your camera. If the image is in color, the correct camera type has been selected.

Covert: When enabled, the camera will detect motion and trigger your DVR to record, but you will not see an image of the camera in Live View mode. This may be suitable if your DVR and TV are displayed in a public area (shop, warehouse, school, etc.), but you don't want others to see an image from the camera.

Show Time: By default, the date and time is displayed in Live View mode. You can disable this if you wish.

Display: Privacy Zone

This function can be used to obscure all or	Display	Main Menu 💌	 Don't forget to click "Save to apply settings.
part of your image for privacy (up to four pri- vacy masks can be cre-	Capture Search	Channel CH1 Mask Area Disable Area Setup 1 2 3 4 Mask Area Setup	 Use the "Copy" function to apply all settings to the othe cameras.
ated per camera). You can also use this to minimize false triggers when motion is detect- ed. Areas obscured by	 Solution Solution Alarm Cevice System Advanced 		 Click the "Default" button to revert back to default settings Click the "Close" button to exit the Main Menu.
a mask won't be shown live or recorded.	ShutdownSwann.		

Channel: Select a camera that you would like to edit.

Mask Area: To create a mask, click the drop down menu to enable.

Area Setup: Click the checkbox on the number of privacy masks that you want to create. Up to four privacy masks can be created per camera.

Mask Area: Click the "Setup" button to create one or more masks (see page 17 - <u>Creating a Privacy Mask</u>).

Creating a Privacy Mask

Click and hold here to reposition the mask to the desired location.

Click and hold here to resize the mask to the desired size.



1. Depending on the number of masks that you want to create, each mask will be numbered. To reposition the mask, click and hold the mask number then move the mask to the desired location.

2. To resize the mask, click and hold the bottom right corner of the mask then resize to the desired size. You can reposition and resize each mask to overlap each other.

In the example provided on the left, two masks have been created to block out cars and pedestrians adjacent to the front yard of the house. This will minimise false triggers and block movement that is not relevant to entry via the front entrance.

3. When finished, right-click to exit then click "Save" to apply. Areas obscured by a mask won't be shown live or recorded (see below left).

To remove a mask, uncheck the relevant checkbox next to "Area Setup" then click "Save" to apply.

Record: Mainstream (720p)

The functions available		Main Menu 💌	• Don't forget to click "Save"
here allow you to change	Display	💐 Record Schedule [🥶 Mainstream 🔯 Substream	to apply settings.
the resolution, frame rate and bitrate for each camera connected. By default the recording resolution is automat- ically selected to fit in with the capabilities of the provided cameras.	Image: Record Channel Capture Resolution Search FPS Network Bitrate Contro Alarm Bitrate Device Audio System Advanced Shutdown Sutdown		 Use the "Copy" function to apply all settings to the other cameras. Click the "Default" button to revert back to default settings. Click the "Close" button to exit the Main Menu.
	The state of the second		

Channel: Select a camera that you would like to edit.

Resolution: By default the recording resolution is automatically selected to match the capabilities of the provided cameras. If you have an older analogue camera connected, lower the resolution to "960 x 480" for NTSC and "960 x 576" for PAL, to match the camera's recording capability.

FPS: The number of frames per second (fps) that your DVR will record. The default is 25fps, however you can change this if needed. In the HomeSafe View app, you can select "Mainstream" in Live mode to view your cameras. Lower the frame rate if you're having issues streaming to your mobile device (lowering the frame rate to 15fps for example, will reduce the bandwidth required without sacrificing image quality).

Bitrate Control: CBR (Constant Bitrate) utilises a fixed bitrate and band-

width to record video. This means your DVR will use the same number of bits throughout the entire recording, regardless of what is happening on-screen. VBR (Variable Bitrate) utilises a bitrate and bandwidth that changes when your DVR is recording. The bitrate will increase or decrease depending on how complex the scene is.

Which method should I choose? Scene complexity can vary significantly over several hours of recorded video, and the bitrate you select for recording will have an effect on image quality, bandwidth consumption, and hard drive storage. A complex scene with moving action, such as traffic on a city street, or a scene with a lot of contrasting colors, will affect image quality and bandwidth consumption more than a less complex scene with little action or movement.

(continued on next page)

Record: Mainstream (720p)

	Main Menu 💌	• Don't forget to click "Save"
👛 Display	😫 Record 📓 Record Schedule 🧖 Mainstream	to apply settings.
Record Capture Search Network	ChannelCH1Resolution1280 x 720FPS25Bitrate ControlCBR	• Use the "Copy" function to apply all settings to the other cameras.
Alarm Alarm Device System Advanced 	Bitrate Mode Predefined Bitrate 2048 Kbps Audio	 Click the "Default" button to revert back to default settings. Click the "Close" button to exit the Main Menu.
 Shutdown Swann. 	Copy CH1 To All Copy Default Save Close	

CBR: This is the default method of control that your DVR will use to record video. If you have cameras placed in high traffic areas, CBR is the recommended control method. As the bitrate is fixed, the image quality will be consistent throughout the entire recording. This will assist when identifying people or objects.

VBR: If you have cameras placed in low traffic areas, VBR is the recommended control method. As the bitrate is variable, your DVR can use a lower bitrate if there is little to no movement detected. This will result in a lower recording size as well as a lower bandwidth requirement.

When choosing VBR, you can select the recording quality that will define the variable bitrate used. You can select from lowest to highest.

Bitrate Mode: You have the choice of selecting a predefined or user-defined

bitrate. For most instances, the default selection will be suitable.

Bitrate: The amount of data that your DVR will use to record video. The higher the bitrate, the more space each recording will consume on the hard drive. The default bitrate is 2048Kbps. Change the bitrate if you're having issues streaming to your mobile device via the HomeSafe View app (when selecting "Mainstream" in Live mode to view your cameras). Decreasing this will consume less bandwidth when streaming.

Audio: Click the checkbox if you have an audio source connected to the DVR's audio input(s) (for 8 channel models, this option is on camera input 1 only).

Please note: Selecting the appropriate recording settings is dependent on camera location, lighting conditions and the level of quality required. Some experimentation is recommended to select the best settings.

Record: Mainstream (1080p)

The functions available here allow you to change	🕮 Display	🔍 Record 🧯	Rec
the resolution, frame	Record	Channel	CH1
rate and bitrate for each	Capture	Resolution	1920
camera connected. By default, the recording	Network	FPS Bitrate Control	15 CBR
resolution is automati-	🛕 Alarm	Bitrate Mode Bitrate	Prede 4096
cally selected to match	X Device	Audio	
the native capabilities of	System		
the provided cameras.	Advanced Output: Ou		
	Shutdown		

		Main Menu	×	• Do
🚨 Display	👰 Record 🧧	Record Schedule 🧧 Mainstrea	ım 📔 Substream	to ap
💺 Record 🛛 🕨				-
Conture	Channel	CH1		• Us
Capture Capture	Resolution	1920 x 1080		apply
Search	FPS	15		
Network	Bitrate Control	CBR		came
Alarm	Bitrate Mode	Predefined		• Cli
🗧 Device	Bitrate	4096 🔽 Kbps		rever
Device	Audio			10101
System				• Cli
Advanced				exit t
Shutdown				
Swann.	Copy CH1	To All	Copy Default Save Close	

 Don't forget to click "Save" to apply settings.

• Use the "Copy" function to apply all settings to the other cameras.

• Click the "Default" button to revert back to default settings.

• Click the "Close" button to exit the Main Menu.

Channel: Select a camera that you would like to edit.

Resolution: By default, the recording resolution is automatically selected to match the native capabilities of the provided cameras. If you have an older analogue camera connected, lower the resolution to "960 x 480" for NTSC and "960 x 576" for PAL, to match the camera's recording capability.

FPS: The number of frames per second (fps) that your DVR will record. The default is 15fps, however you can change this if needed. In the HomeSafe View app, you can select "Mainstream" in Live mode to view your cameras. Lower the frame rate if you're having issues streaming to your mobile device (lowering the frame rate to 10fps for example, will reduce the bandwidth required without sacrificing image quality).

Bitrate Control: CBR (Constant Bitrate) utilises a fixed bitrate and band-

width to record video. This means your DVR will use the same number of bits throughout the entire recording, regardless of what is happening on-screen. VBR (Variable Bitrate) utilises a bitrate and bandwidth that changes when your DVR is recording. The bitrate will increase or decrease depending on how complex the scene is.

Which method should I choose? Scene complexity can vary significantly over several hours of recorded video, and the bitrate you select for recording will have an effect on image quality, bandwidth consumption, and hard drive storage. A complex scene with moving action, such as traffic on a city street, or a scene with a lot of contrasting colors, will affect image quality and bandwidth consumption more than a less complex scene with little action or movement.

(continued on next page)

Record: Mainstream (1080p)

	Main Menu 💌	 Don't forget to click "Save"
🚨 Display	Record 📓 Record Schedule 🧖 Mainstream	to apply settings.
Record Capture Search Network	ChannelCH1Resolution1920 x 1080FPS15Bitrate ControlCBR	• Use the "Copy" function to apply all settings to the other cameras.
Alarm Contraction Alarm Device System Advanced	Bitrate Mode Predefined Bitrate 4096 Kbps Audio	 Click the "Default" button to revert back to default settings. Click the "Close" button to exit the Main Menu.
 Shutdown Swann. 	Copy CH1 To All Copy Default Save Close	

CBR: This is the default method of control that your DVR will use to record video. If you have cameras placed in high traffic areas, CBR is the recommended control method. As the bitrate is fixed, the image quality will be consistent throughout the entire recording. This will assist when identifying people or objects.

VBR: If you have cameras placed in low traffic areas, VBR is the recommended control method. As the bitrate is variable, your DVR can use a lower bitrate if there is little to no movement detected. This will result in a lower recording size as well as a lower bandwidth requirement.

When choosing VBR, you can select the recording quality that will define the variable bitrate used. You can select from lowest to highest.

Bitrate Mode: You have the choice of selecting a predefined or user-defined

bitrate. For most instances, the default selection will be suitable.

Bitrate: The amount of data that your DVR will use to record video. The higher the bitrate, the more space each recording will consume on the hard drive. The default bitrate is 4096Kbps. Change the bitrate if you're having issues streaming to your mobile device via the HomeSafe View app (when selecting "Mainstream" in Live mode to view your cameras). Decreasing this will consume less bandwidth when streaming.

Audio: Click the checkbox if you have an audio source connected to the DVR's audio input(s) (for 8 channel models, this option is on camera input 1 only).

Please note: Selecting the appropriate recording settings is dependent on camera location, lighting conditions and the level of quality required. Some experimentation is recommended to select the best settings.

Record: Mainstream (3 Megapixel)

The functions available			Main Menu				×
here allow you to change	🚨 Display	🚔 Record 🧯	Record Schedule	Mainstream	🔍 Substr	eam	
the resolution, frame rate and bitrate for each camera connected. By default, the recording resolution is automati- cally selected to match the native capabilities of	Record Capture Search Network Alarm Device System	Channel Resolution FPS Bitrate Control Bitrate Mode Bitrate Audio	CH1 1920 x 1536 7 CBR Predefined 4096 V Kbp)3			
the provided cameras.	🔮 Advanced						
	 Shutdown Swann. 	Copy CH1	To All	.	Copy) Save	Close

 Don't forget to click "Save" to apply settings.

• Use the "Copy" function to apply all settings to the other cameras.

 Click the "Default" button to revert back to default settings.

 Click the "Close" button to exit the Main Menu.

Channel: Select a camera that you would like to edit.

Resolution: By default, the recording resolution is automatically selected to match the native capabilities of the provided cameras. If you have an older analogue camera connected, lower the resolution to "960 x 480" for NTSC and "960 x 576" for PAL, to match the camera's recording capability.

FPS: The number of frames per second (fps) that your DVR will record. The default is 7fps, however you can change this if needed. In the HomeSafe View app, you can select "Mainstream" in Live mode to view your cameras. Lower the frame rate if you're having issues streaming to your mobile device (lowering the frame rate to 4fps for example, will reduce the bandwidth required without sacrificing image quality).

Bitrate Control: CBR (Constant Bitrate) utilises a fixed bitrate and band-

width to record video. This means your DVR will use the same number of bits throughout the entire recording, regardless of what is happening on-screen. VBR (Variable Bitrate) utilises a bitrate and bandwidth that changes when your DVR is recording. The bitrate will increase or decrease depending on how complex the scene is.

Which method should I choose? Scene complexity can vary significantly over several hours of recorded video, and the bitrate you select for recording will have an effect on image quality, bandwidth consumption, and hard drive storage. A complex scene with moving action, such as traffic on a city street, or a scene with a lot of contrasting colors, will affect image guality and bandwidth consumption more than a less complex scene with little action or movement.

(continued on next page)

Record: Mainstream (3 Megapixel)

	1	Main Menu	×	Don't forget to click "Save
🚨 Display	Record	Record Schedule Mainstream	🔍 Substream	to apply settings.
Record	Channel	CH1		 Use the "Copy" function to
Capture	Resolution	1920 x 1536		apply all settings to the othe
Search	FPS Bitrate Control	7 CBR		cameras.
Alarm	Bitrate Mode	Predefined		Click the "Default" button to
💥 Device	Bitrate	4096 V Kbps		revert back to default settings
System	Audio	\cup		Click the "Close" button to
Advanced				exit the Main Menu.
(U) Shutdown				
🧃 Swann.	Copy CH1	To All	Copy Default Save Close	

CBR: This is the default method of control that your DVR will use to record video. If you have cameras placed in high traffic areas, CBR is the recommended control method. As the bitrate is fixed, the image quality will be consistent throughout the entire recording. This will assist when identifying people or objects.

VBR: If you have cameras placed in low traffic areas, VBR is the recommended control method. As the bitrate is variable, your DVR can use a lower bitrate if there is little to no movement detected. This will result in a lower recording size as well as a lower bandwidth requirement.

When choosing VBR, you can select the recording quality that will define the variable bitrate used. You can select from lowest to highest.

Bitrate Mode: You have the choice of selecting a predefined or user-defined

bitrate. For most instances, the default selection will be suitable.

Bitrate: The amount of data that your DVR will use to record video. The higher the bitrate, the more space each recording will consume on the hard drive. The default bitrate is 4096Kbps. Change the bitrate if you're having issues streaming to your mobile device via the HomeSafe View app (when selecting "Mainstream" in Live mode to view your cameras). Decreasing this will consume less bandwidth when streaming.

Audio: Click the checkbox if you have an audio source connected to the DVR's audio input(s) (for 8 channel models, this option is on camera input 1 only).

Please note: Selecting the appropriate recording settings is dependent on camera location, lighting conditions and the level of quality required. Some experimentation is recommended to select the best settings.

Record: Substream

The functions available
here allow you to control
how video is streamed to
your mobile device us-
ing the HomeSafe View
app. You can change the
frame rate and bitrate
if you're having issues
streaming live video
from your DVR.

		Main Menu	×
🚨 Display	🔍 Record	Record Schedule 🛛 Mainstream 🞑 Substream	
🖏 Record 🕨 🕨			
Capture	Channel		
		352 x 288	
Search	FPS		
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\rm Alarm	Bitrate Mode	Predefined	
💥 Device	Bitrate	96 Vbps	
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🔮 Advanced			
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		Default Save Clos	e

• Don't forget to click "Save" to apply settings.

• Use the "Copy" function to apply all settings to the other cameras.

• Click the "Default" button to revert back to default settings.

• Click the "Close" button to exit the Main Menu.

Channel: Select a camera that you would like to edit.

Resolution: The Substream resolution is always set to 352 x 240 for NTSC and 352 x 288 for PAL, and cannot be changed.

FPS: The number of frames per second (fps) that your DVR will process when streaming to your mobile device via the HomeSafe View app. For most instances, the default frame rate will be suitable. Change this to 10fps or 15fps for cameras that monitor medium to high traffic areas. This will give you smoother motion, but just be aware this will also increase the bandwidth required.

Bitrate Control: Change this to VBR. This will result in a lower recording size as well as a lower bandwidth requirement. You can select the recording quality that will define the variable bitrate used, from lowest to highest.

Bitrate Mode: You have the choice of selecting a predefined or user-defined bitrate. For most instances, the default selection will be suitable.

Bitrate: The amount of data that your DVR will use to stream video to your mobile device. For cameras that monitor medium to high traffic areas, increase the bitrate to add more detail to the camera's image, but just be aware this will also increase the bandwidth required. Increase the bitrate in small doses until you are satisfied with the image quality.

Audio: Click the checkbox if you have an audio source connected to the DVR's audio input(s) (for 8 channel models, this option is on camera input 1 only).

Please note: When streaming live video, the quality is dependent on your internet connection and the Substream settings utilised. This is important when streaming multiple cameras at the same time.

Alarm: Motion

detected by one or more cameras, your DVR will alert you to a potential threat at your home. It does this by sending you ap amail alort with Im Display Im Motion to apply settings. • Use the "Copy" function apply all settings to the oth cameras. • Motion Enable Enable Buzzer Disable • Use the "Copy" function apply all settings to the oth cameras. • Motion Area Setup • Click the "Default" buttor	When motion has been		Main Menu 💌	 Don't forget to click "Save"
cameras, your DVR witt Channel CH1 - - Use the "Copy" function apply all settings to the oth cameras. alert you to a potential threat at your home. Search Search Sensitivity 4 - - Use the "Copy" function apply all settings to the oth cameras. It does this by sending you ap amail alort with Alarm Post Recording 30 s - Click the "Default" button		🚨 Display	Motion	5
alert you to a potential threat at your home. It does this by sending you ap amail alert with Alarm Post Recording 30 s Click the "Default" button	cameras, your DVR will		Channel CH1	 Use the "Copy" function to
threat at your home. It does this by sending vou ap amail alort with Alarm Post Recording 30 s - Click the "Default" button	alert you to a potential		Enable Table Buzzer Disable	
It does this by sending Network Post Recording 30 s Click the "Default" button	threat at your home.	Search	Sensitivity 4	
Volu ap amout alort with a Adding A	It does this by sending	S Network		
	you an email alert with	🛕 Alarm 🕨 🕨	Post Recording 30 s	 Click the "Default" button to
an attached image from Pevice Record Channel	an attached image from	💥 Device	Record Channel	revert back to default settings.
	5	System	Analog Channels 1 2 3 4 5 6 7 8	Click the "Close" button to
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is enabled) and/or send-	is enabled) and/or send-	(U) Shutdown		
ing push notifications via	ing push notifications via			
the HomeSafe View app. The Swann	the HomeSafe View app.	🗊 Swann		

Channel: Select a camera that you would like to edit.

Enable: If for some reason motion detection is not required, you have the option to disable it.

Buzzer: When motion has been detected, you can enable the DVR's buzzer to alert you for a predetermined amount of time.

Sensitivity: This option allows you to change the sensitivity level. The higher the number, the more sensitive your DVR will be when detecting motion. For most instances, the default selection will be suitable, however it's recommended to conduct a test to see if the sensitivity level is correct for the camera's location (see page 28 - <u>Motion Detection Tips</u>).

Area: Click the "Setup" button to change the default motion detection area. The entire view of the camera is enabled for motion detection, however you can select certain areas if you wish (see page 27 - Motion Detection Setup).

Post Recording: This option instructs your DVR to record for a set period of time after an event has occurred. For most instances, the default selection will be suitable, however you can change this if you wish.

Show Message: When motion has been detected, the motion icon will appear on-screen. Click the checkbox if you want to disable this.

Send Email: Click the checkbox to enable your DVR to send an email alert when motion has been detected.

Full Screen: Click the checkbox if you would like to view the camera full screen in Live View mode when motion has been detected.

(continued on next page)

Alarm: Motion

		Main Menu		×
📠 Display	Motion			
Record	Channel CH1			
Capture	Enable Enal	ole 🔻 Buzzer Disat	ole 🔽	
🔍 Search	Sensitivity 4			
S Network	Area S	Setup		
🛕 Alarm 🔹 🕨	Post Recording 30 s			
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System	C Analog Channe	els 1 2 3 4 5 6 7	8	
🐣 Advanced				
(U) Shutdown				
🗊 Swann.	Сору СН1 🔽	To All 🔽	Copy	
			Default	ave Close

• Don't forget to click "Save" to apply settings.

• Use the "Copy" function to apply all settings to the other cameras.

• Click the "Default" button to revert back to default settings.

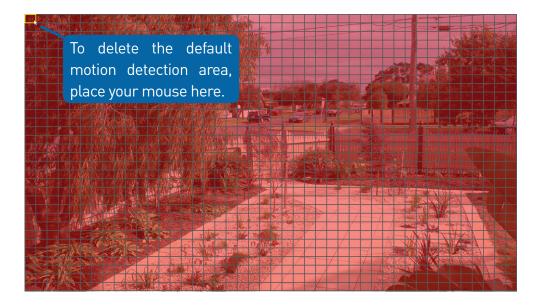
• Click the "Close" button to exit the Main Menu.

Push: Click the checkbox to enable push notifications via the HomeSafe View app (alarm notification has to be enabled - see "Alarm Mode" in the <u>Home-Safe View manual</u> for more information). This option is only available if you have one or more thermal-sensing cameras connected to your DVR.

Record Channel: You can instruct your DVR to disable recording when motion has been detected. Your DVR will still alert you by displaying the motion icon on-screen and by email if this option has been enabled. Click the checkbox to disable.

Analog Channels: This option instructs your DVR to trigger additional cameras to start recording when motion has been detected. Click the checkbox to select all cameras or click on the individual camera number that you want to trigger for recording.

Motion Detection Setup





1. Place the mouse inside the cell or square surrounded by a yellow border (as illustrated on the left). Press and hold the left mouse button, click and drag to the bottom right-hand corner then release the mouse. This will delete the default motion detection area.

2. To create a new motion detection area, select the cell or square that you want to start at. Press and hold the left mouse button, click and drag to select the area that you want to create then release the mouse.

3. Multiple areas can be created. Each individual cell or square can be enabled to detect motion. The same action also applies to delete an area that has been created.

In the example provided, a motion detection area has been created for the front yard but excludes objects such as trees as well as cars and pedestrians adjacent to the front yard of the house. Anyone who walks along the path via the front entrance and approaches the front door will be detected.

Movement outside of the motion detection areas will not be detected so will not trigger recordings or event notifications.

4. Right-click the mouse to exit. Adjust the sensitivity if required.

5. Click the "Save" button to save changes made.

Motion Detection Tips

Placement of the cameras

1. Place cameras so they are facing areas where people have to walk through to approach your home regardless of where they are headed. A good idea is to place a camera overlooking your front door to capture an image of anyone approaching it for later reference. This is great if you have parcels delivered to your door or if the potential burglar knocks or rings the doorbell to see if anyone is home.

2. Walk around your house and assess where intruders are most likely to approach to enter, and what path they would take. Most burglars enter the home through a front or back door, so it's advisable to place the cameras near those areas so that you get the best amount of detail of anyone who approaches.

3. When installing cameras outside, it's important to keep your front and backyard as well-lit as possible for ideal night vision and the ability to detect motion. It's common for intruders to enter a home through an unlocked garage or by using a garage door opener in an unlocked car located in the driveway. Positioning your cameras to overlook cars in the driveway and similar locations can be very useful.

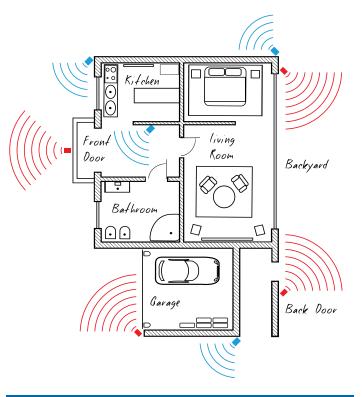
Avoiding False Triggers

1. A tree, shrub or foliage that is blown by the wind - angle the camera so wind-blown objects are out of the camera's view or use the camera motion detection area settings to exclude these areas from detection.

2. People moving along sidewalks or streets that are close to your home, aim your cameras and use the motion detection area settings to ensure only legitimate threats are triggering events.

3. Vehicles moving in the background - angle the camera so as to avoid movement in the background or use the motion detection area settings to stop detection of cars in the street.

4. Movement or light reflected off smooth surfaces such as glass - adjust the sensitivity level and/or avoid pointing the camera directly at glass surfaces.



The **red cameras** illustrated (see above) are your primary locations. Place your cameras close to the front door, back door, garage entrance and overlooking the backyard.

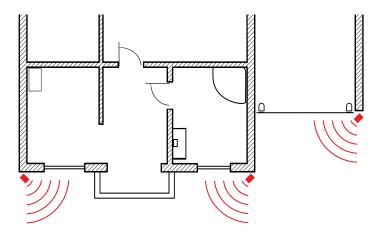
The **blue cameras** illustrated are your secondary locations. If your DVR includes additional cameras, place these at the front entrance inside the home, the front of the house (this could overlook the front garden or driveway), a side gate or if you have multiple entrances to the backyard.

Thermal-Sensing Camera Tips

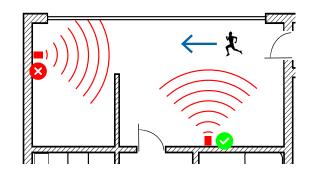
If thermal-sensing cameras have been included with your DVR or you have purchased them separately, the following tips will help you in getting the best results from your security system.

Your cameras have a built-in PIR (passive infrared motion detector) sensor. This means they can sense movement of warm objects including people, cars and animals. The advantage over cameras that don't have a PIR sensor, is they are very resistant to false triggers from changes in the image.

- → PIR sensors work best when an intruder walks parallel or is passing across their "field of view" as opposed to walking directly at them. For example, in a hallway or path around the house you tend to walk parallel to the walls, not directly toward them. Position your cameras so that anyone approaching your home will cross the camera's view and trigger an event.
- → For a recording to occur, the PIR must sense a warm object moving in front of it and the camera's image sensor must detect movement in the image. If either of these triggers has not occurred, no video will be recorded.
- → When the PIR is triggered, the PIR icon (red box) will flash on-screen. If PIR and motion are triggered, the "running man" icon will be shown on-screen indicating that an event has occurred and that a recording is happening.
- → The PIR can detect objects outside of the camera's field of view, so not everything that triggers the sensor will be visible on your camera.
- ightarrow The PIR can reliably detect movement up to 30ft/9m, movement beyond this range may or may not be detected.
- → Be aware that sudden changes in temperature of paths, roads, etc., can cause some minor false alerts to occur when there is also movement in the image such as trees and shadows.
- → If some false triggering is occurring, use the motion area setup to remove moving objects from being detected, and to further refine your alerts (see page 27 <u>Motion Detection Setup</u>).
- → When used indoors, keep the cameras away from heating vents, heaters and other heat sources as they can trigger the PIR. However if there is no movement in the image, a false alert is unlikely.



When installing cameras outside, mount them where intruders are most likely to enter (front and back doors, garage entrance). Angle each camera so the intruder walks parallel to the sensor.



PIR sensors work best when an intruder walks parallel or is passing across their "field of view" as opposed to walking directly at them.

Click for contents

Device: PTZ

	Main Menu	Den't forget to click "Save"
📠 Display	🔄 HDD 🖆 S.M.A.R.T. 🔯 PTZ	• Don't forget to click "Save" to apply settings.
Image: Record Image: Capture Image: Capture Image: Search Image: Network Image: Alarm Image: Device	ChannelCH1ProtocolPelco-DBaudrate9600DataBit8StopBit1ParityNoneCruiseEnable	 Use the "Copy" function to apply all settings to the other cameras. Click the "Default" button to revert back to default settings.
System	Address 001	 Click the "Close" button to exit the Main Menu.
 Shutdown Swann. 	Copy CH1 🔽 To All 🔽 Copy	Default Save Close

If you have a compatible PTZ camera connected to your DVR, you can use the PTZ controls to move the camera as well as the ability to zoom into an object and to control the level of focus (if available). You can create multiple preset positions, which can be recalled to focus the camera's view to a different position. Cruise mode can also be used to move the camera to different preset positions that have been created.

To configure your PTZ camera, consult the instruction manual included with your device then match those settings here.

Please note: Each channel has a unique address assigned to it, channel 1 is 001, channel 2 is 002, etc. Most PTZ cameras have their address or ID set to 001, therefore when connecting to a channel other than channel 1, the channel address will have to be changed to match the same address used by the camera. For example, if the camera is connected to channel 3, click the drop down menu, select "CH3" and change the address to 001. Select "CH1" and change the address to 003. Click the "Save" button to apply settings.

For instructions on how to control your PTZ camera and creating preset positions (see page 31 - <u>Controlling your PTZ Camera</u>).

Controlling your PTZ Camera



A Swann Pro-852 PTZ camera has been used in the example provided. This model is compatible with the 1600 and 4575 series of DVRs (the 1590 series does not have the ability to control a PTZ camera). To control your PTZ camera, in Live View mode click on the channel the camera is connected to then click the "PTZ" button located on the camera toolbar. The channel will go full screen and the PTZ controls will be visible (as shown on the left).

1. If you have multiple PTZ cameras connected, click this to select a different camera.

2. Click this to start cruise mode (preset positions must be created first). Cruise mode instructs your DVR to automatically move the camera according to the preset positions that have been created. Click again to stop cruise mode.

3. Adjust the speed control to alter how fast or slow the camera will pan or tilt. Move the slider to decrease or increase the speed.

4. Click this to access the Preset panel. This allows you to create multiple preset positions and to access the camera's on-screen display. Click again to close.

5. This allows you to zoom into an object and to control the level of focus (depending on the camera you have, the iris control may not be available).

6. Click the directional buttons to move the camera in the direction selected (the middle button has no function).

For instructions on how to create a preset and to access the camera's onscreen display (see page 32 - <u>Creating a Preset</u>).

Creating a Preset



1. Each preset position will have a different number assigned to it. To recall a particular position, click the dialogue box, input a number then click "GO TO". The camera will then move to that particular position. When creating a preset position, you may want to make note which position is assigned to each number.

2. Click the dialogue box to change the length of time (in seconds) the camera will stay at a particular position, before moving to the next position.

- **3.** Click this to go to a particular preset position.
- 4. Click this to create a preset.
- 5. Click this to save any changes made.
- 6. Click this to clear a preset.

Creating a Preset

- → To create a preset, use the PTZ controls to move the camera to the desired focal position. The zoom and focus controls can also be used. Use the speed control to alter how fast or slow the camera will move.
- \rightarrow Change the length of time the camera will stay at this position.
- → Click the "Set" button to create the preset. You will notice that the preset position will increase each time a preset is created. The total number of presets created will also be displayed. Up to 255 different preset positions can be created.
- $\rightarrow\,$ Repeat these steps to create multiple preset positions. When finished, click the "Save" button to save. Right-click to exit.
- \rightarrow Click the "Start Cruise" button to continually cycle through each preset created. Click again to stop.

Accessing your Camera's On-screen Display

- → Click the preset position dialogue box (1) then click the backspace button twice. Enter "95", click the enter button then click the "GO TO" button.
- \rightarrow To navigate the on-screen display, click the up and down directional buttons. The hyphen indicates which option or setting has been selected.
- \rightarrow Click the right directional button to confirm selection. Click the left and right directional buttons to change settings within sub-menus.
- ightarrow Consult the camera's instruction manual for information about the functions available in the on-screen display.

Recording Configuration

The recording configuration options are available in the "Record" and "Capture" menus that are accessible from the Main Menu. From here you can access and change the default recording schedule (presented as a 24 hour 7 days a week grid and is color coded) for each camera connected. You can also enable and set a schedule for your DVR to take a snapshot each time an event occurs.





Record: Record

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🚨 Display	Record	Record Schedule	🎑 Mainstream	🔍 Substream	to apply settings.
🖷 Record 🕨 🕨					
Capture	Channel Record Switch	CH1 Enable			 Use the "Copy" function to apply all settings to the other
Search		DualStream			cameras.
Network	PreRecord	Enable			
🔔 Alarm					 Click the "Default" button to
💥 Device					revert back to default settings.
System					Click the "Close" button to
🐣 Advanced					exit the Main Menu.
U Shutdown					
🗊 Swann.	Сору СН1	To All		Сору	
				Default Save Close	

Channel: Select a camera that you would like to edit.

Record Switch: When disabled, your DVR will detect motion but it will not record (manual record is also disabled).

Stream Mode: By default, your DVR will record both Mainstream and Substream video (known as DualStream). This is especially useful when using Playback mode via the HomeSafe View app, as Substream video will be used. This requires less bandwidth to stream the video from your DVR to your mobile device. Mainstream video is used for playback when using your DVR directly. If remote playback is not required, you can select Mainstream recording only.

PreRecord: Allows your DVR to record for a number of seconds before an event occurs. It's recommended to leave this enabled.

Record: Schedule

By default, a Motion schedule has been enabled for each camera connected, however you can change the schedule to suit your needs. The schedule is presented as a 24-hour 7 days a week grid and is color coded to represent the event type.



• Don't forget to click "Save" to apply settings.

• Use the "Copy" function to apply all settings to the other cameras.

• Click the "Default" button to revert back to default settings.

• Click the "Close" button to exit the Main Menu.

Channel: Select a camera that you would like to edit.

Normal: Your DVR will constantly record for a set period of time.

Motion: Your DVR will only record when motion has been detected from one or more cameras.

Each square represents 30 minutes. Using the mouse, select the desired recording mode then click on a particular square to change or click and drag the mouse over the squares corresponding to your desired time period. The same action can also be applied if Normal or Motion recording is not required (on one or more sections that have recording enabled).

In the above example, a Motion recording schedule has been created for 12:00 a.m. to 06:00 p.m. and a Normal recording schedule for 06:00 p.m. to 12:00 a.m. Sunday to Saturday.

To search for and play previous Normal and Motion recordings (see page 39 - <u>Search: General</u>).

Capture: Capture

As an added feature, you can enable and set	Main Menu 💌	 Don't forget to click "Save" to apply settings.
a schedule for your DVR to take a snapshot each time an event occurs. This is particularly use-	Image: Record Channel CH1 Image: Capture Auto Capture Disable Image: Auto Capture Stream Mode Mainstream Image: Stream Mode Mainstream Image: Stream Interval Image: Stream Mode Normal Interval Image: Stream Interval Image: Autore Manual Capture Disable	• Use the "Copy" function to apply all settings to the other cameras.
ful for finding motion events quickly and can also be used for differ- ent purposes such as	Alarm Copy CH1 Copy Ch1 Copy Copy CH1 Cop	 Click the "Default" button to revert back to default settings. Click the "Close" button to exit the Main Menu.
time lapse photography.	 Shutdown Swann. 	

Channel: Select a camera that you would like to edit.

Auto Capture: When enabled, your DVR will take a snapshot each time an event occurs.

Stream Mode: Leave the default selection. This will save each snapshot at the camera's native resolution.

Normal Interval: The length of time that must elapse before a snapshot is taken. For example, when setting a Normal capture schedule, a snapshot will be taken every 5 seconds using the default selection. Adjust accordingly.

Alarm Interval: When setting a Motion capture schedule, a snapshot will be taken each time motion has been detected according to the interval selected. Adjust accordingly.

Manual Capture: Enable this feature if you would like to manually take a snapshot using the Manual Capture button on the camera toolbar.

As this is an added feature, a capture schedule is not enabled by default. To enable this (see page 37 – <u>Capture: Schedule</u>).



Capture: Schedule



• Don't forget to click "Save" to apply settings.

• Use the "Copy" function to apply all settings to the other cameras.

• Click the "Default" button to revert back to default settings.

• Click the "Close" button to exit the Main Menu.

Channel: Select a camera that you would like to edit.

Each square represents 30 minutes. Using the mouse, select the desired capture mode then click on a particular square to change or click and drag the mouse over the squares corresponding to your desired time period. The same action can also be applied if Normal or Motion capture mode is not required (on one or more sections that have been enabled).

In the above example, a Motion capture schedule has been created for 12:00 a.m. to 06:00 p.m. and a Normal capture schedule for 06:00 p.m. to 12:00 a.m. Sunday to Saturday.

Playback & Backup

The Search function gives you the ability to search for and play previously recorded videos as well as snapshots that are stored on your DVR's hard drive. You have the choice of playing video that matches your recording schedule, manual recordings or motion events only. The Backup function gives you the ability to save important events (both video and snapshots) to a USB flash drive.

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Capture	Channel All Type All Quick Backup Search	
🔍 Search 🕨 🕨	Channel Type Date Start Time End Time Size Playback L	
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	CH3 M 04/18/2017 10:41:39 10:45:41 126MB	
	CH4 M 04/18/2017 10:41:39 10:45:40 125MB	
Device	CH1 M 04/18/2017 10:41:40 10:45:40 125MB	
System	CH4 M 04/18/2017 10:49:48 10:50:18 15MB	
	CH1 M 04/18/2017 10:49:49 10:50:17 14MB	
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	Backup	e

Search: General

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30	1	2	3	4	5	6		

1. Click the drop down menu to select the month that you would like to search on.

2. Click the drop down menu to select the year that you would like to search on.

3. Click the drop down menu to select from one or all cameras that you would like to search on and display for playback.

4. Click the drop down menu to select the video type that you want to search on. In most circumstances "Motion" would be selected but you can leave this on "All" if you want to search for all video types. Adjust accordingly.

5. Click the "Search" button to filter your search criteria.

6. The orange triangles indicate there are recordings on those particular dates that match your search criteria. Click on a date that you want to select for playback.

7. When selecting all cameras for playback, this will indicate the channels that match your search (each channel will be highlighted in blue with an orange triangle). You can leave the default selection or you can select specific cameras for playback (click the checkbox then select the channel required).

8. You can leave the default selection or you can click the dialogue box to enter a specific start time.

9. You can leave the default selection or you can click the dialogue box to enter a specific end time.

10. Click the "Play" button to start playing.

You will now see the playback interface (see page 40 - <u>Playback Interface</u>).

Playback Interface



Calendar: You can select a different date without exiting to the previous screen.

Playback Mode: You have the option of selecting a different playback mode (a message will appear on-screen when changing modes).

Camera List: Select from one or more cameras to display for playback. The blue icon indicates which cameras match your search criteria.

Time Period: This represents the time period that is visible. Click on a different time period to zoom in for precise control.

1. Click this to hide the playback interface so you can maximise your viewing area. Right-click to restore.

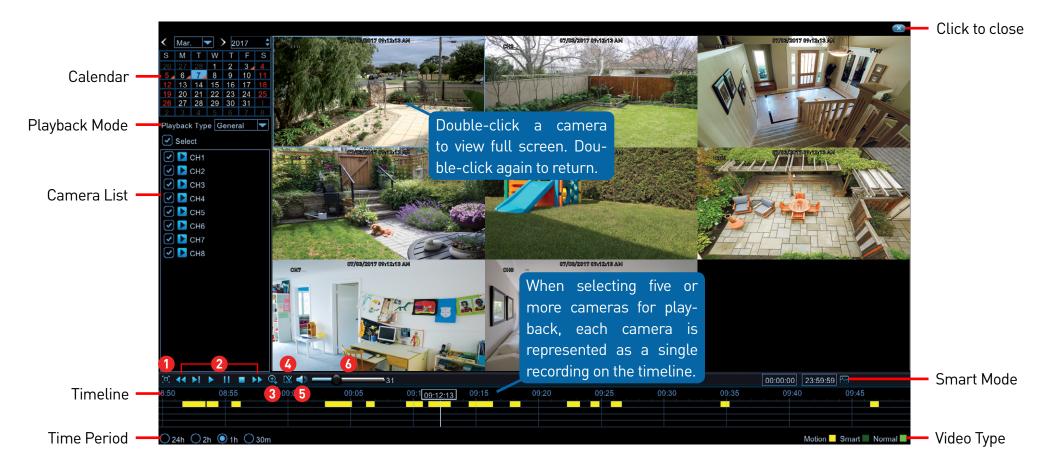
2. From left to right, these are your reverse, slow motion, play, pause, stop and fast forward con-

trols. Subsequent presses of the reverse, slow motion and fast forward buttons will increase the speed of each action.

3. Select a camera, click this button then click and drag an area to get a close up view. Use the picture-in-picture screen to select a different area to view. Right-click to exit.

(continued on next page)

Playback Interface



4. This button allows you to edit the video by setting mark in and out points on your video which you can then copy to a USB flash drive. When you have selected a video to play, press this button at the mark in point and press it again at the mark out point. Press the button again to save (a disk icon will be shown). For the backup type, leave the default selection or change to AVI or MP4 for wider playback compatibility on your computer (we recommend VLC media player software, you can download a free copy from <u>www.videolan.org</u>). Insert a USB flash drive to your DVR then click "Save". You have the choice of formatting the flash drive or creating a new folder if required. Click "OK" to save then click "Close" when finished.

5. Click this button to mute or unmute the audio.

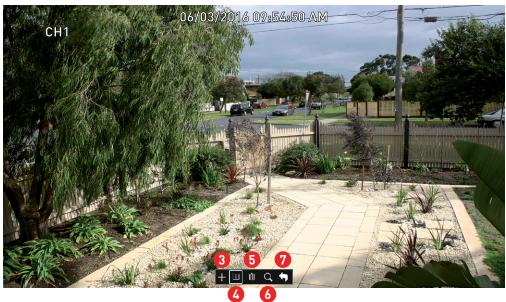
6. Click and hold the slider left or right to change the volume level.

Video Type: Indicates the video type on the timeline.

Smart Mode: This mode allows you to define a specific area of the video which then makes it easier to find what you are searching for (see page 42 - <u>Smart Mode</u>).

Playback: Smart





Smart mode allows you to define one or more specific areas of the video which then makes it easier to find what you are searching for. For example, you may have movement on the left-hand side of the yard, but you want to see what is happening on the right-hand side. Define one or more areas where required then search to play video based on those defined areas.

To commence Smart mode, select a camera that you would like to search on (if the video is not playing, click play).

1. You can leave the default selection or you can click each dialogue box to enter a specific start and end time.

2. Click this button to define one or more areas that you want to search for.

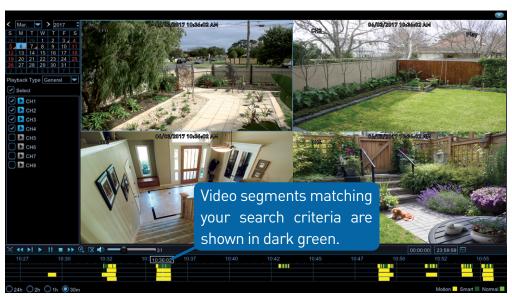
The camera will be shown full screen and the Smart mode controls will be visible.

- 3. To move the controls, click and hold here then reposition it.
- 4. Click this to define a full screen detection area.
- 5. Click this to delete all areas created.
- 6. Click this to search and play video based on the areas defined.
- 7. Click this to return to the playback interface.

(continued on next page)

Playback: Smart





8. Click and drag to select the area that you want to define. Multiple areas can be defined. You can also use the same action to remove sections of the defined area or to delete it entirely.

9. When finished, click the search button to play video based on the areas defined.

You'll be returned back to the playback interface. Segments matching your search criteria will be shown on the timeline in dark green (as illustrated bottom left).

Can I use Smart mode on multiple cameras at the same time? Due to the complexities and processing power required, you can only use Smart mode on one camera at a time.

Search: Events

	Main Menu 💌		Main Menu	×
🚨 Display	🔄 General 🔯 Events 🛱 QuickShot 🧧 QuickReview 🗿 Log	🚨 Display	🔄 General 🔯 Events 🙋 QuickShot 📮 QuickReview 🞑 Log	
Capture	Date 04/18/2017 Time 00:00:00 23:59:59 Channel All Type All Quick Backup Search	Record	Date 04/18/2017 Time 00:00:00 23:59:59 Channel All Type All Quick Backup Search)
🔍 Search 🛛 🕨	Channel Type Date Start Time End Time Size Playback Lo	🔍 Search 🛛 🕨	Channel Type Date Start Time End Time Size Playbac	ck L
🔊 Network		Network	CH2 M 04/18/2017 10:41:39 10:45:41 126MB	C
\rm Alarm		\rm Alarm	CH3 M 04/18/2017 10:41:39 10:45:41 126MB	
💥 Device		🖌 Device	CH4 M 04/18/2017 10:41:39 10:45:40 125MB CH1 M 04/18/2017 10:41:40 10:45:40 125MB	
🗱 System		System	CH4 M 04/18/2017 10:49:48 10:50:18 15MB	ζ
Advanced		Advanced	CH1 M 04/18/2017 10:49:49 10:50:17 14MB	
			CH2 M 04/18/2017 10:49:49 10:50:18 15MB CH3 M 04/18/2017 10:49:49 10:50:16 14MB	
U Shutdown		Obstant Shutdown	CH1 M 04/18/2017 10:52:44 10:53:15 15MB	<u>č</u>
🗊 Swann.	<< 1/1 1 >> Backup Close	🗊 Swann.	<< 1/5 1 >	>> Close

This function can be used to search, play and copy motion events to a USB flash drive.

Date: Click the calendar icon to select the month, year and date that you would like to search on.

Time: You can leave the default selection or you can click the dialogue box to enter a specific start and end time.

Channel: Click the drop down menu to select from one or all cameras that you would like to search on.

Type: Leave the default selection.

Quick Backup: Click this to copy all motion events that match your search criteria.

Search: Click this to display a list of motion events that match your search criteria (as shown above). Double-click an event to play (the event will play full screen). Click the checkbox next to each event to select it.

Backup: Click this to copy selected motion events. For the backup type, leave the default selection or change to AVI or MP4 for wider playback compatibility on your computer (we recommend VLC media player software, you can download a free copy from <u>www.videolan.org</u>). Insert a USB flash drive to your DVR then click "Save". You have the choice of formatting the flash drive or creating a new folder if required. Click "OK" to save then click "Close" when finished.

Close: Click this to exit.



Search: QuickShot

	Main Menu 💌
📠 Display	🔄 General 🔄 Events 🧾 QuickShot 🞑 QuickReview 🚊 Log
Record	Date 04/18/2017 📅 Time 00:00:00 23:59:59
Capture	Channel All Type All Quick Backup Search
🔍 Search 🛛 🕨	No. Channel Type Date Time Size Playback
Network	
🛕 Alarm	
💥 Device	
System	
🐣 Advanced	
(U) Shutdown	
🗊 Swann.	< 1/1 1 → >>
	Backup Close

				Main Men	L			×
👛 Display	🞑 Ge	neral	Events	QuickS	Shot 鶭 Quicl	<review th="" 🔯<=""><th>Log</th><th></th></review>	Log	
Record	Date	04/1	8/2017 📩	Time 00:0	0:00	23:59:59		
Capture		nel All		Type All		uick Backup	Search	
🔍 Search 🛛 🕨	\Box	No.	Channel	Туре	Date	Time	Size	laybac
S Network		1	CH1	M	04/18/2017	14:29:41	624KB	
		2	CH1	М	04/18/2017	14:29:54	621KB	
Alailli		3	CH1	Μ	04/18/2017	14:29:59	621KB	
💥 Device		4	CH1	Μ	04/18/2017	14:30:04	622KB	
System		5	CH1	Μ	04/18/2017	14:30:09	628KB	
		6	CH1	М	04/18/2017	14:30:14	627KB	
՝ Advanced		7	CH1	М	04/18/2017	14:30:19	617KB	
(U) Shutdown		8	CH1	М	04/18/2017	14:30:24	618KB	
		9	CH1	М	04/18/2017	14:30:29	621KB	
		10	CH1	М	04/18/2017	14:30:34	622KB	Ţ
🗊 Swann.						<< 1/3	1	>>
							Backup	Close

This function can be used to search, play and copy snapshots to a USB flash drive.

Date: Click the calendar icon to select the month, year and date that you would like to search on.

Time: You can leave the default selection or you can click the dialogue box to enter a specific start and end time.

Channel: Click the drop down menu to select from one or all cameras that you would like to search on.

Type: You can leave the default selection or you can click the dialogue box to select the type of snapshot you would like to search on.

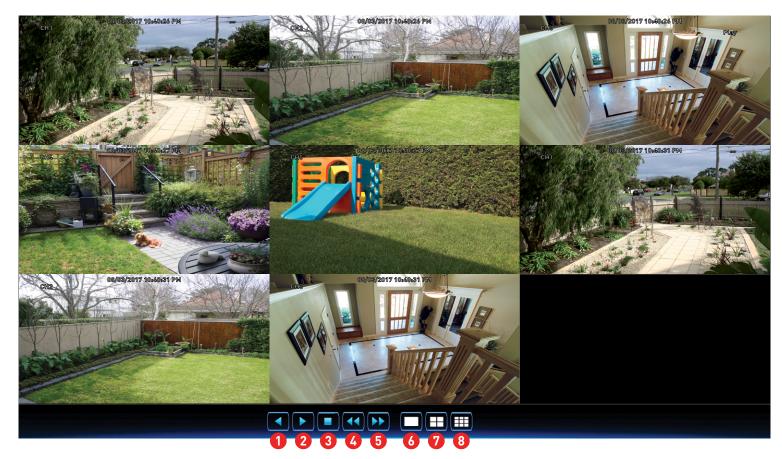
Quick Backup: Click this to copy all snapshots matching your search criteria.

Search: Click this to display a list of snapshots that match your search criteria (as shown above). Double-click a snapshot to display it full screen. You can also play a slideshow (see page 46 - <u>Playing a Slideshow</u>). Click the checkbox next to each event to select it (a maximum of 5000 snapshots can be displayed at any one time).

Backup: Click this to copy selected snapshots. Insert a USB flash drive to your DVR then click "Save". You have the choice of formatting the flash drive or creating a new folder if required. Click "OK" to save then click "Close" when finished.

Close: Click this to exit.

Playing a Slideshow



- **1.** Click this to play the slideshow in reverse.
- 2. Click this to play the slideshow.
- **3.** Click this to stop the slideshow.
- **4.** Click this to display the previous snapshot or group of snapshots.
- **5.** Click this to display the next snapshot or group of snapshots.

- **6.** Click this to view a single snapshot at a time.
- 7. Click this to view four snapshots at a time.
- **8.** Click this to view eight snapshots at a time.
- Right-click to exit.

Search: QuickReview

	Main Menu									
👛 Display	a 0	General	🔍 Event	s 🚺 Quie	ckShot 🧧	QuickRev	iew 🞑 Lo	og		
Record	Cha	nnel C	H1	🕄 🔽 Тур	e All	<u>(</u>	Searc	h 5		
Capture	<	Apr.				.017		2		
🔍 Search 🛛 🕨		S	М	Т	W	Т	F	S		
S Network			27	28	29	30	31	1		
\rm Alarm			3	4	5	6	7	8		
			10	11	12	13	14	15	6	
Device		16	17	18	19	20	21	22		
System System		23	24	25	26	27	28	29		
🐣 Advanced		30	1		3		5			
0 Shutdown	Star	t Time	00:00:00 7		End Time 23:59:59 🔞					
	Spli	t-screen	s 4	9 🗸	Pla	y 10				
🗊 Swann.								_		
									Close	

QuickReview allows you to play multiple normal recordings and motion events simultaneously from a single channel. With normal and event recordings, the video is divided evenly depending on the split-screen mode that has been selected. For example, if the video is an hour long and you have selected Split-screens x 4, each split-screen will play for 15 minutes.

1. Click the drop down menu to select the month that you would like to search on.

2. Click the drop down menu to select the year that you would like to search on.

3. Click the drop down menu to select the camera that you would like to display for playback (only one camera can be selected).

4. Click the drop down menu to select the video type that you want to search on. In most circumstances "Motion" would be selected but you can leave this on "All" if you want to search for all video types. Adjust accordingly.

5. Click the "Search" button to filter your search criteria.

6. The orange triangles indicate there are recordings on those particular dates that match your search criteria. Click on a date that you want to select for playback.

7. You can leave the default selection or you can click the dialogue box to enter a specific start time.

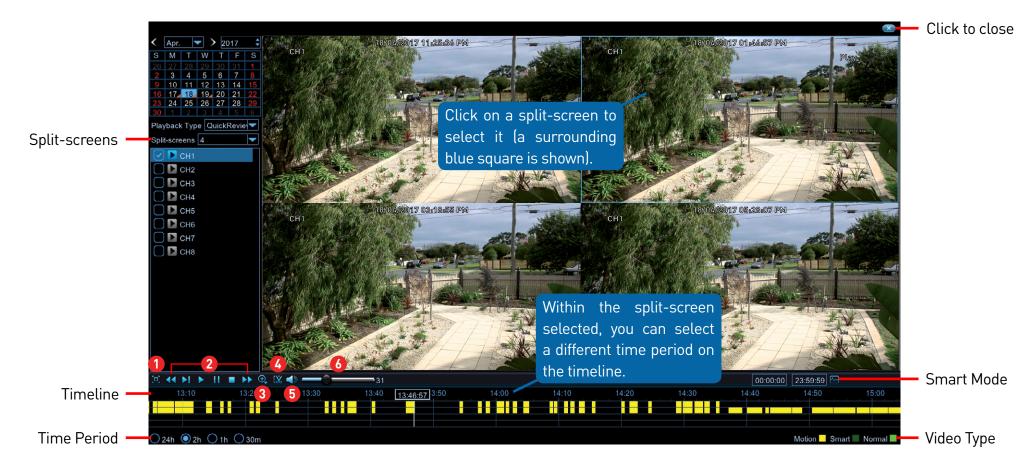
8. You can leave the default selection or you can click the dialogue box to enter a specific end time.

9. Up to eight split-screens can be enabled for playback.

10. Click the "Play" button to start playing.

(continued on next page)

QuickReview Playback



Split-screens: Click the drop down menu to select the preferred split-screen mode for playback. **Time Period:** This represents the time period that is visible. Click on a different time period to zoom in for precise control.

1. Click this to hide the playback interface so you can maximise your viewing area. Right-click to restore.

2. From left to right, these are your reverse, slow motion, play, pause, stop and fast forward controls. Subsequent presses of the reverse, slow motion and fast forward buttons will increase the speed of each action.

3. Select a particular split-screen, click this button then click and drag an area to get a close up view. Use the picture-in-picture screen to select a different area to view. Right-click to exit. (continued on next page)

QuickReview Playback



4. This button allows you to edit the video by setting mark in and out points on your video which you can then copy to a USB flash drive. When you have selected a video to play, press this button at the mark in point and press it again at the mark out point. Press the button again to save (a disk icon will be shown). For the backup type, leave the default selection or change to AVI or MP4 for wider playback compatibility on your computer (we recommend VLC media player software, you can download a free copy from <u>www.videolan.org</u>). Insert a USB flash drive to your DVR then click "Save". You have the choice of formatting the flash drive or creating a new folder if required. Click "OK" to save then click "Close" when finished.

5. Click this button to mute or unmute the audio.

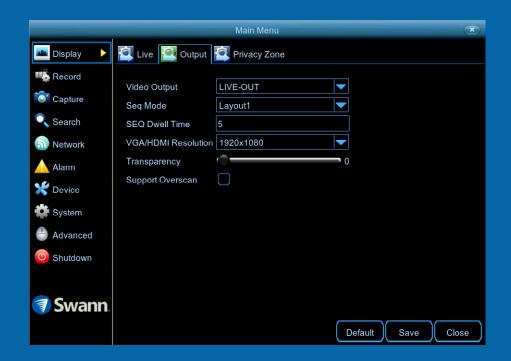
6. Click and hold the slider left or right to change the volume level.

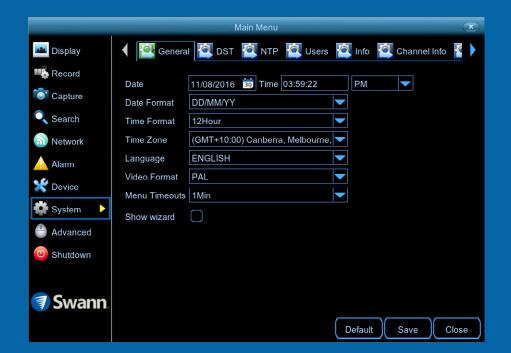
Video Type: Indicates the video type on the timeline.

Smart Mode: This mode allows you to define a specific area of the video which then makes it easier to find what you are searching for (see page 42 - <u>Smart Mode</u>).

System Configuration

The options available give you complete control on how your DVR is configured and how it operates. Some of the options such as display resolution, time zone, email configuration, Daylight Saving and password creation are configured during the Startup Wizard. For experienced network users, your DVR provides options that can be configured to suit your particular requirements. You can also perform a firmware upgrade when available.





Display: Output

		Main Menu	×
😐 Display 🛛 🕨	🞑 Live 🧖 Output	🔍 Privacy Zone	
🐝 Record	Video Output Seq Mode	LIVE-OUT	
🔍 Search		5	
Network	VGA/HDMI Resolution	1920x1080	
\rm Alarm	Transparency Support Overscan		0
X Device			
🐣 Advanced			
(U) Shutdown			
🗊 Swann.		ſ	Default Save Close

• Don't forget to click "Save" to apply settings.

• Click the "Default" button to revert back to default settings.

• Click the "Close" button to exit the Main Menu.

Video Output: This option cannot be changed.

Seq Mode: Select how many video channels you would like to display when your DVR is in sequence mode. You can select from one, four or six cameras to display at a time.

Seq Dwell Time: Enter in seconds the maximum length of time you would like to display a video channel in sequence mode before displaying the next video channel (300 seconds is the maximum).

VGA/HDMI Resolution: Select a resolution that is suitable for your TV. 1920 x 1080 (1080p) resolution will give you the best quality. Make sure your TV supports the resolution selected. For audio out via HDMI, select 1280 x 720 (720p) or 1920 x 1080 (1080p).

Transparency: Click and hold the slider left or right to change how transpar-

ent the Menu Bar and Main Menu will appear on-screen. Adjust accordingly.

Support Overscan: Is mainly used on older television sets to display the entire viewable area correctly on-screen. It does this by cutting off the edges of the picture. This is not required for modern Plasma and LCD TVs as the image is digitally processed to display the correct aspect ratio.

Click for contents

Network: Network

As SwannLink Peer-to- Peer technology is uti-	Display	Network 🖾 Email	Main Menu		on't forget to click "Save" oply settings.
lised to communicate with your network and	Record Capture Search	O PPPoE Client Port 09000	DHCP HTTP Port	O Static	ick the "Default" button to rt back to default settings.
mobile device, config- uration of the network settings is not required.	Network	IP Address 192.168.00 Subnet Mask 255.255.25 Gateway 192.168.00			ick the "Close" button to the Main Menu.
If you have networking expertise and require	🗩 Device	DNS1 192.168.00 DNS2 008.008.00			
specific settings for your network, your DVR does have the ability to	 Advanced Shutdown 				
change them.	🗊 Swann		ſ	Default Save Close	

PPPoE: Allows your DVR to be directly connected to a DSL modem. When selecting this option, you need to input the user name, password and DNS settings for your internet service provider.

DHCP (Dynamic Host Configuration Protocol): Your router will automatically assign an IP address to each device connected to your network. This is enabled by default.

Static: All devices on your network have their IP address manually defined.

Server Port: This port number is used by your DVR to send information through. The default number will work in most situations.

HTTP Port: This port number is used to log into your DVR from a remote location. The default number will work in most situations.

The following five options can be changed when selecting Static:

IP Address: Each device on your network must have a unique IP address. A typical address might be "192.168.1.24" or something similar.

Subnet Mask: This allows the flow of network traffic between hosts to be segregated based on a network configuration. A typical address might be "255.255.255.0" or something similar.

Gateway: This allows your DVR to connect to the internet. This is typically the same IP address as your modem or router.

DNS (Domain Name System)1/2: Input the DNS settings for your internet service provider.

(continued on next page)

Network: Network

			Main Menu				×
😐 Display	Network	🔍 Email	🔍 Email Schee	lule 🞑 DD	NS 횥 RTS	SP	
Record			O DHCP		◯ Static		
🄯 Capture	Client Port 09	9000		HTTP Port	00085		
🔍 Search							
Network	IP Address						
INELWOIK	Subnet Mask						
🔔 Alarm	Gateway						
💥 Device	DNS1						
System	DNS2	008.008.00	08.008				
Advanced							
(U) Shutdown							
🧊 Swann.	UPNP Disab	le 🔻					
					Default	Save	Close

• Don't forget to click "Save" to apply settings.

• Click the "Default" button to revert back to default settings.

• Click the "Close" button to exit the Main Menu.

UPNP: A network protocol designed to allow network connected devices to automatically configure the router for the purposes of remote access. This is not required when using UID to access your DVR via the HomeSafe View app. You can enable UPNP if required.

Network: Email

The following email providers are recommended - Gmail <u>gmail.com</u>, Outlook <u>outlook.com</u> and Yahoo <u>yahoo.com</u>. Select your preferred provider then on your computer, go to the relevant website to create an account. When finished, input those details here.

		Main Menu	×
📠 Display	🔍 Network	🚰 Email 🔯 Email Schedule 🛛 DDNS 🖉 RTSP	
Record	Email	Enable	
Capture	Encryption	Auto	
🔍 Search	SMTP Port	00465	
🕤 Network 🔹 🕨	SMTP Server	smtp.gmail.com	
Alarm	User Name	mydvr	
	Password	12345 🖌 show	
💥 Device	Sender	mydvr@gmail.com	
System	Receiver1	my@emailaddress.com	
🐣 Advanced	Receiver2		
0 Shutdown	Receiver3		
Chataoun	Interval	3 Min Test Email	
🗊 Swann.			
		Default Save	Close

• Don't forget to click "Save" to apply settings.

• Click the "Default" button to revert back to default settings.

• Click the "Close" button to exit the Main Menu.

Why do I need to create an email for my DVR? So your DVR can send you email alerts and to send you a password reset request if you have forgotten your password.

Email: Click "Enable" to input your email details.

Encryption: Leave this on "Auto". This ensures your DVR will always use the correct encryption for your email provider.

SMTP Port: Gmail input 00465. Outlook input 00587. Yahoo input 00465.

SMTP Server: Gmail input "smtp.gmail.com". Outlook input "smtp.live.com". Yahoo input "smtp.mail.yahoo.com".

User Name: Input the email user name for the account you created.

Password: Input the email password for the account you created. Click the "show" checkbox if you would like to hide your password.

Sender: Input the email address for the account you created.

Recipient: Input the email address that you want to send email alerts to.

Interval: This is the length of time that must elapse after your DVR sends an email alert before it will send another. Adjust accordingly.

Test Email: Click to verify the information is correct then click "OK". A message will appear if the test has been successful. Click "OK" to continue.

If the test email is not in your inbox, check your junk or spam folder.

Email not working? Please try the following:

1. Check that your email and password are correct.

2. Located at the back of your DVR, you should see one or two flashing LEDs (above the Ethernet port). If you don't see this, disconnect then reconnect the Ethernet cable or try a different port on your router.

3. Search "less secure apps" at <u>support.swann.com</u>.

Network: Email Schedule



• Don't forget to click "Save" to apply settings.

• Use the "Copy" function to apply all settings to the other cameras.

• Click the "Default" button to revert back to default settings.

• Click the "Close" button to exit the Main Menu.

Motion: If email alerts have been enabled for motion detection, you can change the schedule on when your DVR can send those alerts. For example, you may only want to receive motion alerts during the day but not in the evening. A different schedule can be created for each camera.

Exception: There are three event types that your DVR will detect as an exception - no space left on the hard drive, a hard drive error and if one or more channels has lost the feed from its camera (see page 65 - <u>Advanced: Events</u>). It's recommended to leave the default schedule in place in case there is an exception that you need to be alerted to.

Channel: Select a camera that you would like to edit.

Each square represents 30 minutes. Using the mouse, click on a particular square to change or click and drag the mouse over the squares correspond-

ing to your desired time period.

In the above example, a Motion email alert schedule has been created for 08:00 a.m. to 07:00 p.m. Motion alerts outside of these times will not be emailed.

Network: DDNS

Prior to developing our SwannLink Peer-to-	Main Menu Image: Display Image: Display	 Don't forget to click "Save" to apply settings.
Peer technology, our SwannDNS service was	Image: Record DDNS Enable Image: Capture Server SWANNDVR Image: Search Domain homedyr456	 Click the "Default" button to revert back to default settings.
used to connect to your DVR remotely. This ser- vice is still active and we	Network User homedvr456 Alarm Password	 Click the "Close" button to exit the Main Menu.
recommend creating an account as a means of backup.	Device Test DDNS System Advanced	
buckup.	Omega Shutdown	

Go to <u>www.swanndvr.com</u> and click the "Registration" button. Follow the prompts to create your account.

DDNS: Click the drop down menu to enable.

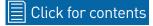
Server: SWANNDVR is automatically selected.

Domain: Enter the domain name that is hosted on your account. For example, (username.swanndvr.net).

User: Enter the username (host name) for your account.

Password: Enter the password for your account.

Test DDNS: Click this button then click "OK" to confirm your account details. After a short moment you will see "DDNS test is successful!". Click "OK" to close.



Network: RTSP

The RTSP function can be used to stream a	Main Menu Image: Display Image: Display	 Don't forget to click "Save" to apply settings.
camera's live view image to your computer, using video streaming soft- ware such as VLC media	Record RTSP Enable Enable Capture Verify Enable Search RTSP Port 00554 Network RTSP UserName admin RTSP Password ******	 Click the "Default" button to revert back to default settings. Click the "Close" button to
player. Multiple camer- as can be streamed at the same time.	Alarm Instruction: Instruction: Instruction: System A:01(ch1),02(ch2) B:0(main stream),1(sub stream)	exit the Main Menu.
	Advanced Shutdown Swann.	

The following instructions are for the VLC media player software. You can download a free copy from (<u>www.videolan.org</u>). After download, double click the file then follow the on-screen instructions for installation.

RTSP Enable: Click the drop down menu to enable.

Verify: Leave the default selection if you would like VLC to verify your username and password for access, otherwise click the drop down menu to disable.

RTSP Port: The default port number will work in most circumstances.

RTSP User Name: This is the user name that you enter if verification has been enabled. You can leave the default name or you can enter a new name.

RTSP Password: Enter a new password if verification has been enabled.

1. On your computer, load the VLC media player software. Click "Media" then click "Open Network Stream".

2. Enter the IP address of your DVR (on your DVR click "Network" in the Main Menu to display the IP address) into VLC. The following is an example of what you need to enter - (rtsp://192.168.99.160:554/ch01/0).

rtsp://192.168.99.160: This is the IP address of your DVR.

554: This is the RTSP port of your DVR.

ch01: This represents channel 1. To display channel 2 enter ch02, etc.

0: This represents Mainstream. For Substream enter 1 instead.

3. Click "Play" then enter the user name and password (if required). You will now see a live view image from your camera.

System: NTP

The NTP (Network Time	Main Menu 💌	• Don't forget to click "Save"
Protocol) function al-	Display	to apply settings.
lows your DVR to auto- matically sync its clock with a time server. This gives it the ability to con- stantly have an accurate	Image: NTP Enable Image: Capture Server Address Image: Search Update Now Image: Network Image: Alarm	 Click the "Default" button to revert back to default settings. Click the "Close" button to exit the Main Menu.
time setting (your DVR will periodically sync time automatically).	 ★ Device ★ System ▶ ▲ Advanced ④ Shutdown 	
	Swann.	

Default

Save

Close

NTP: This is enabled by default.

Server Address: The default time server will work in most circumstances. If for some reason the DVR's clock is not syncing, select a different time server.

Update Now: If for some reason the date and time are not correct, click this button to update then click "OK" to continue.

Device: HDD

		Main Menu		×
🕮 Display	MDD 管	S.M.A.R.T. 🔍 PTZ		
Record				
👌 Capture	No.	State	Free/Total	Select
Search	1*	FULL	0M/931G	\bigcirc
🔊 Network				
🛕 Alarm				
💥 Device 🕨 🕨				
System				
🐣 Advanced				
(0) Shutdown				
🦪 Swann.	Overwrite A	uto	 Format 	HDD
			Default	Save Close

• Don't forget to click "Save" to apply settings.

• Click the "Default" button to revert back to default settings.

• Click the "Close" button to exit the Main Menu.

This function gives you the option of formatting your DVR's hard drive, and it will be listed here for selection.

Overwrite: This instructs your DVR to overwrite the oldest video files as the hard drive becomes full. You also have the option of disabling this or selecting the amount of days events are kept before they are overwritten. It's recommended to leave the default selection as this prevents your DVR from running out of storage space.

Format HDD: Click the checkbox to select the hard drive then click this button to format. A message will appear noting that all data will be erased. Click "OK" to continue.

Please note: From time to time, we recommend that you format the hard drive. This ensures that your DVR maintains system integrity.

Connect a USB flash drive to copy events that you want to save. Remember, formatting the hard drive erases all your recordings.

*If a new hard drive has been installed inside your DVR, you need to format the drive before it can be used.

Device: S.M.A.R.T.

This function can be used to display technical information on the hard drive installed inside your DVR. You can also perform a test (there are three types available) to evaluate and detect potential drive errors.

			Main M	enu					×
🚨 Display	F	HDD 🥂 S.M.	A.R.T. 🎑 PT2	Z					
Record		Whole Evaluation	on not passed, co	ontinue to	use the	disk			
Capture	HDI	D ID:	Disk 1		Self-c	heck Ty	pe:	Conveyand	e 🔻
Search		f-check State: MP(°C):	Not detected		l Itility	Time(d):	· 1	7	
Network		ole Evaluation:	PASSED			Check			
🛕 Alarm	S.M	I.A.R.T. Info:							
Device 🕨 🕨		D Attrib	ute Name	Status	Flags	Value	Worst	Threshold	I R
System	0x	1 Raw Rea	ad Error Rate	OK	b	98	98	16	
System	0x	2 Throughpu	ut Performance	OK	5	100	100	54	
🝵 Advanced	0x	3 Spin	Up Time	OK	7	141	141	24	167 (/
O Shutdown	0x	4 Start S	Stop Count	OK	12	100	100	0	
	0x	5 Realloca	ted Sector Ct	OK	33	100	100	5	
	0x	7 Seek	Error Rate	OK	b	100	100	67	
🛛 Swann.	0x	8 Seek Time	e Performance	OK	5	100	100	20	, [†]
								Save	Close

• Don't forget to click "Save" to apply settings.

• Click the "Close" button to exit the Main Menu.

Whole Evaluation not passed, continue to use the disk: If for some reason the hard drive has developed a fault (such as one or more bad sectors), you can instruct your DVR to continue saving to the drive.

Self-check Type: There are three types available:

Conveyance: This is a very quick test that verifies the mechanical parts of the hard drive are working.

Short: This test verifies major components of the hard drive such as read/ write heads, electronics and internal memory.

Long: This is a longer test that verifies the above as well as performing a surface scan to reveal problematic areas (if any) and forces bad sector relocation.

When performing a test, your DVR will continue to work as normal.

In most circumstances, the information here will not be needed for general use of your DVR, however one of our Swann Helpdesk & Technical Support staff may ask you to access this if you call for assistance.

System: General

		М	ain Menu					×
🚨 Display	Genera	I 🞑 DST	🔍 NTP	🔍 Users	🚉 In	fo 讆 C	hannel Info	*
Record	Date	11/08/2016	📆 Time	03:59:22		л	▼.	
Search	Date Format Time Format	DD/MM/YY 12Hour						
🔊 Network	Time Zone	(GMT+10:00) Canberra	, Melbourne,				
🛕 Alarm	Language	ENGLISH						
💥 Device	Video Format Menu Timeouts	PAL 1Min						
🗱 System 🕨 🕨	Show wizard							
🐣 Advanced								
0 Shutdown								
🧃 Swann.					Defa	ult	Save	Close

• Don't forget to click "Save" to apply settings.

• Click the "Default" button to revert back to default settings.

• Click the "Close" button to exit the Main Menu.

Date: Click the calendar icon to change the date.

Time: Click the dialogue box to change the time. Click the drop down menu to select AM or PM.

As NTP is enabled by default, the date and time should always remain accurate.

Date Format: Click the drop down menu to select the preferred date format.

Time Format: Click the drop down menu to select the preferred time format (the playback interface will display in 24-hour time only).

Time Zone: Select a time zone relevant to your region or city.

Language: Select a language you would like the system menus to be displayed in. Multiple languages are available.

Video Format: Select the correct video standard for your country. USA and Canada are NTSC. UK, Australia and New Zealand are PAL.

Menu Timeouts: Click the drop down menu to select the time your DVR will exit the Main Menu when idle. You can also disable this by selecting "OFF" (password protection will be temporarily disabled).

Show Wizard: Click the checkbox if you would like to display the Startup Wizard each time you turn on or reboot your DVR.

Click for contents

System: DST

The DST (Daylight Saving Time) function allows you to select the amount of time that Daylight Saving has increased by in your particular time zone.

		Main Menu		×
🚨 Display	📢 🔯 General [DST 🎑 NTP	🗐 Users 🔋 Info	o 🔯 Channel Info 🍸 🕨
Record	DST	Disable		
Capture	Time Offset	1Hour		
Network	Daylight Saving Time Start Time	Week	d 🔽 Sun. 🔽	02:00:00
人 Alarm	End Time	Nov.		02:00:00
🗶 Device				
System 🕨				
Advanced				
(U) Shutdown				
🗊 Swann.				
			Defau	Ilt Save Close

• Don't forget to click "Save" to apply settings.

• Click the "Default" button to revert back to default settings.

• Click the "Close" button to exit the Main Menu.

DST: If Daylight Saving applies to your time zone, click the drop down menu to enable.

Time Offset: Select the amount of time that Daylight Saving has increased by in your time zone. This refers to the difference in minutes, between Coordinated Universal Time (UTC) and the local time.

Daylight Saving Time: You can select how Daylight Saving starts and ends:

Week: Select the month, a particular day and time when Daylight Saving starts and ends. For example, 2 a.m. on the first Sunday of a particular month.

Date: Select the start date (click the calendar icon), end date and time when Daylight Saving starts and ends.

System: Users

		Main Menu		X
🚨 Display	General	🚺 dst 🛯 🖉 ntp	<u> U</u> sers 🖉 Info	🔄 🎑 Channel Info 🥤 🕨
Record	No.	User Name	Level	Enable
Capture	1	admin	ADMIN	Enable
🔍 Search	2	user1	USER1	Disable
S Network	3	user2	USER2	Disable
🛕 Alarm	4	user3	USER3	Disable
X Device	5	user4	USER4	Disable
System	6	user5	USER5	Disable
Advanced	7	user6	USER6	Disable
Advanced Shutdown				
🦪 Swann.				Edit Close

• Don't forget to click "Save" to apply settings.

• Click the "Default" button to revert back to default settings.

• Click the "Close" button to exit the Main Menu.

To change your DVR's password, click the "Edit" button. The password has to the be a minimum of six characters and can contain a mixture of numbers and letters. Enter your new password again to confirm.

Additional user accounts can also be enabled:

- **1.** Click the "Edit" button.
- 2. Click the drop down menu to enable.
- **3.** Enter a user name and password.

4. Click the "Save" button, enter the admin password then click "OK" to confirm.

To change permissions, click the "Permission" button then select which options you would like to enable. Click the "All" button to select all options. Click

\blacksquare Click for contents

the "Save" button then click "OK" to close.

Advanced: Maintain

	Main Menu	×
🚨 Display	Maintain 🔯 Events 🔄 Auto Upgrade	
Record Capture	Default User admin 🔽 Auto Reboot Enable 🔽	
🔍 Search	Reboot Every Week 🔽 Sun. 🔽 12:00 AM	
🔊 Network	Update Load Default	
🛕 Alarm	Load Settings Save Settings	
💥 Device		
System		
🐣 Advanced 🕨		
🕛 Shutdown		
🥑 Swann.		Close

• Don't forget to click "Save" to apply settings.

• Click the "Default" button to revert back to default settings.

• Click the "Close" button to exit the Main Menu.

Default User: Admin is the default user account. If multiple user accounts have been created, click the drop down menu to disable.

Auto Reboot: It is recommended to leave this enabled, as it maintains the operational integrity of your DVR.

Reboot: Choose an appropriate day and time to reboot your DVR.

Update: Click this button to upgrade the firmware from a USB flash drive. Select the firmware file then "OK" to confirm. When the firmware upgrade has completed, your DVR will reboot automatically.

Load Settings: Click this button to import a configuration file containing all the settings that you have customised.

Load Default: Click this button to restore factory default settings.

Save Settings: Click this button to export a configuration file containing all the settings that you have customised.

Advanced: Events

Whenever there is an				Main Menu			×	
event or if your DVR dis-		🚨 Display	🞑 Maintain 🥻	Events 🔯 Auto Upgrade				
plays abnormal behav- iour, you can be alerted		Record Capture	Event Type Enable	No Space on Disk				
to in multiple ways such		Search	Show Message Send Email) (
as receiving an email, displaying a message		Setwork ▲ Alarm	Send Email Buzzer	OFF				
on-screen and activat-		💥 Device						
ing its internal buzzer. There are three event		Advanced >						
types that your DVR will detect as an exception		0 Shutdown						
	,	🧊 Swann.						
					Default	Save	Close	

Don't forget to click "Save" to apply settings.

Click the "Default" button to revert back to default settings.

Click the "Close" button to exit the Main Menu.

Event Type: Select the event type that you would like to change.

Enable: Click the checkbox if you would like to disable alerts for the event selected.

Show Message: Click the checkbox if you like to disable the on-screen message for the event selected.

Send Email: Click the checkbox if you would like to disable email alerts for the event selected.

Buzzer: Click the drop down menu and select the time period for the internal buzzer to activate for the event selected.

Advanced: Auto Upgrade

	Main Menu 💌	
🕮 Display	🔯 Maintain 🔄 Events 🞑 Auto Upgrade	
Record	Auto Upgrade Enable	
Capture		
Search	Check for update from internet	
Network Alarm		
	Check now	
System		
🐣 Advanced 🕨		
0 Shutdown		
🗊 Swann.		
	Default Save Close	

• Don't forget to click "Save" to apply settings.

• Click the "Default" button to revert back to default settings.

• Click the "Close" button to exit the Main Menu.

Auto Upgrade: By default, your DVR will automatically download and install new firmware when available. Click the drop down menu if you would like to disable this feature.

Check for update from internet: By default, your DVR will automatically check and alert you if new firmware is available for download. Click the checkbox if you would like to disable this feature.

Check now: Click this button to check if new firmware is available. If new firmware is available, follow the on-screen instructions.

System Status

The various status tabs give you an overview of the various settings and options that have been selected for your DVR to function. Each action that your DVR performs as well as events detected are logged, which you can search and view. If you call our helpdesk for assistance, our staff may ask you to access these tabs to assist them in solving any technical issues that you may be having.



Main Menu 💌								
🚢 Display	📢 🔯 Ger	neral 讆 DS	т 讆 ит	'P 😫 Users 讆 Info 🤷	Channel Info [🕨 🕨			
Record	Observal	A I!	01-1-	Main atus ana	Quita straig			
Capture	Channel CH1	Alias CH1	State Enable	Mainstream 1280x 720, 25Fps, 2048Kbps	Substrea 352x 288, 4Fps			
🔍 Search	CH2	CH2	Enable	1280x 720, 25Fps, 2048Kbps	352x 288, 4Fps			
Network	СНЗ	CH3	Enable	1280x 720, 25Fps, 2048Kbps	352x 288, 4Fps			
🛕 Alarm	CH4	CH4	Enable	1280x 720, 25Fps, 2048Kbps	352x 288, 4Fps			
🗶 Device	CH5	CH5	Enable	960x1080, 30Fps, 2048Kbps	352x 240, 4Fps			
System	CH6	CH6	Enable	960x1080, 30Fps, 2048Kbps	352x 240, 4Fps			
Advanced	CH7	CH7	Enable	960x1080, 30Fps, 2048Kbps	352x 240, 4Fps			
Shutdown	CH8	CH8	Enable	960x1080, 30Fps, 2048Kbps	352x 240, 4Fps			
Chataowin								
🗊 Swann.	•				,			
					Close			

System: Info

Displays technical information about your DVR as well as your device ID and QR code. If you call our helpdesk for assistance, our staff may ask you to access this tab to assist them in solving any technical issues that you may be having.



• Don't forget to click "Save" to apply settings.

• Click the "Close" button to exit the Main Menu.

Device Name: Click the dialogue box to rename your DVR (if required).

MAC Address: You can use this as a recovery password if you have forgotten your current password.

If you call our helpdesk for assistance, our staff may ask you to access this tab to assist them in solving any technical issues that you may be having.

System: Channel Info

			Main Mer	nu	×
🚨 Display	📢 🞑 Ge	neral 🞑 DS	ד 🞑 א	"P 🞑 Users 🞑 Info 🥘	Channel Info 👔 🕨
Record					
Capture	Channel	Alias	State	Mainstream	Substrea
Capitale	CH1	CH1	Enable	1280x 720, 25Fps, 2048Kbps	352x 288, 4Fps
Search	CH2	CH2	Enable	1280x 720, 25Fps, 2048Kbps	352x 288, 4Fps
Network	СНЗ	CH3	Enable	1280x 720, 25Fps, 2048Kbps	352x 288, 4Fps
\rm Alarm	CH4	CH4	Enable	1280x 720, 25Fps, 2048Kbps	352x 288, 4Fps
💥 Device	CH5	CH5	Enable	960x1080, 30Fps, 2048Kbps	352x 240, 4Fps
System	CH6	CH6	Enable	960x1080, 30Fps, 2048Kbps	352x 240, 4Fps
Advanced	CH7	CH7	Enable	960x1080, 30Fps, 2048Kbps	352x 240, 4Fps
	CH8	CH8	Enable	960x1080, 30Fps, 2048Kbps	352x 240, 4Fps
U Shutdown					
	•				Þ
🗊 Swann.					
					Close

Displays the Mainstream and Substream settings used for each camera connected.

If you call our helpdesk for assistance, our staff may ask you to access this tab to assist them in solving any technical issues that you may be having.

• Click the "Close" button to exit the Main Menu.

System: Record Info

				Main Menu			×
📠 Display		🔍 DST	🔍 NTP 🤷	Users 🎑 Info 👔	🚺 Channel Inf	o [Record In	fo
Record							
Capture		Channel	Record State	Stream Type	FPS	Bitrate	R
Capture		CH1	Disable	Video Stream	30Fps	2048Kbps	9
Search		CH2	Disable	Video Stream	30Fps	2048Kbps	ç
Network		CH3	Enable	Video Stream	30Fps	2048Kbps	1:
🛕 Alarm		CH4	Disable	Video Stream	30Fps	2048Kbps	g
💥 Device		CH5	Disable	Video Stream	30Fps	2048Kbps	1:
🔹 System 🔹 🕨		CH6	Disable	Video Stream	30Fps	2048Kbps	1:
A		CH7	Disable	Video Stream	30Fps	2048Kbps	ç
՝ Advanced		CH8	Disable	Video Stream	30Fps	2048Kbps	ç
Shutdown Swann.	< ■						
3 Storan III.							Close

Displays the recording settings for each camera connected.

If you call our helpdesk for assistance, our staff may ask you to access this tab to assist them in solving any technical issues that you may be having.

• Click the "Close" button to exit the Main Menu.

Search: Log

Each action that your		Main Menu	×
DVR performs as well	📠 Display	🚰 General 🙋 Events 🞑 QuickShot 👰 QuickReview 🧖 Log	
as events detected are logged. These log files can be searched, viewed and copied to a USB flash drive for safe keep- ing.	Image: Record Image: Capture Image: Capture Image: Search Image: Sea	Start Date 19/04/2017 10 Start Time 00:00:00 End Date 19/04/2017 10 End Time 23:59:59 Log Type All Search Channel Type TIME CON. RECOME	RD Ilaybac
	🔹 System 🎱 Advanced		
	U Shutdown		
	🧊 Swann.	< 1/1 1 Backup	>> Close

Start/End Date: Click the calendar icon to select the month, year and date that you would like to search on.

Start/End Time: You can leave the default selection or you can click the dialogue box to enter a specific start and end time.

Log Type: Leave the default selection or click the drop down menu to select a specific action that you would like to search for.

Search: Click this to display a list of log files that match your search criteria. Double-click a file to display information about that log.

Backup: Click this to copy the log files that match your search criteria. Insert a USB flash drive to your DVR then click "Save". You have the choice of formatting the flash drive or creating a new folder if required. Click "OK" to save then click "Close" when finished.

Click for contents

3D-Noise Filter: Is an enhanced form of digital noise reduction. The advancement in technology enables noise to be filtered even more effectively from the image, even in low light conditions.

50Hz: Is the mains frequency used in the UK, Australia and most European countries.

60Hz: Is the mains frequency used in the United States, Canada and some Latin American countries.

AGC (Automatic Gain Control): In low light conditions, the camera will automatically boost the gain control so that people and objects can be seen more clearly. The advantage of this technique is that your camera will produce images in much lower light conditions. The downside is that the amplification will increase the video noise visible.

AHD: Is an analogue high definition closed-circuit television video surveillance standard that uses coax cable to transmit HD video from security cameras to DVRs. AHD supports 720p and 1080p HD video resolutions.

Anti-flicker: As fluorescent lighting operates at the same frequency as your mains power, this will cause luminance flicker when viewed through the camera. Enabling the anti-flicker options available can reduce or eliminate the flicker that is visible.

Anti-smearing: A smear effect means that a bright vertical line originating from a bright light source appears in the image. This happens especially with back lighting. Enabling this allows people and objects to be seen correctly against a very bright background.

Auto DNS (Domain Name System): A service that stores domain names and translates them into internet protocol addresses. For example, www.google. com will have a DNS server address that is equivalent to 74.125.224.72. The

DNS server is automatically provided by your internet service provider.

Auto-focus: Will adjust the lens of your camera to focus on an object being viewed.

Bandwidth: In computer networks, bandwidth is used as a synonym for data transfer rate, the amount of data that can be carried from one point to another in a given time period (usually a second). Network bandwidth is usually expressed in bits per second (bps).

Bitrate: The amount of data that your DVR or NVR will use to record video. The higher the bitrate, the more space each recording will consume on the hard drive. Increasing this will also consume more bandwidth when streaming. Unit of measurement is either Mbps (megabits per second) or kbps (kilobits per second).

BLC (Back Light Compensation): Improves exposure of an object that is in front of a light source. It does this by splitting the whole image into different regions, and then applying separate exposure levels to those regions.

Brightness: This changes how light the image appears to be. Its value is different in darkness to that in daylight. For example, the lights from car head-lights appears to be brighter at night.

CDS: This allows the image to be set by the camera's light sensor. A CDS sensor is basically a resistor that changes its resistive value (in ohms) depending on how much light is shining onto the sensor.

Compound Stream: Indicates that your DVR or NVR is recording video and audio at the same time.

Contrast: This increases the difference between the blackest black and the whitest white in the image. Without contrast you wouldn't have an image because there wouldn't be any differentiation between light and dark.

Covert: The camera will detect motion and trigger your DVR or NVR to record, but you will not see an image of the camera in Live View mode.

DDNS (Dynamic DNS): Is a service that converts IP addresses into host names (a host name is a lot easier than trying to remember an IP address). It also supports dynamic IP addresses, such as those assigned by a DHCP server. This makes DDNS a good fit for home networks, which normally receives an IP address from the ISP that will change occasionally.

DHCP (Dynamic Host Configuration Protocol): Uses an appropriate server or router to enable dynamic assignment of an IP address to a device connected to the network.

Display Resolution: Is the number of pixels supported by your TV or VGA monitor or the output signal of a viewing device, e.g. your DVR or NVR.

DNS Server: Is a standard technology for managing public names of web sites and other internet domains. DNS technology allows you to type names into your web browser which your computer will automatically find the address on the internet.

DST (Daylight Saving Time): Is the period of the year when clocks are moved one hour ahead.

DualStream: A process where your DVR or NVR will record both Mainstream and Substream video at the same time.

Format: Is a command that prepares a storage device such as a USB flash drive or hard drive to hold data.

Firmware: The software that operates a discrete device (e.g. your smartphone). It is referred to in this way rather than software as it is integral to the operation of the device.

Frame Rate: The measurement of the rate that pictures are displayed to cre-

ate a video feed. The unit of measurement is frames per second (fps).

Gateway: Is a node or router that routes traffic from a device on your home network to the outside network that is providing access to the internet.

H.264+: Mass video data requires increased storage capacity. To resolve this issue, video compression technologies are used to reduce the data while maintaining image quality. H.264+ is an innovative encoding technology aimed at surveillance video.

Hardware: A physical device such as your DVR or NVR.

HDD (Hard Disk Drive): Is a storage device located inside your DVR or NVR. It is where all data is kept, saved and stored.

HTTP Port (Hypertext Transfer Protocol): This port is used to log into the web browser interface of your DVR or NVR (if available) using a web client, such as Internet Explorer.

Hue: Is somewhat synonymous to what is usually referred to as colors. By altering the hue, you can change the color mix of the image.

IP Address: The address of a device attached to the network. Each device on the network must use a unique address. IP addresses range from 0.0.0.0 to 255.255.255.255.

Live View: Is the default display mode for your DVR or NVR. Each camera connected will be displayed on-screen.

MAC Address: Is a unique identifier for network hardware. Can also be used as a super password if you have forgotten your current password.

Mainstream: Is the video stream that your DVR or NVR will display and record.

Click for contents

Mask: Is used to obscure part of your image for privacy. It can also be used to minimise false triggers when your DVR or NVR detects motion. Any area obscured won't be shown live or recorded.

Menu: Is where you control the various actions and options that are available on your DVR or NVR.

Motion Detection: Is the main method used by your DVR or NVR to detect motion and is an essential part of your security system. It does this by comparing one frame of video with the next. A certain amount of difference between these two frames is interpreted as motion.

NAS (Network Attached Storage): A network device with one or more HDDs that other network devices can use as if the storage was connected directly.

NIC (Network Interface Controller): The hardware component that allows a device to connect to a network. Both wired and wireless NICs exist for these respective purposes.

NTP (Network Time Protocol): Is used to synchronize your DVR or NVR's clock automatically with a network time server. Most time servers are on the internet.

NTSC: Is the video system used in North America, Canada and some Latin American countries. In NTSC, 30 frames are transmitted each second.

Optical Zoom: Is a true zoom feature. It allows you to zoom in (or out) on an object to get a closer view by using the camera's lens.

OSD (On-screen Display): Display information from the camera such as time, date and camera name on-screen.

Overscan: Is mainly used on older television sets to display the entire viewable area correctly on-screen. It does this by cutting off the edges of the picture. This is not required for modern Plasma and LCD TVs as the image is digitally processed to display the correct aspect ratio.

Pack Duration: Instructs your DVR or NVR to split recordings into discrete units. Each unit can be a maximum of 60 minutes in length. Your DVR or NVR will play these as one continual video.

PAL: Is the video system used in the United Kingdom, Australia and most European countries. In PAL, 25 frames are transmitted each second.

Post-record: Instructs your DVR or NVR to record for a set period of time after an event has occurred.

PPPoE (Point-to-Point Protocol over Ethernet): Is the most common method that your router uses to login to your ISP to enable your internet connection. This setting also exists on the DVR or NVR, but is only for advanced users as the configuration required is difficult to complete and requires a modem-only device (or a modem/router set to modem-only).

Pre-record: Allows your DVR or NVR to record for a number of seconds before an event occurs.

Privacy Zone: See Mask for information.

Resolution: The measure of detail that can be seen in an image. The higher the number, the greater the detail available.

RTSP (Real Time Streaming Protocol): A network protocol designed to transmit video and audio information over networks and the internet in real time.

Saturation: This alters how much color is displayed in the image. The higher the saturation, the more bright and vivid colors will appear.

Server Port: Is a logical connection place and specifically, using the internet protocol TCP/IP, the way a client program specifies a particular server program on a computer in a network.

SEQ: Puts the DVR or NVR in sequence mode. This will repeatedly cycle through each video channel for a predetermined time in Live View mode.

S.M.A.R.T. (Self-Monitoring, Analysis & Reporting Technology): This is an automatic system on modern HDDs and SSDs to detect potential drive errors before they occur.

SMTP (Simple Mail Transfer Protocol): This is used to send an outbound email (e.g. from you DVR or NVR to an email address).

SMTP Port: Is the port number used by a SMTP server to listen for email send requests. This is specified by your email provider.

SMTP Server: This is the address of the server used for SMTP. Usually in the form of a web address (e.g. smtp.gmail.com).

Software: A set of instructions that runs on a computing device.

SSID: Is the technical term for a wireless network name. When you setup a wireless network, you give it a name to distinguish it from other networks in your neighbourhood.

SSL (Secure Socket Layer): A secure method for connecting to servers. In the context of the DVR or NVR, primarily used for email server connections.

Static: When referring to IP addresses, this is where a device's IP address has been manually entered. Sometimes used on older devices without UIDs to prepare for internet access.

Static DNS: In some circumstances, your internet service provider may require you to use a static DNS instead of an auto DNS on your router.

Substream: Is the video stream that your DVR or NVR will send to remote devices via the network or internet. Video quality is reduced to make it easier to send.

Subnet Mask: Used to define which part of the IP address refers to the network location.

Time Server: Is a server that reads the actual time from a reference clock and distributes the information to its clients on the network.

Time Zone: Is a region that observes a uniform standard time for legal, commercial, and social purposes. It is convenient for areas in close communication to keep the same time.

Timestamp: Is a sequence of characters or encoded information identifying when a certain event occurred, usually giving date and time of day, sometimes accurate to a small fraction of a second.

TVI: Is a digital signal processing and transport technology for video used in HD security cameras. TVI cameras currently support 1080p video resolution using the same coaxial cabling techniques used by traditional analogue CCTV cameras.

UID (Unique Identifier): Is an alphanumeric string that is associated with a single entity within a given system. By entering your UID into the mobile app or computer software, this allows you to communicate with your DVR or NVR without having to remember IP addresses or port numbers.

UPnP (Universal Plug and Play): A network protocol designed to allow network connected devices to automatically configure the router for the purposes of remote access. Not required to be enabled when using UID.

VCA (Video Content Analysis): Is a new method for triggering recording and events. This uses the image processing system of the DVR or NVR & camera to set specific triggers for recording (such as line crossing or intrusion). This system does use more processing power, therefore it may not be available on all devices.

Video Loss: Is regarded as a potential alarm event and is considered to occur any time your DVR or NVR doesn't receive an active video signal from any one of its video inputs.

Video Quality Diagnostics: Enables your DVR or NVR to alert you if the camera has a blurred image, abnormal brightness or unwanted tint in the image due to the lighting and white balance of the camera (known as Color Cast).

Video Stream: Indicates that your DVR or NVR is recording a video stream only.

WDR (Wide Dynamic Range): Is technology to balance out images that have a large dynamic range. An example of this situation would be if an indoor camera were pointing towards a window or building entrance. The image produced by the camera during the day would be extremely washed out due to the high brightness of the incoming light.

Frequently Asked Questions

Can I play video(s) on my DVR that I have copied to a USB flash drive?

cameras connected to your DVR.

No, your DVR doesn't have the option to play video(s) from a USB flash drive. You will have to play them on your computer or mobile device.

What is the largest hard drive that I can install inside my DVR?

The largest hard drive you can install is 6TB (terabyte). We recommend that you purchase a drive that is surveillance rated such as the Western Digital Purple[™] and Seagate Skyhawk[™] range of drives.

Can I connect and record to a portable USB hard drive?

No, your DVR will only record to the internal hard drive that is installed.

Can I connect and copy videos to a portable USB hard drive?

Due to the nature of how portable USB hard drives operate, there is no guarantee that your drive, when connected to the DVR's USB port, will work. You'll have to give it a try. For backup purposes, we recommend using a USB flash drive.

How do I save video recordings that are on my DVR?

To copy video recordings to a USB flash drive, use the Search: Events function (see <u>page 44</u>).

Can I use my own email address and server instead of creating a new one?

You can providing you have the settings required for the SMTP port and server. If you don't have this, you will have to contact your internet service provider to get this information.

I've enabled the Push option on my DVR and in the HomeSafe View app but I'm not receiving notifications on my mobile device.

The Push function is only available if you have one or more thermal-sensing

Warranty Information

USA

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Australia

Swann Communications Unit 13, 331 Ingles Street Port Melbourne Vic 3207 Australia

United Kingdom

Swann Communications LTD. Stag Gates House 63/64 The Avenue S0171XS United Kingdom

Warranty Terms & Conditions

Swann Communications warrants this product against defects in workmanship and material for a period of one (1) year from its original purchase date. You must present your receipt as proof of date of purchase for warranty validation. Any unit which proves defective during the stated period will be repaired without charge for parts or labour or replaced at the sole discretion of Swann. The end user is responsible for all freight charges incurred to send the product to Swann's repair centres. The end user is responsible for all shipping costs incurred when shipping from and to any country other than the country of origin.

The warranty does not cover any incidental, accidental or consequential damages arising from the use of or the inability to use this product. Any costs associated with the fitting or removal of this product by a tradesman or other person or any other costs associated with its use are the responsibility of the end user. This warranty applies to the original purchaser of the product only and is not transferable to any third party. Unauthorized end user or third party modifications to any component or evidence of misuse or abuse of your device will render all warranties void.

By law some countries do not allow limitations on certain exclusions in this warranty. Where applicable by local laws, regulations and legal rights will take precedence.

For Australia: Our goods come with guarantees which cannot be excluded under Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to major failure.

Helpdesk & Technical Support

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NEW ZEALAND Toll Free	0800 479 266
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