



User manual

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1 INTRODUCTION

This manual describes the installation, use and basic functions of Cameramanager go!. This manual is intended for users of the Cameramanager go! solution.

Contact your point of sales for a complete overview of frequently asked questions, features and functions of Cameramanager go!

1.1 Overview of Cameramanager go!

Cameramanager go! consists of a Panasonic HD Wi-Fi camera (BL-VT164W), a cloud storage bundle and the Cameramanager application.

The box contains the following parts:

- Panasonic BL-VT164W HD Wi-Fi camera
- A 2-metre long Ethernet cable
- A quick start guide, for connecting the camera to a Wi-Fi network
- A power adapter
- Mounting material

You use the Cameramanager application on your computer, smartphone or tablet. You can either install the application on your computer or use the online Java application via our website. You can download the Cameramanager app for Android and iOS from the Google Play Store or Apple App Store respectively.

2 GETTING STARTED

We recommend that you first add the camera to the application and (if required) a Wi-Fi network. Then mount the camera at the desired location.

2.1 Connect and activate Cameramanager go!

Cameramanager go! is easy to install by following the steps below.

1. Connect the camera to the router

Remove the cover on the back of the camera. Connect the camera to the router by inserting the end of the supplied Ethernet cable into the LAN/Ethernet port of the router. Insert the other end of the cable into the LAN/Ethernet port of the camera.

2. Connect the camera to the mains

Connect the camera to the mains using the supplied adapter. When the adapter and the Ethernet cable are correctly connected, the lamp on the camera will turn green after a few minutes.

3. Install the application

Go to www.cameramanager.com/download. Download and open the installer. After opening the installer, follow the instructions on the screen. Versions are available for both Windows and Mac.

If you do not want to download the application, use our online Java application. You can read how to start the online Java application at chapter 2.2.

4. Start the application

For Windows: go to 'Start', Click 'All Programs' and select the program 'Cameramanager'. For Mac: open the 'Cameramanager' program in 'Programs'. After opening the program, enter your login details in the pop-up screen. You can obtain your login details from your point of sales. Click 'Start' to start the application.

5. Add the camera to the application

After starting the application, the main screen is displayed. The installation wizard for adding a camera opens automatically when you add a camera to your account for the first time. If the wizard does not open automatically, click 'Add new camera' at the bottom left. Add the camera by clicking 'Auto connect' behind the model of the camera concerned. The camera will be installed automatically. After installation, assign a name to the camera and leave the pop-up window open.

6. Add the camera to a Wi-Fi network

Have to hand the name of your Wi-Fi network (SSID), the communication mode, the type of encryption (WEP, WPA, WPA2, etc.) and the password when you add the camera to the Wi-Fi network..

- Click 'Configure wireless connection' in the pop-up window of the installation wizard;
- A new pop-up window opens. Some fields will be prefilled. Modify the fields by typing in the name of the Wi-Fi network (SSID), the communication mode, the type of encryption (WEP, WPA, WPA2, etc.) and the password. Click 'Save';
- Remove the Ethernet cable when the wizard indicates that you should do so. The camera now switches automatically to the connection via the Wi-Fi network.

Note: the application does not give an error message when the SSID or the password is incorrect. However, the lamp on the camera will remain orange and not turn green, approximately one minute after removing the LAN/Ethernet cable. If the lamp does not turn green, remove the power from the camera, reconnect the LAN/Ethernet cable and the power and re-enter the details for Wi-Fi .

The camera can now be used by the application. Follow the steps below to personalise the settings of the application and the camera.

7. Configure motion and infrared detection, email and push notifications

See chapter 4.8 for an explanation of this.

8. Download Cameramanager apps for smartphone and tablet

You can also use Cameramanager on your smartphone or tablet, allowing you to manage your cameras and view videos while on the move. You can download these apps from the Google Play Store and Apple App Store.

Contact your point of sales if you have any questions about the installation of the camera and the use of the Cameramanager application.

2.2 Start the online Java application

If you do not want to download the application, use our online Java application. To start this application go to www.cameramanager.com. Click 'Login to my Cameramanager' in the top right-hand corner of the window. Enter your login details in the pop-up window. Then click 'Start'. You are now in the main screen. Click 'Launch' to start up the online Java application.

You use the online Java application in the same way as the installed application.

Note: to be able to use the online Java application, the Java software must be installed. You can download Java from www.java.com.

2.3 Mount the camera

We recommend that the camera is mounted after it has been added to the application and to the Wi-Fi network. We also recommend to have the camera professionally installed. Contact your point of sales for more information about professional installation.

The Panasonic HD Wi-Fi camera can be mounted on a wall using the screws supplied in the box. When mounting the camera on a concrete wall, use plugs to hold the screws. The required plugs are not supplied. The camera can also be mounted using a bracket. Panasonic brackets or universal brackets can be used. We recommend using the König Electronic, Type: SEC-BRACK40.

2.4 Select a location for the camera

When selecting a location for the camera, consider the following:

- The motion sensors on the camera have a range of approximately 5 metres. Horizontally the camera has a range of 28 degrees (from above to below) and 71 degrees vertically (from left to right);
- If the camera cannot detect a temperature difference between an object and the ambient temperature, for instance on a warm day, it is possible that the infrared sensor is faulty;
- Ensure that the lens is unobstructed. The sensors only work when the camera has an unobstructed view;
- The camera is better able to detect objects that pass across its view than objects that move slowly towards the camera;
- The camera can only detect objects within range of the lens. When the lens is turned completely to the left, the camera will not detect objects on the right-hand side.

3 CAMERAMANAGER APPLICATION FUNCTIONALITY

You use Cameramanager go! and the Cameramanager application to view your footage and manage your cameras. The Cameramanager application offers the following functionality:

- Preferences for recordings and configuring/ changing the camera. See Chapters 4 and 5.
 - Including configuring motion and infrared detection and receiving email and push notifications.
- Watching live images. Chapter 6.
- Managing and reviewing footage. See Chapter 7

This manual explains the basic functionality of the Cameramanager application. An explanation of advanced functions and an overview of frequently asked questions can be obtained from your point of sales.

4 CONFIGURING THE CAMERA

After adding the camera to the Cameranager application, the camera is configured to the default settings. Chapter 4.1 contains a description of these settings. The settings can be personalised, tuning them to your wishes. Chapter 4.2 contains an explanation of the options, including configuring motion and infrared detection and receiving email and push notifications.

4.1 Default settings of the camera

After adding the camera to the Cameranager application, the camera is configured with the default settings. The following default settings apply for the Cameranager go! business subscription (the recommended subscription type):

Live View settings	Best image quality: 640x480
Recording settings	Recording resolution: 640x480 Compression type: H.264 Frames per second: 5 Sound recording: Off
Motion detection	Constant
Range of motion	One area on the entire camera image
Infrared detection	Off
Push notifications	Constant <i>Note: Push notifications will only be received on smartphones and tablets on which the Cameranager app has been installed and the account concerned has logged in.</i>
Email alerts	Off

You can change the default settings to match your wishes . This is explained in more detail in the following sections.

4.2 Personalise the settings

In the Cameranager application, you can easily change the camera settings per camera. This is done under the tab 'Settings'. After opening this tab, select the camera on the right-hand side of the screen for which you want to change the settings. The sections below explain which settings you can change.

4.2.1 General settings

This screen displays the main settings concerning the operation of the camera.

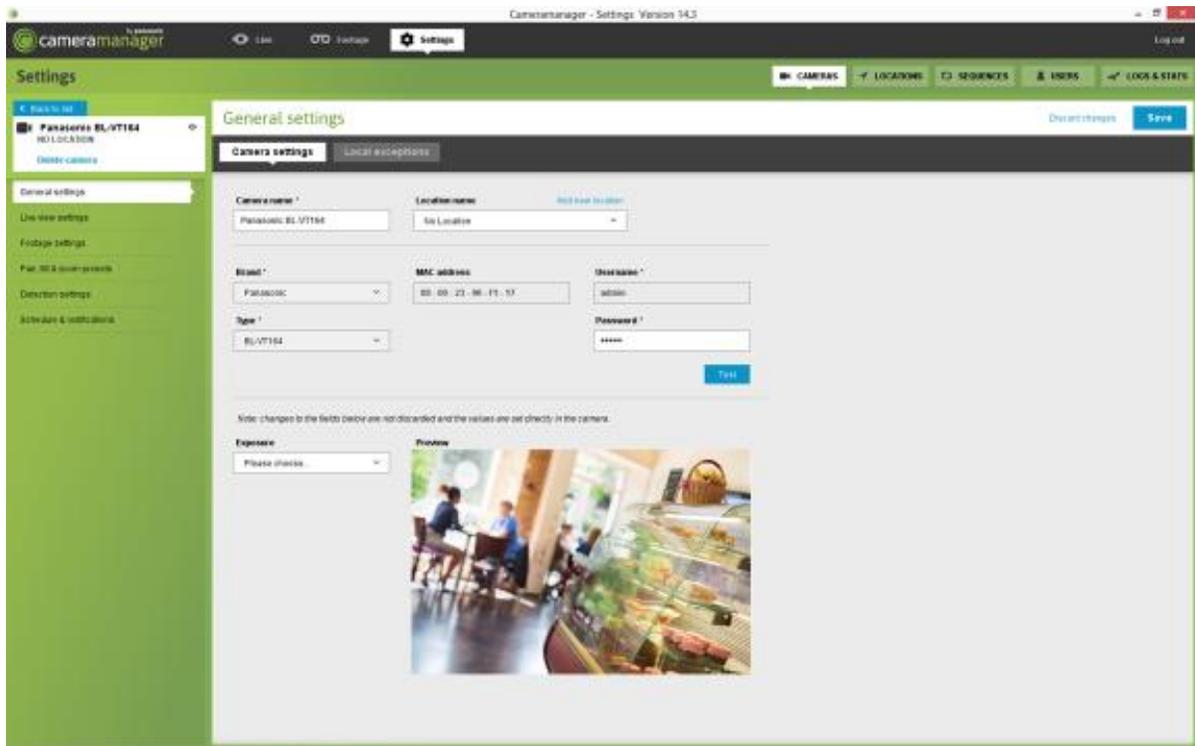


Figure 1: Overview 'General Settings'

After adding a camera using the installation wizard, (almost) all the fields in this screen will have been filled automatically. If desired, you can change the fields. After changing the fields, click 'Test' to test the new values. Then click 'Save'.

Note: We recommend that you do not change the fields 'Brand', 'Type' and 'MAC address' yourself. Doing so can result in a camera that does not work. Contact your point of sales for additional information about changing these fields.

The table below explains the fields in 'General Settings' and how to change these fields.

Field	Meaning	Change
Camera name	The name of the camera as displayed in the Live View and the footage tab	Type the desired name
Location name	The location of the camera as displayed in the Live View and the footage tab	Select the desired location in the drop-down menu. See Chapter 5.1 for more information about locations
Brand	The brand of the camera	Is automatically entered by the system. Can be changed, but this can result in a non-working camera
Type	The type number of the camera	
SSL	If this field is ticked, the Cameramanager makes a connection via an encrypted connection	Tick the field On or Off to activate or switch off the SSL connection <i>Note: SSL is only supported for cameras that were added manually and not via auto-connect. When adding the camera via auto-connect the camera is also encrypted.</i>
Global URL	The address that Cameramanager uses to make an external connection to the camera	Cannot be changed if the camera was added via auto-connect
Global port	The port that the router uses to send the camera images to the cloud	<i>Note: Changing ports and URLs can result in a non-working camera.</i>
Local URL	The URL on which the camera can be viewed locally	
Local port	The port on which the camera can be viewed locally	
User name	The user name of the camera that was set with the installation wizard	Type the desired name
Password	The password of the camera that was set during setup	Type the desired password
Automatically switch to night view	When the image is dark, the camera switches automatically to night vision	This function is not available on the BL-VT164W
Rotate image	If the camera hangs at an angle, the image can be rotated to display correctly	This function is not available on the BL-VT164W

Exposure	Select here the frequency to use for the camera lighting. Select either 50Hz or 60Hz.	Select the desired frequency in the drop-down menu.
Brightness	The brightness of the camera image.	This function is not available on the BL-VT164W
Preview	This screen displays the consequences of changing the values 'Automatically switch to night vision', 'Rotate image', 'Lighting' and 'Brightness'	N.a.

4.3 Live View settings

This screen allows you to change the Live View settings. These settings influence the quality of the live images. If you want to change the settings for recording live images, go to 4.4 Recording settings.

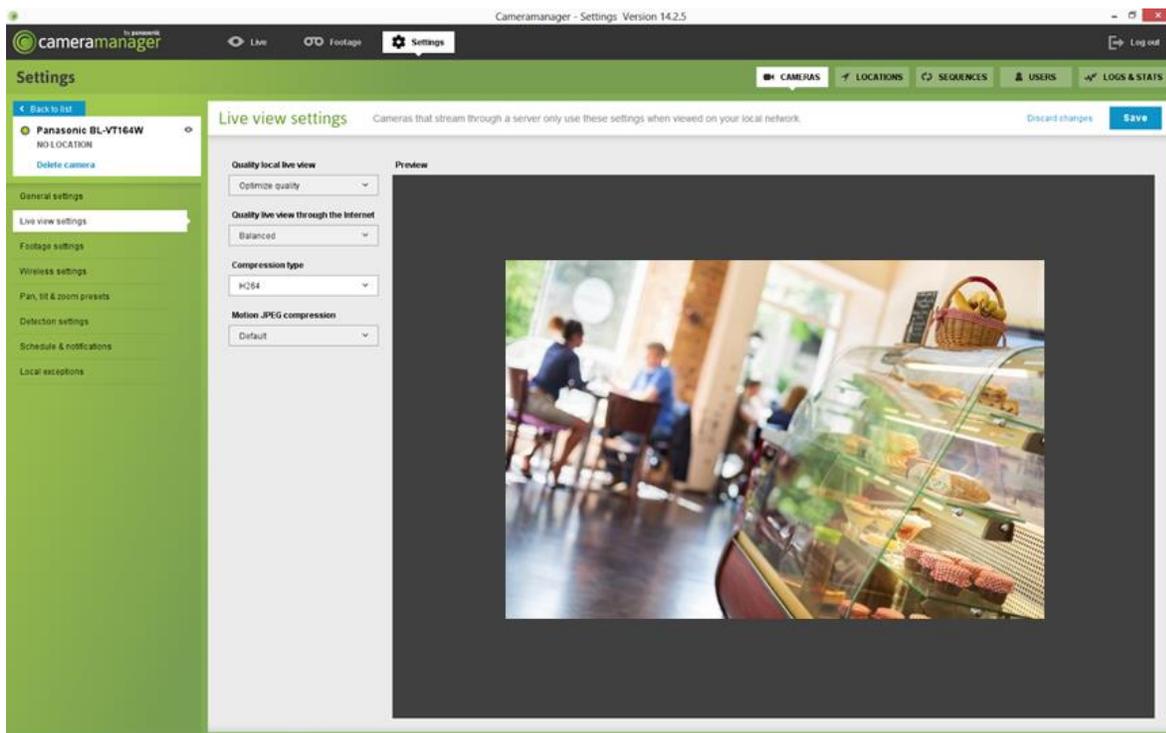


Figure 2: Overview of 'Live View settings'

The table below explains the fields in 'Live View settings' and how to change these fields.

Field	Meaning	Change
Quality local Live View	The quality of the images when viewed locally.	This function is not available on the BL-VT164W
Quality of Live View through the internet	The quality of the images when viewed via the internet.	This function is not available on the BL-VT164W
Compression type	The file type in which the images are saved.	Select the desired type in the drop-down menu.
Motion JPEG compression		This function is not available on the BL-VT164W

4.4 Footage settings

The footage settings apply to the image quality of the recorded images.

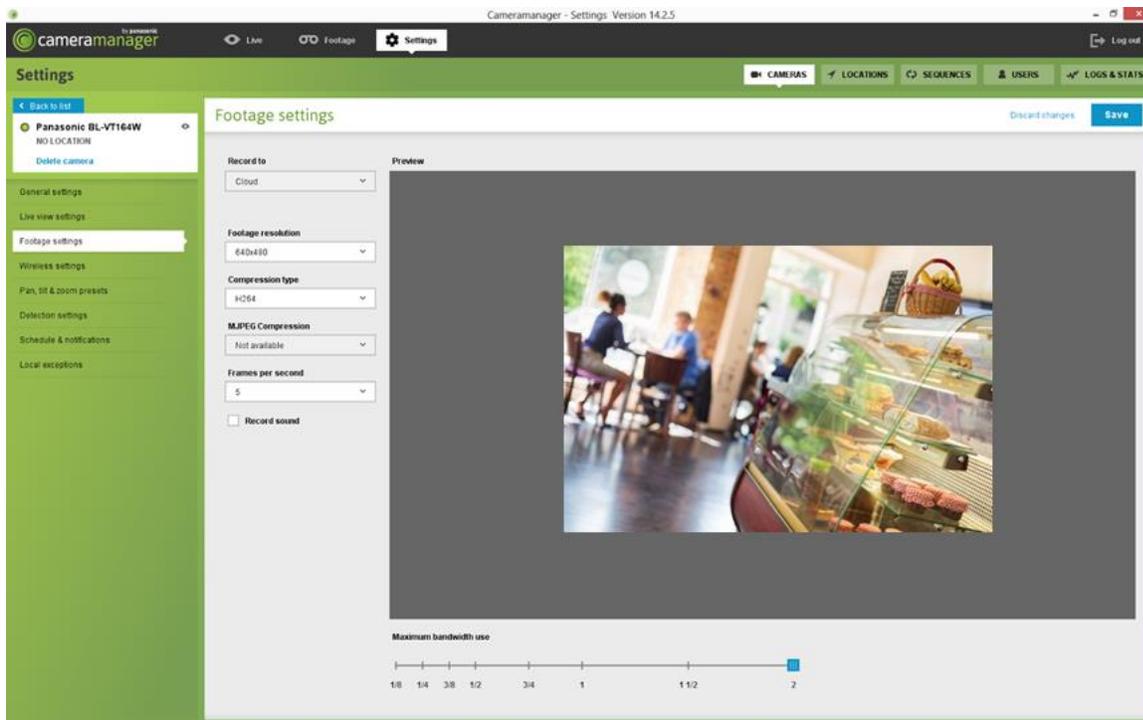


Figure 3: Overview of 'Footage settings'

The table below explains the fields in 'Footage settings' and how to change these fields.

Field	Meaning	Change
Record to	The location where the footage will be saved	Is set as standard to 'cloud'. Alternative storage is not possible for Cameramanager go!
Footage resolution	The resolution in which the footage will be saved. Select from 320x180, 320x240 or 640x360, 640x480, 800x6000 or 1280x720	Select the desired resolution in the drop-down menu.
Compression type	The file type in which the footage is saved. Select motion JPEG or H264.	Select the desired type in the drop-down menu.
MJPEG compression	The file type in which the footage is saved.	This function is not available on the BL-VT164W
Frames per second	The number of frames that are saved per second. Dependent on the chosen cloud subscription, this is 5 or 10 frames per second.	Cannot be changed
Record sound	Record sound in addition to footage using the Cameramanager go! camera.	Tick the field to On or Off to activate or stop the recording of sound

4.5 Wireless settings

This screen displays the settings that are used to use the camera on a Wi-Fi network.

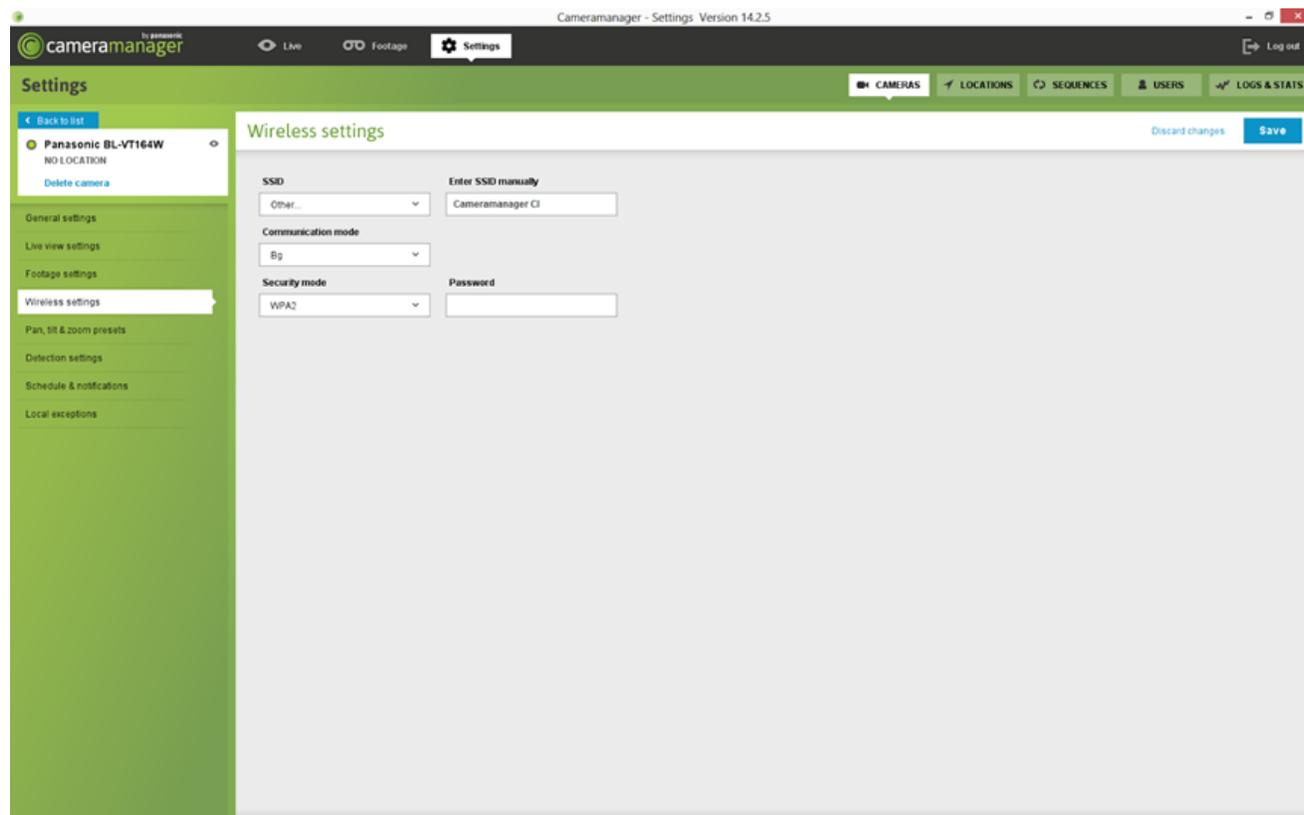


Figure 4: Overview of 'Wireless Settings'

The table below explains the fields in 'Wireless Settings' and how to change these fields.

Field	Meaning	Change
SSID	The name of the Wi-Fi network to which the camera is connected	If you want to change the SSID and/or the password, connect the camera to the router using the supplied Ethernet cable.
Communication mode	Dependent on the type of Wi-Fi connection, the communication mode is a, b, g or u.	Select the desired mode in the drop-down menu.
Security mode	The type of encryption used by the Wi-Fi network. Select WPA, WPA2, WEP or none.	Select the desired mode in the drop-down menu.
Password	The password that is used for the Wi-Fi network.	If you want to change the SSID and/or the password, connect the camera to the router using the supplied Ethernet cable.

4.6 Pan, Tilt & Zoom presets

This screen allows you to create Pan, Tilt & Zoom presets. This means setting the camera positions in advance, so that in Live Viewer you can rapidly switch between the various positions and you do not need to manually turn the camera to the desired position.

4.6.1 Set Pan, Tilt & Zoom presets

- Give the preset a name;
- Turn the camera to the desired position. You can do this by using the mouse to move the cursor into the camera image and turn and zoom it using the arrows;
- Click 'Add new preset' when the desired camera image is in the preview screen.

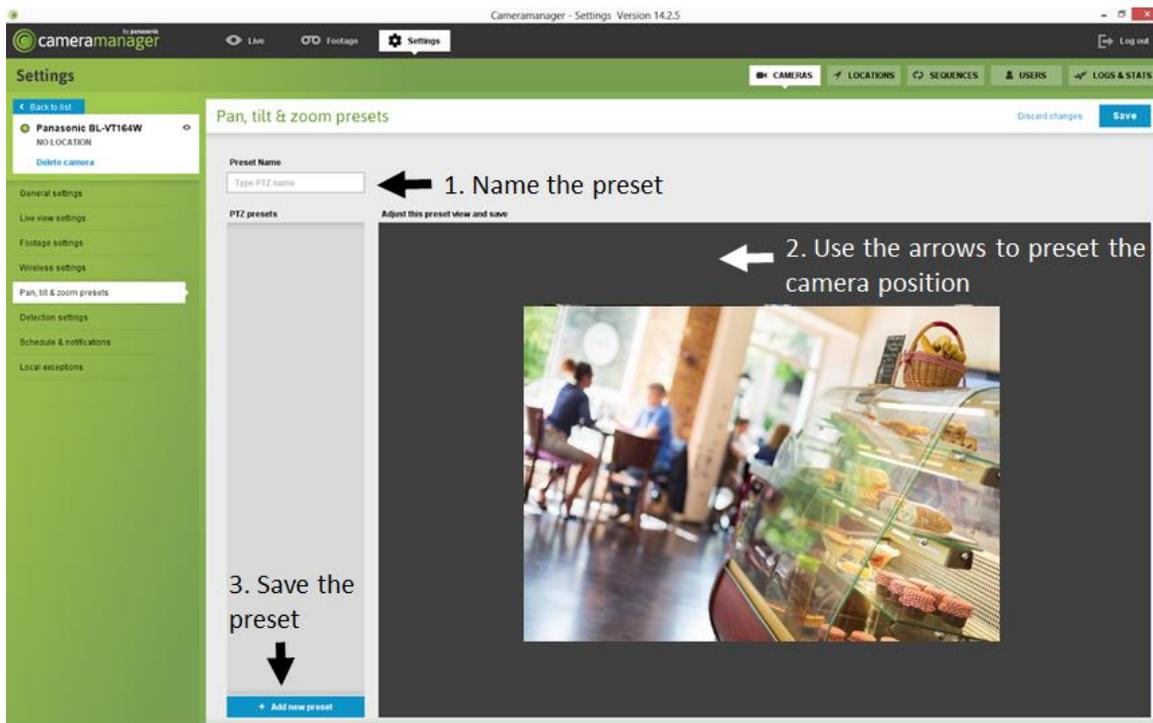


Figure 5: Overview of 'Pan, Tilt & Zoom presets'

4.6.2 Use Pan, Tilt & Zoom presets

- Go to the Live View and drag the camera, for which you have filled in presets, into the Live View.
- Move your mouse to the opened camera image, right click and select 'Select PTZ preset'.
- Now select the desired preset. After selecting the preset, the camera image will automatically adopt the preset values.

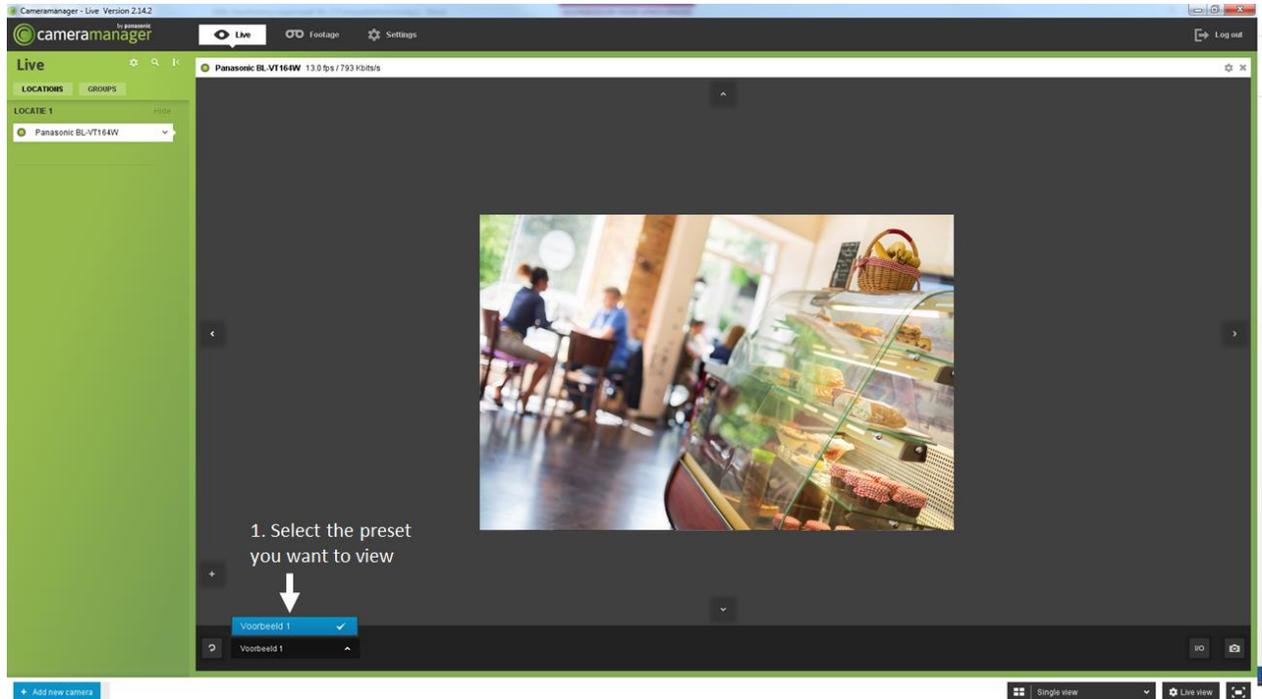


Figure 6: Use Pan, Tilt & Zoom preset

4.7 Detection settings

This screen displays the settings that are used for the motion and infrared sensors of the camera.

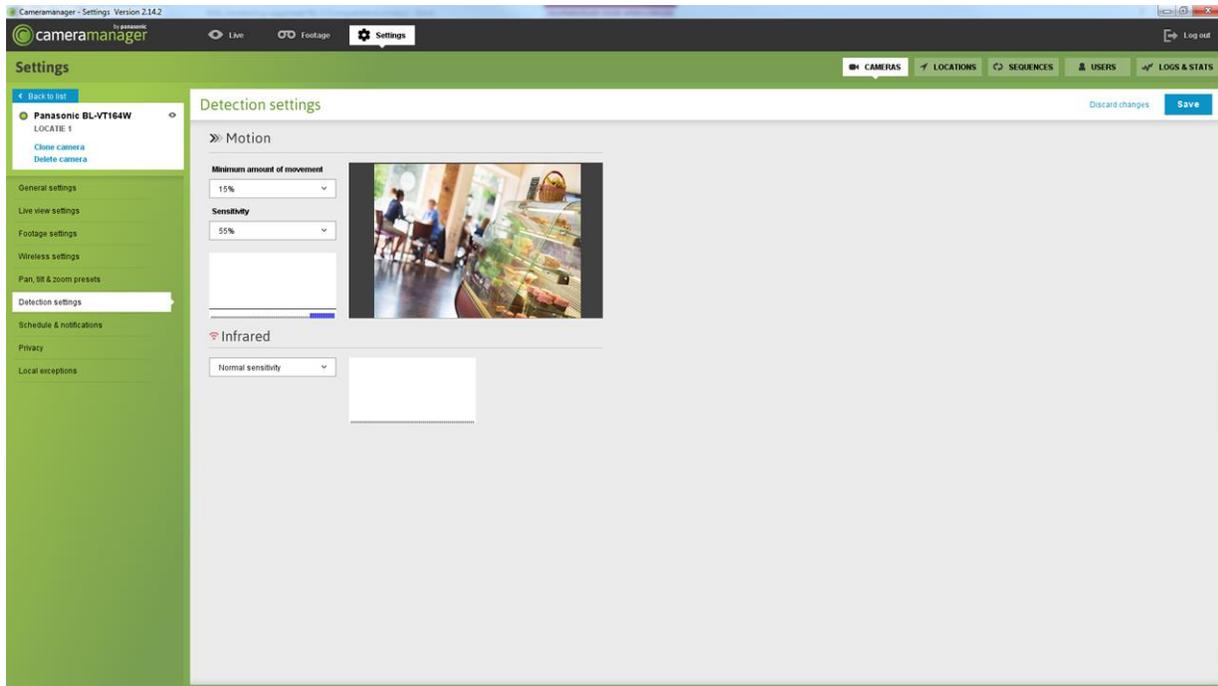


Figure 7: Overview of 'Detection settings'

The table below explains the fields in 'Detection settings' and how to change these fields.

Field	Meaning	Change
Motion: Minimum amount of movement	The percentage of motion that the camera must detect before it starts to detect the moving object. The higher the chosen percentage the more motion is required for detection.	Select the desired percentage in the drop-down menu.
Motion: Sensitivity	The degree of motion sensitivity of the camera. The higher the chosen percentage the more sensitive the camera is and the more rapidly motion is detected.	Select the desired percentage in the drop-down menu.
Infrared: Sensitivity	The degree of infrared sensitivity of the camera. The more sensitive the camera is set the more rapidly a difference in temperature is detected.	Select the desired mode in the drop-down menu.

4.8 Planning & notifications

You use the fields in this screen to create a schedule for recording images and detecting motion and changes in infrared.

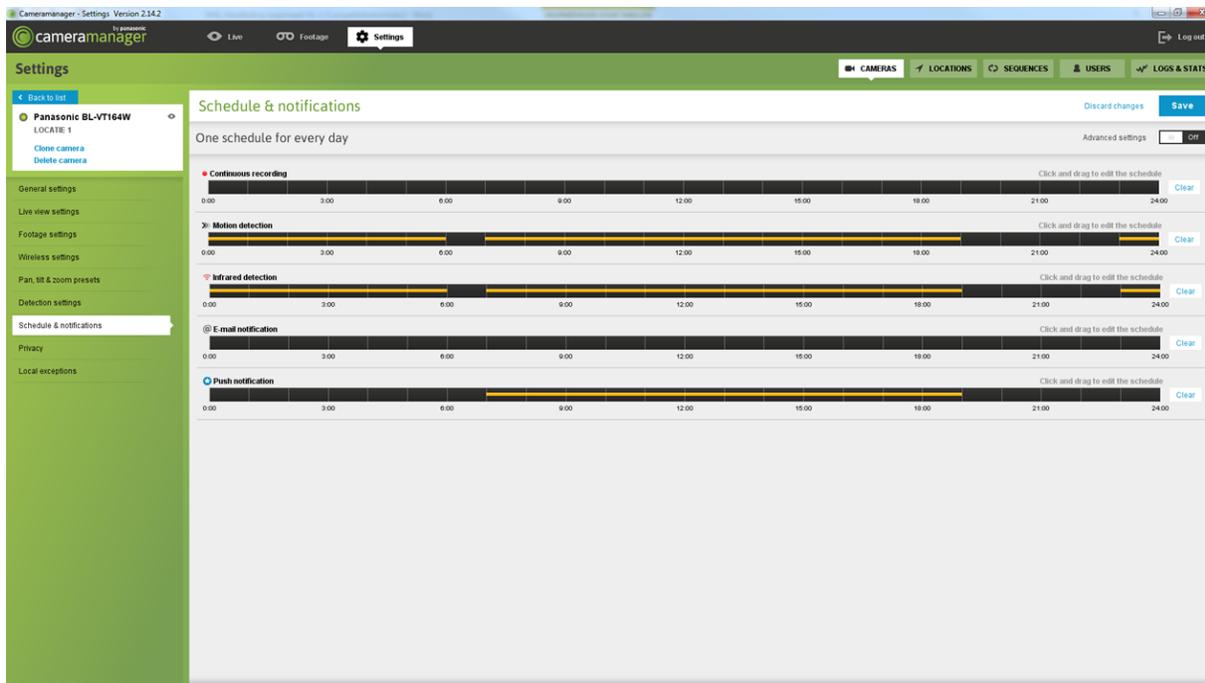


Figure 8: Overview of 'Planning & Notifications'

4.8.1 Create a schedule

To create a schedule you can select the following options:

Field	Meaning	Change
Continuous recording	Footage is continuously recorded during this interval.	See the instructions below
Motion detection	The camera only records when motion is detected.	
Infrared detection	The camera records when a heat source is detected.	
Email notification	Receive an email if motion or a heat source is detected.	The email is sent to the email address that is used to log in, after approval has been given. Go to the 'Users' tab in 'Settings'. Click 'Rights' to set this.

Push notification	Receive a push notification on your smartphone or tablet if motion or a heat source is detected.	The push notification will be sent to smartphones and tablets on which the Cameranager app has been installed and on which the account is logged in.
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To add one or more options to a schedule, follow the steps below:

- Click and hold the left mouse button on the timeline of, for instance, the option 'Motion detection'.
- While keeping the mouse button depressed, drag the cursor over the desired time interval. The line turning yellow shows the interval that has been set.

Note: At the times when continuous recording has been set, you cannot use motion or infrared detection and vice versa.

4.8.2 One time schedule for every day

The Cameranager app allows you to easily create a schedule that applies to every day of the week. To do so, create a schedule with 'Advanced Settings' turned off. When you open the 'Planning and notifications' screen, the advanced settings are set to Off as standard.

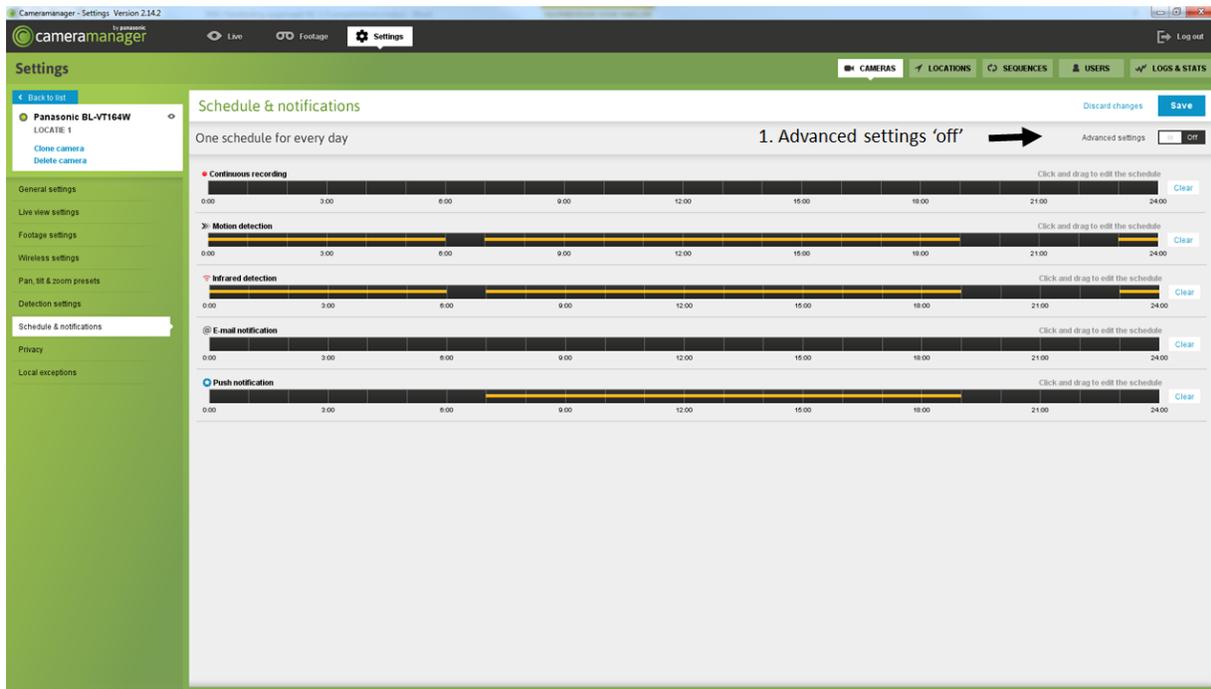


Figure 9: A time schedule for every day

4.8.3 A different schedule for each day

To set a different schedule for each day, turn 'Advanced Settings' on. Turning 'Advanced Settings' on allows you to select separate days of the week.

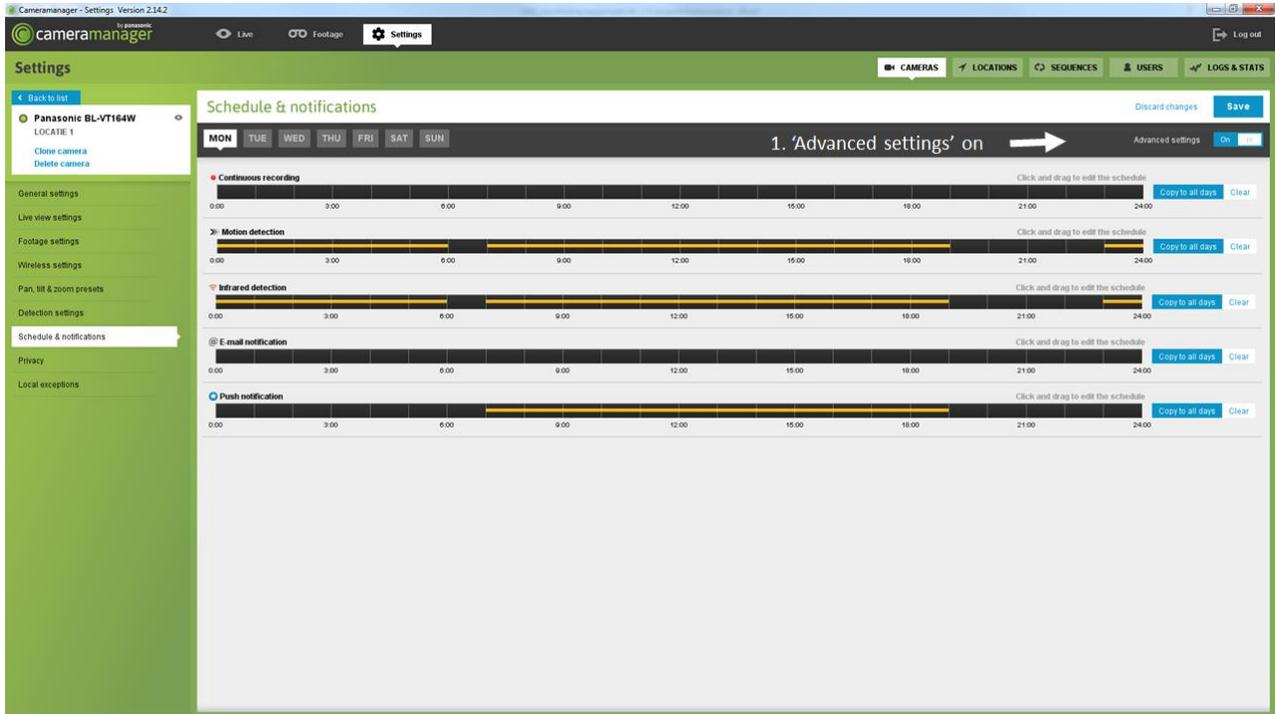


Figure 10: A different schedule every day

4.9 Local exceptions

The 'Local Exceptions' screen allows you to create a list of IP addresses that use the local connection as standard. Local exceptions are not obligatory, but their use can be useful if you have a Virtual Private Network (VPN).

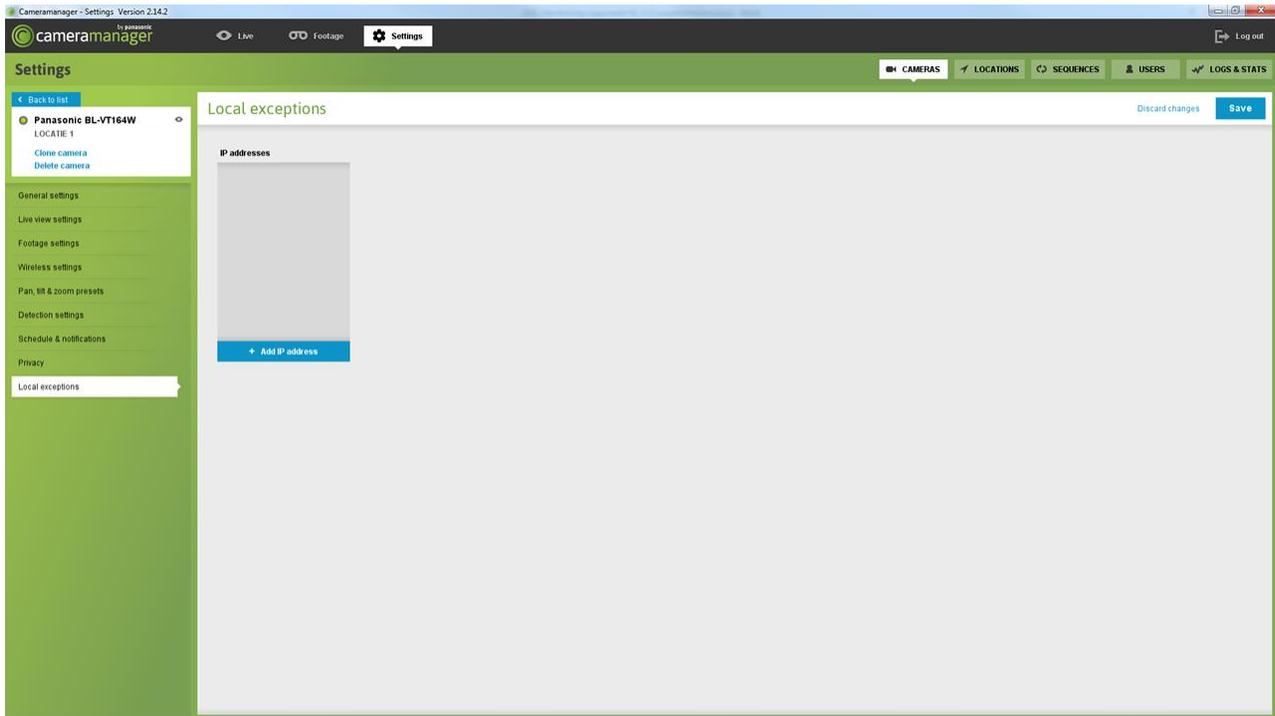


Figure 12: Overview of 'Local Exceptions'

Note: We recommend that only experienced users change these settings. Changing these settings can result in a non-working camera.

5 ADDITIONAL SETTINGS

In addition to the settings per camera, the Cameramanager application allows you to also add Locations, Sequences and Users and to view logs & statistics. To change and view these additional settings, click 'Settings' in the main menu and then select the desired setting in the top right corner.

The sections below explain the use of locations and users. Contact your point of sales for more information about the advanced functions Sequences and Logs & Statistics.



Figure 13: Overview of settings

5.1 Add or remove a location

By adding locations, you can group and sort your cameras. A location is often used to group the cameras geographically. Consider for instance an account to which cameras of multiple shops are added.

- Click 'Locations' and then 'Add Location'.
- Give the location a name and enter (if required) the associated address details.
- Then click 'Save'.

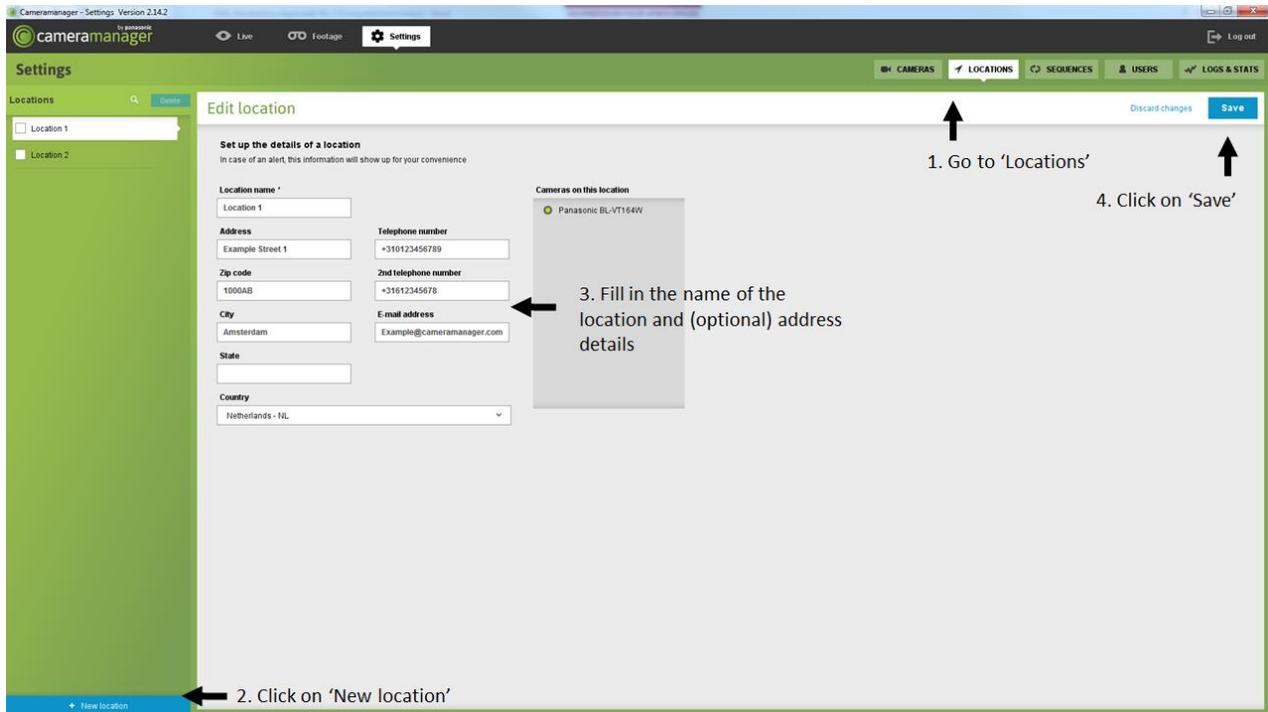


Figure 14: Add location

5.1.1 Add a location to a camera:

- Click 'Cameras' and select the camera you want to add to a location;
- Select 'General Settings';
- At 'Location Name', select the desired location in the drop-down menu.
- Then click 'Save'.

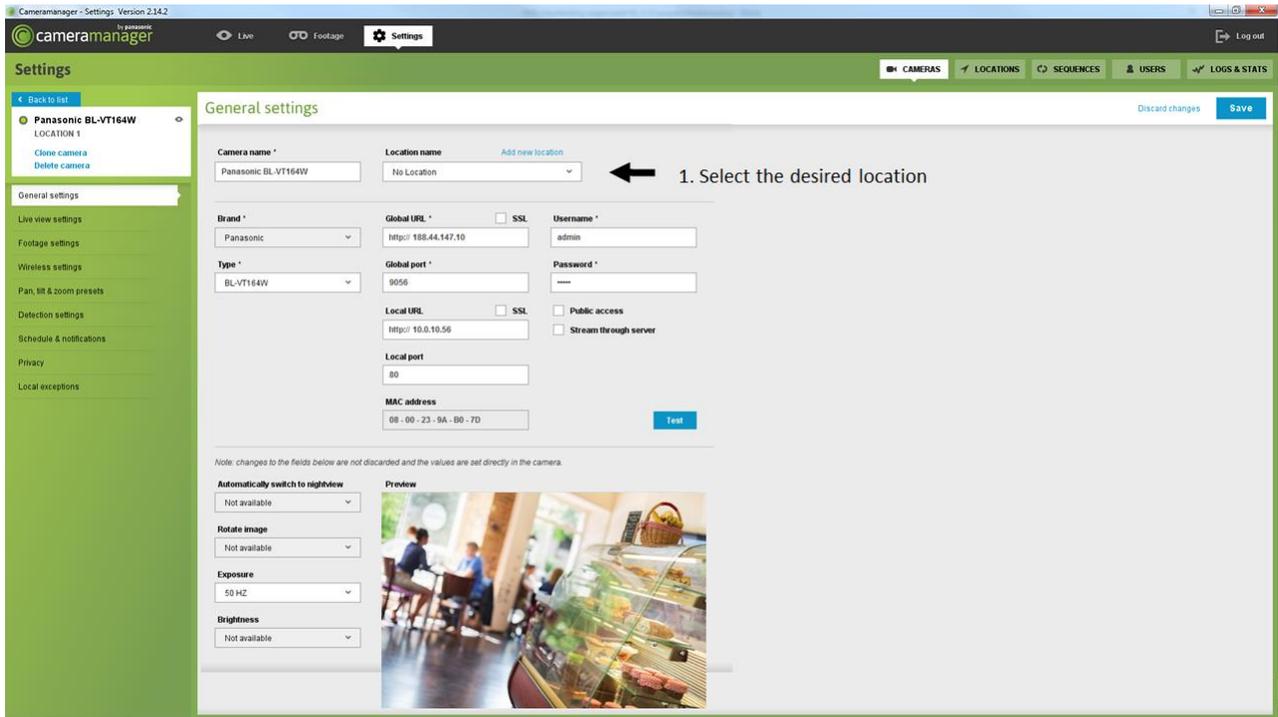


Figure 15: Add location to a camera

5.1.2 Remove a location

- Click 'Locations':
- At the left, select the location you want to remove;
- Then click 'Remove'.

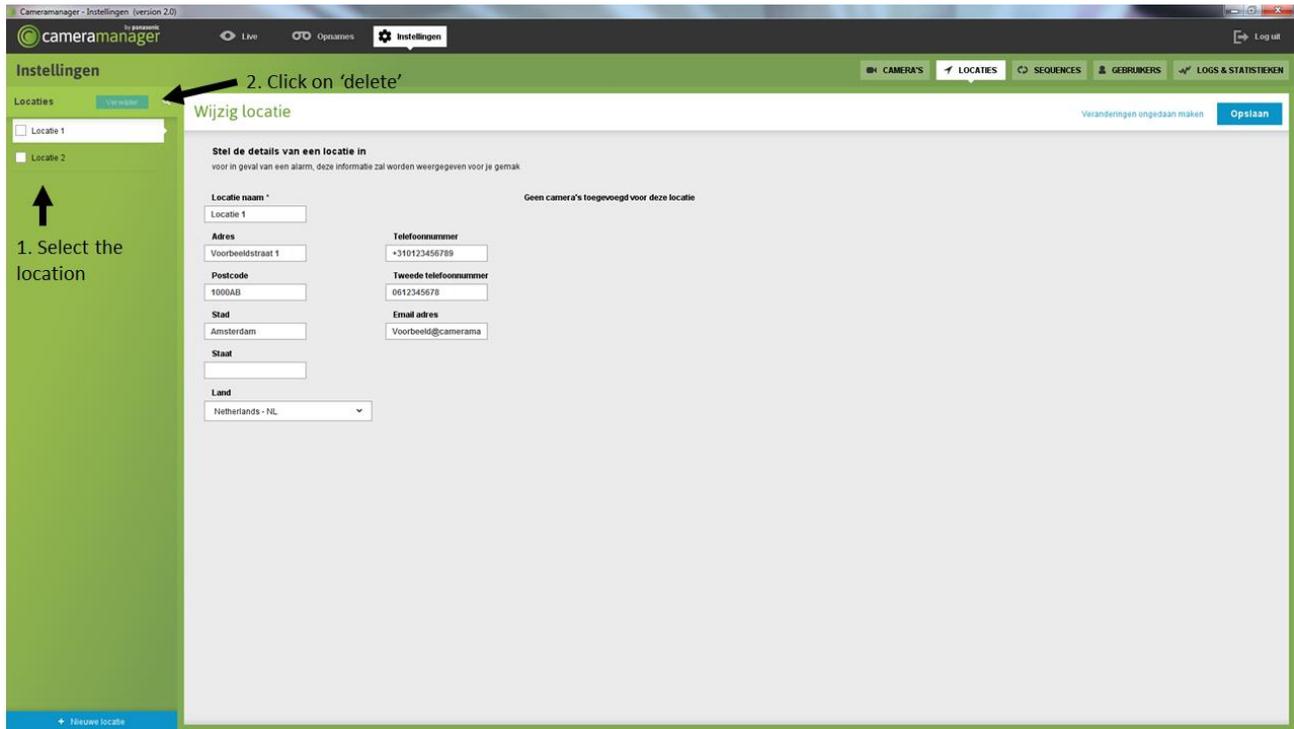


Figure 16: Remove a location

5.2 Manage sub-users

The 'Users' window allows you to manage the users on your account. As standard you see one user here. This is your main account. If desired, additional sub-users can be added.

Within the subscription, one additional sub-user can be added free of charge. Licences can be purchased if you want to add more sub-users, for € 2,50 ex VAT per sub-user per month. If this is required, contact your point of sales.

5.2.1 Add or remove a sub-user

Click 'Add new user' at the bottom left of the screen In the large screen, you can now add the user's details. Click 'Password' and enter the desired password in the pop-up. Then click 'Save'. After being saved, the login details are sent to the email address that has been filled in.

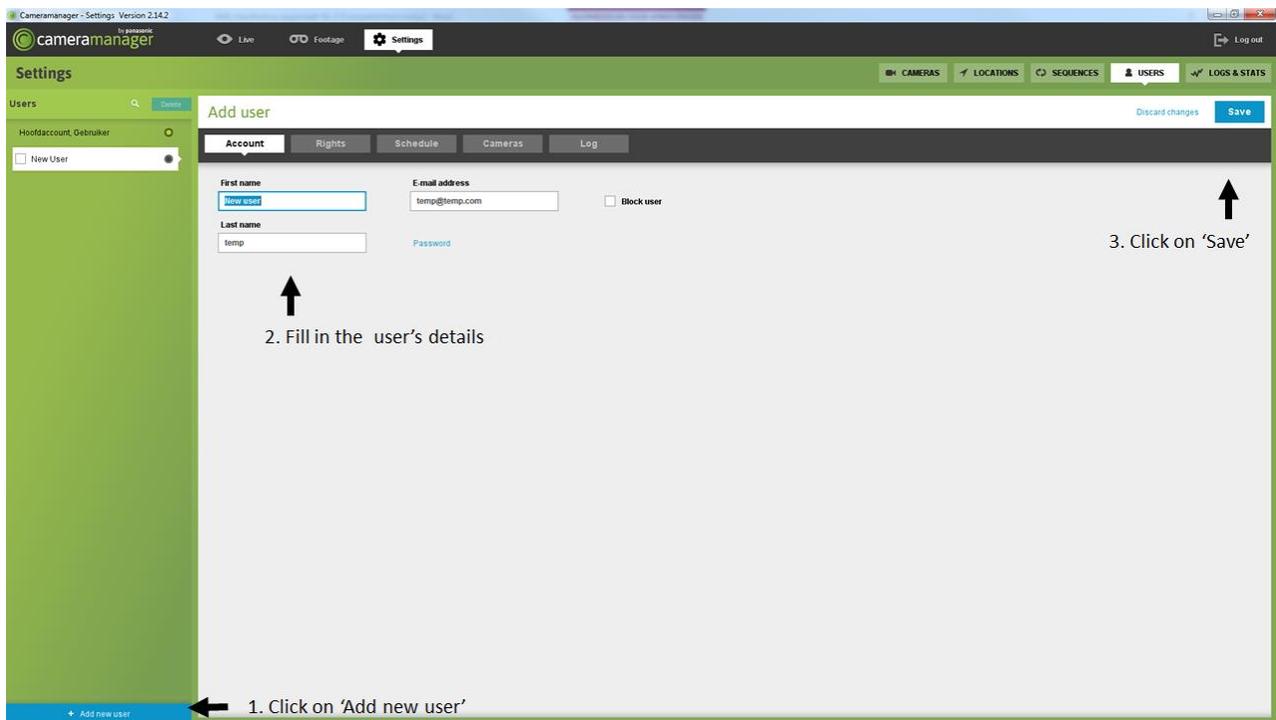


Figure 17: Add a sub-user

To remove a sub-user, select the sub-user in the menu and click 'Remove'.

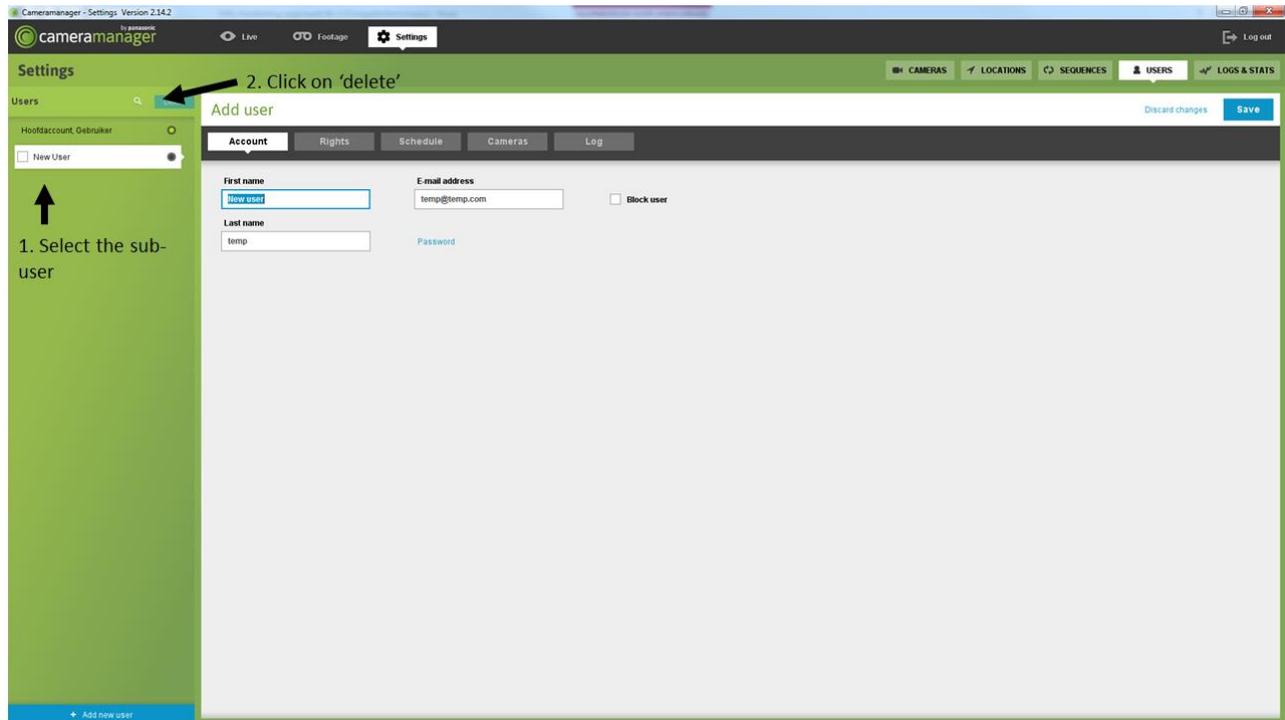


Figure 18: Remove a sub-user

5.2.2 Configure a sub-user account

After you have added a sub-user account, you can assign rights to this sub-user. Contact your point of sales for more information about configuring a sub-user account.

6 LIVE VIEWER

In Live Viewer, you can view in real time what the camera is recording.

The main screen of Live Viewer displays an overview of the cameras that have been added in the left-hand column. The right-hand field shows images from the selected cameras. To view a camera, drag the camera to the middle of the Live View. If Live View is set to 'Single view', you can view one camera in the viewer. Select Multi view to view multiple cameras simultaneously.



Figure 19: Overview of the Live Viewer

After selecting a camera, functions are displayed to control the camera. At the top left, you see the name of the opened camera, the number of frames per second that are being displayed and the bandwidth that the camera is currently using. You can control the camera using the arrows in the screen: move the camera up and down, left to right and zoom in and out. After opening a camera in Live View, you can also open presets (see Chapter 4.6) and take snapshots of what the camera shows.

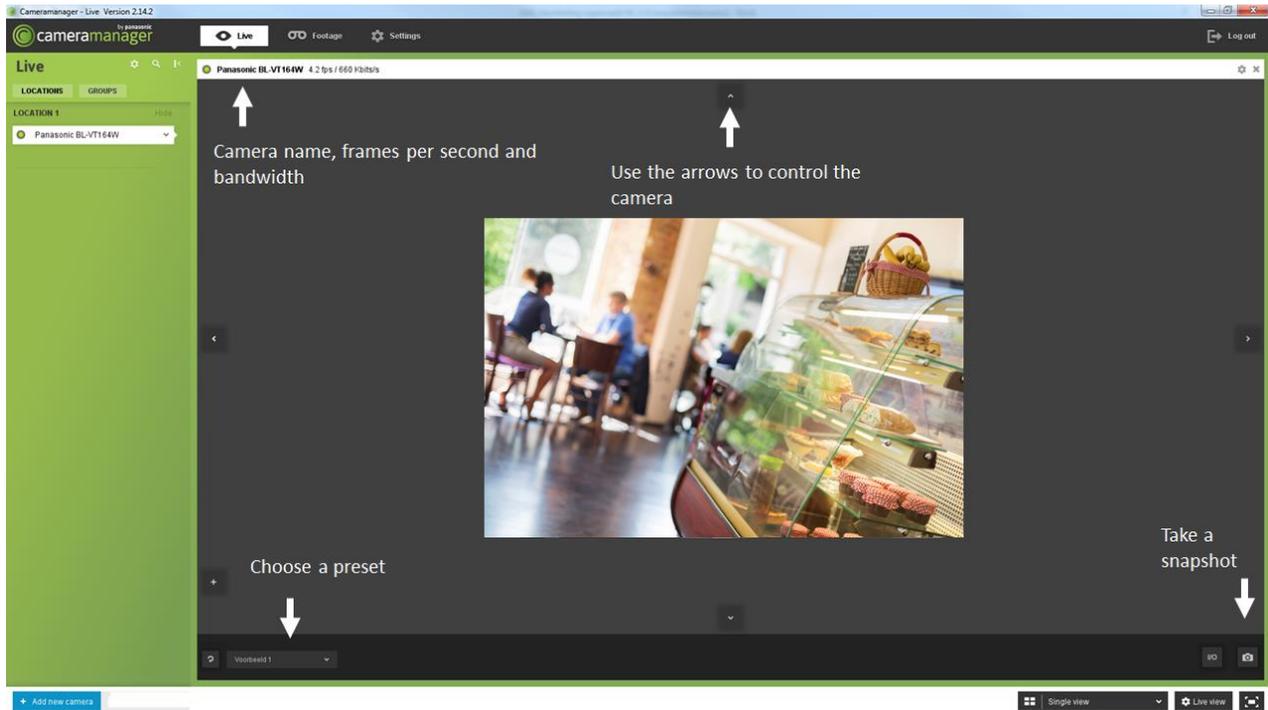


Figure 20: Controlling the camera in Live View

7 VIEW AND MANAGE RECORDINGS

The Recordings screen allows you to view and manage recordings.

7.1 Select a recording

To view and manage recordings, click 'Recordings' in the menu. Then click the camera for which you want to see the recordings.

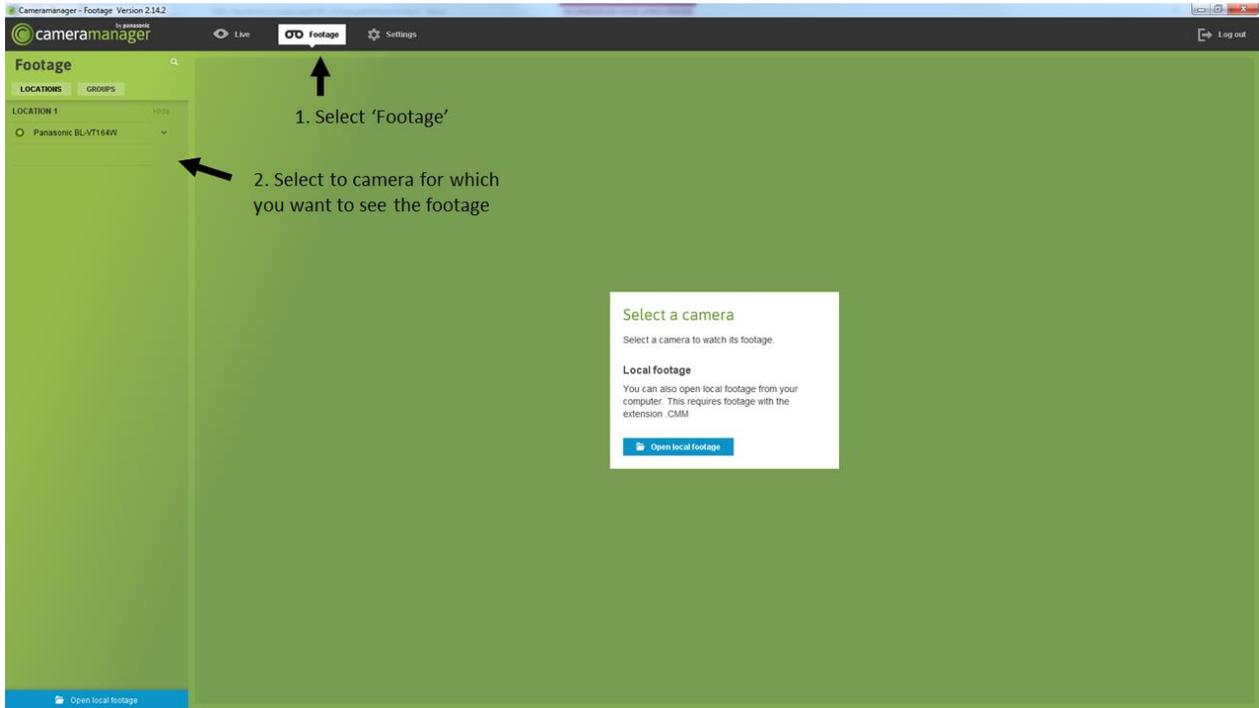


Figure 21: Select a recording

You are now in the recordings menu of the selected camera. Here you can see the days for which you can review the recordings. Behind the date and day, a number is displayed showing how many activities have been registered that day. The figure below shows the number 39 behind 'Friday'. This means that there are 39 recordings available for that day. Select the desired day to open the recordings for that day.

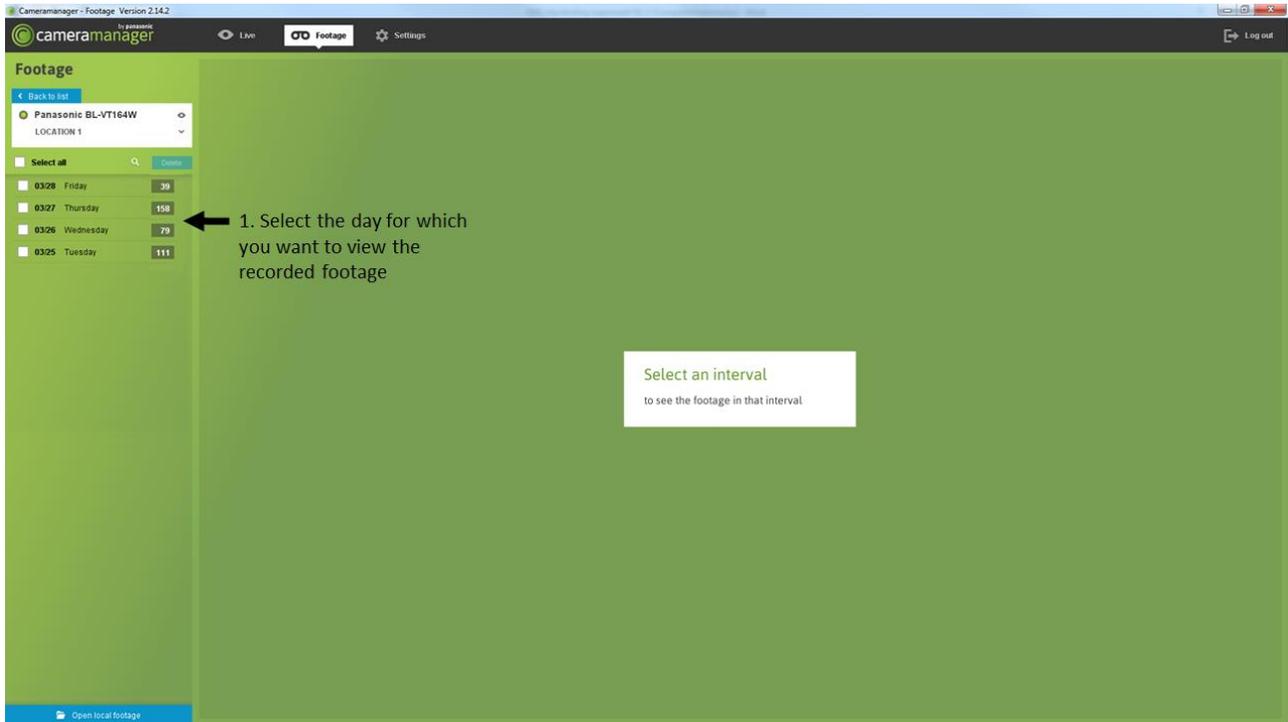


Figure 22: Open a recording

7.2 Play recordings

The screen for playing recordings appears as follows:

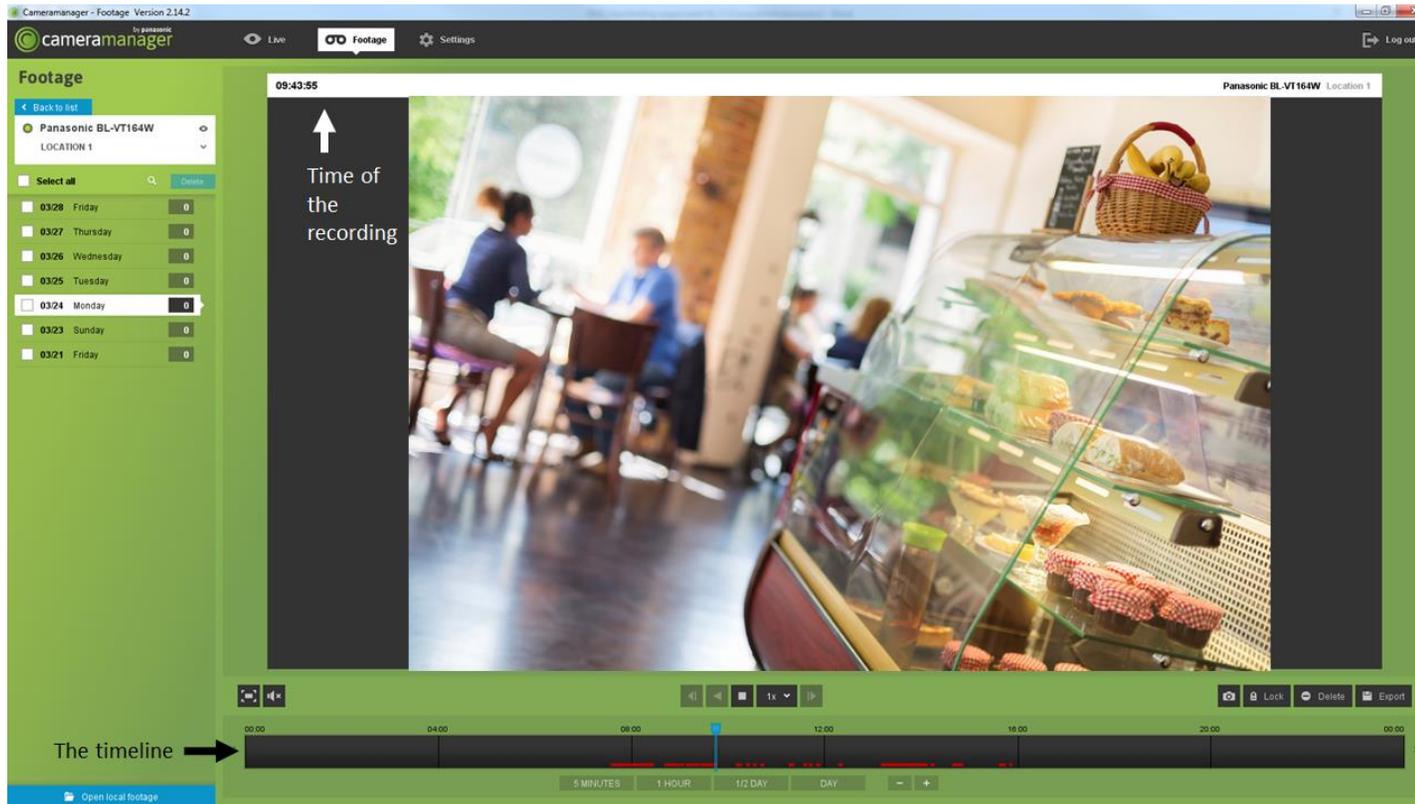
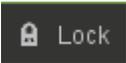
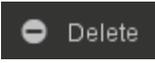


Figure 23: overview of footage

The table below explains the recording screen buttons.

Button	Meaning
	Watch the recordings on full screen
	Adjust the volume
	Use these buttons to play the images: <ul style="list-style-type: none">• Go 1 frame back• Rewind• Play/pause• Speed of playing• Go 1 frame forward <p><i>Note: To rewind you must first pause the recording</i></p>
	Take a snapshot. The snapshot is saved locally
	Lock (a part of) a recording. Now no changes can be made to the recording. After clicking this button, you can specify the length of the part of the recording you want to lock.
	Remove (a part of) a recording. After clicking this button, you can specify the length of the part of the recording you want to remove.
	Export (a part of) a recording. After clicking this button, you can specify the length of the part of the recording you want to export.
	Select the duration on the timeline
	Zoom the duration on the timeline in or out
	You can open and view previously downloaded recordings using the Cameramanager application. After opening the recordings in the application, they are not saved in the cloud. When you leave the recordings screen, the opened recording is closed.

After selecting the desired day, the recordings for that day are opened. A timeline is displayed under the playing window. Parts of the timeline that are red indicate the moments at which images have been recorded. If the camera is set to continuous recording, the entire timeline is red. If detection is selected, the timeline is only red at times when an event was detected. The blue indicator indicates what moment is being played.

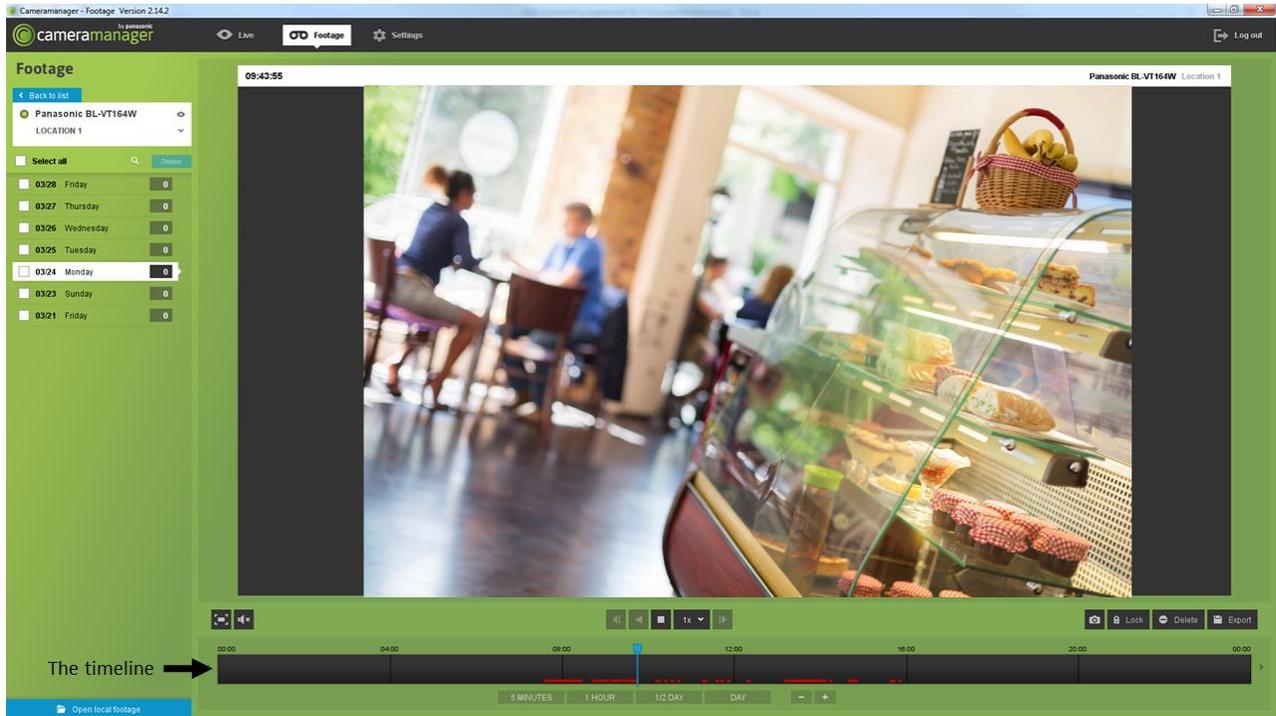


Figure 24: The timeline

If you want to play recordings of a particular time, click the desired time in the timeline

8 QUESTIONS AND COMMENTS

Do you have any questions or comments regarding the use of Cameramanager? Contact your point of sales for an overview of the frequently asked questions and functions of Cameramanager.