

# CCTV

## Easy User Guide

## Introduction

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This user guide has been designed to complement the training that you have received, and act as a quick reference guide for the system

This guide follows the following structure:

- Logging in to the system
- Wisenet Wave layout
  1. Wave Menu
  2. Tree View
  3. Camera View
  4. Camera Layouts
  5. Camera Timeline/Playback
- PTZ and Dewarp Controls
- Accessing and exporting recorded footage
- Smart Search



## Logging in

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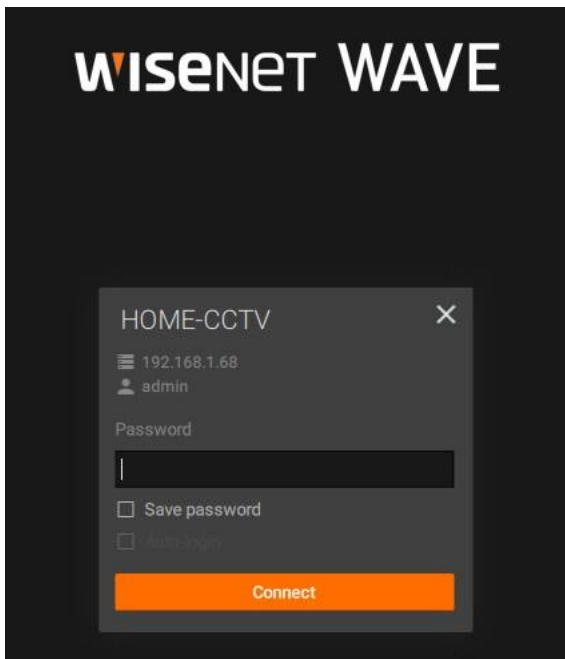
1. To start the application “Wisenet Wave” simply double click on the icon on the desktop.
2. After a few seconds the log in box will appear, enter your username and password.

Your username will be predefined as admin unless changed.

1.



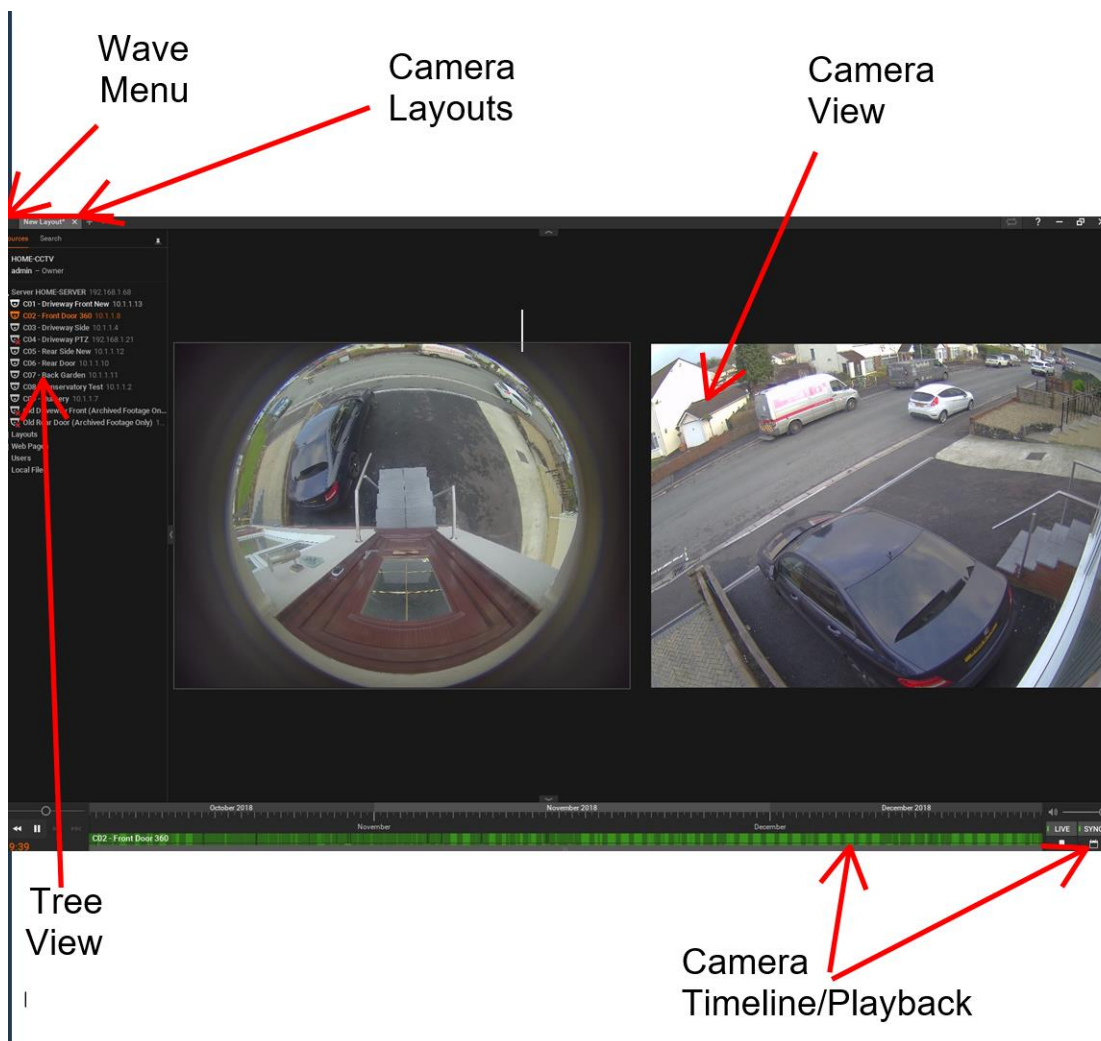
2.



## Control Centre Layout

There are 5 main areas of the system:

1. Wave Menu
2. Tree View
3. Camera View
4. Camera Layouts
5. Camera Timeline/Playback



## 1. Wave Menu

The Wave menu is made up of the following options:

Disconnect from Server  
(To log off the system)

Disconnect from Server    Ctrl+Shift+D

New  
Tab  
(Opens a new camera layout)

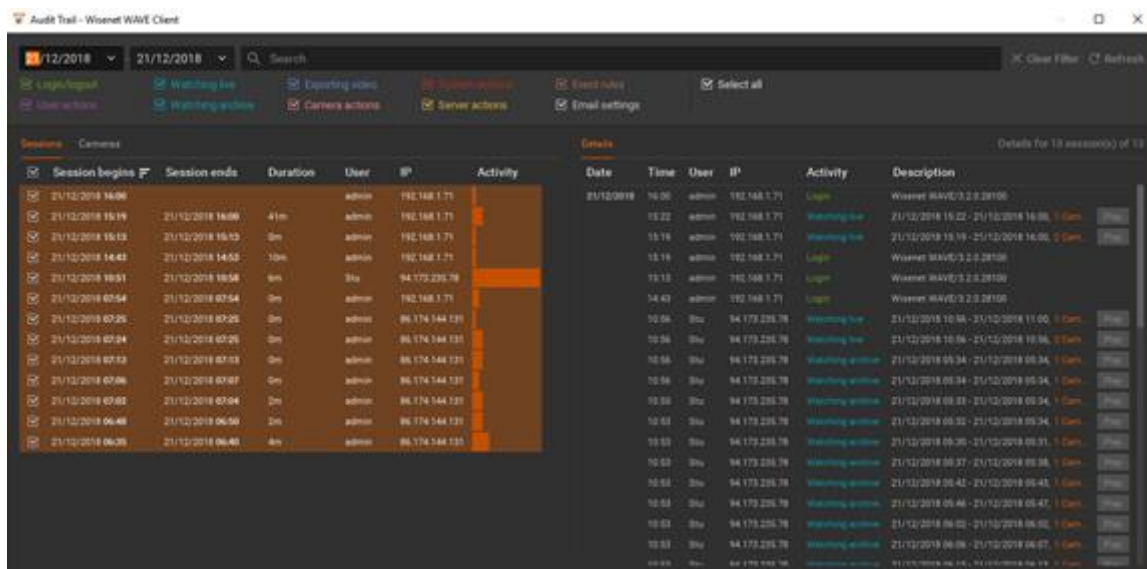
New...    >    Tab    Ctrl+T

Window  
(opens an additional instance of wave for multiple monitor set up)

Window    Ctrl+N

Audit Trail  
(Monitoring of users actions)

Audit Trail...



The screenshot shows the 'Audit Trail - WaveNet WAVE Client' window. It features a search bar at the top, a filter menu with options like 'Login/logout', 'Watching live', 'Exporting video', 'Camera actions', 'Server actions', 'Email settings', and 'Select all'. Below the menu is a table with columns for Session begins, Session ends, Duration, User, IP, Activity, Date, Time, User, IP, Activity, and Description. The table contains 18 rows of data, including login and watching live events for various users and IP addresses.

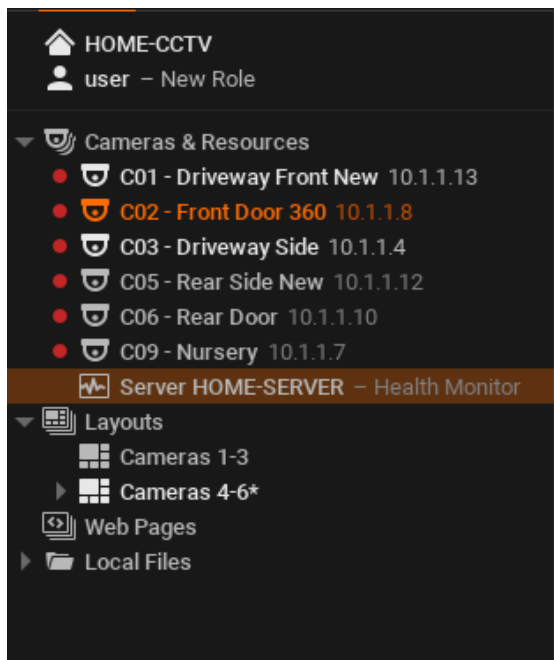
Session begins	Session ends	Duration	User	IP	Activity	Date	Time	User	IP	Activity	Description
21/12/2018 16:06			admin	192.168.1.71		21/12/2018	16:06	admin	192.168.1.71	Login	WaveNet WAVE/3.2.3.201806
21/12/2018 16:19	21/12/2018 16:06	41m	admin	192.168.1.71			16:22	admin	192.168.1.71	Watching live	21/12/2018 16:22 - 21/12/2018 16:06, 1 Cam
21/12/2018 16:19	21/12/2018 16:13	3m	admin	192.168.1.71			16:19	admin	192.168.1.71	Watching live	21/12/2018 16:19 - 21/12/2018 16:06, 1 Cam
21/12/2018 16:43	21/12/2018 16:53	10m	admin	192.168.1.71			16:19	admin	192.168.1.71	Login	WaveNet WAVE/3.2.3.201806
21/12/2018 18:51	21/12/2018 18:56	5m	Shu	94.173.235.78			18:18	admin	192.168.1.71	Login	WaveNet WAVE/3.2.3.201806
21/12/2018 07:54	21/12/2018 07:54	0m	admin	192.168.1.71			14:41	admin	192.168.1.71	Login	WaveNet WAVE/3.2.3.201806
21/12/2018 07:25	21/12/2018 07:25	0m	admin	94.174.144.131			10:06	Shu	94.173.235.78	Watching live	21/12/2018 10:06 - 21/12/2018 11:00, 1 Cam
21/12/2018 07:24	21/12/2018 07:25	0m	admin	94.174.144.131			10:06	Shu	94.173.235.78	Watching live	21/12/2018 10:06 - 21/12/2018 10:06, 1 Cam
21/12/2018 07:13	21/12/2018 07:13	0m	admin	94.174.144.131			10:06	Shu	94.173.235.78	Watching live	21/12/2018 09:34 - 21/12/2018 09:34, 1 Cam
21/12/2018 07:06	21/12/2018 07:07	0m	admin	94.174.144.131			10:06	Shu	94.173.235.78	Watching live	21/12/2018 09:34 - 21/12/2018 09:34, 1 Cam
21/12/2018 07:03	21/12/2018 07:04	0m	admin	94.174.144.131			10:06	Shu	94.173.235.78	Watching live	21/12/2018 09:34 - 21/12/2018 09:34, 1 Cam
21/12/2018 06:48	21/12/2018 06:50	2m	admin	94.174.144.131			10:03	Shu	94.173.235.78	Watching live	21/12/2018 09:30 - 21/12/2018 09:34, 1 Cam
21/12/2018 06:29	21/12/2018 06:40	4m	admin	94.174.144.131			10:03	Shu	94.173.235.78	Watching live	21/12/2018 09:30 - 21/12/2018 09:31, 1 Cam
							10:03	Shu	94.173.235.78	Watching live	21/12/2018 09:37 - 21/12/2018 09:36, 1 Cam
							10:03	Shu	94.173.235.78	Watching live	21/12/2018 09:41 - 21/12/2018 09:41, 1 Cam
							10:03	Shu	94.173.235.78	Watching live	21/12/2018 09:46 - 21/12/2018 09:47, 1 Cam
							10:03	Shu	94.173.235.78	Watching live	21/12/2018 09:02 - 21/12/2018 09:02, 1 Cam
							10:03	Shu	94.173.235.78	Watching live	21/12/2018 08:08 - 21/12/2018 08:07, 1 Cam
							09:49	Shu	94.173.235.78	Watching live	21/12/2018 08:14 - 21/12/2018 08:14, 1 Cam

Exit  
(Closes Wave Application)

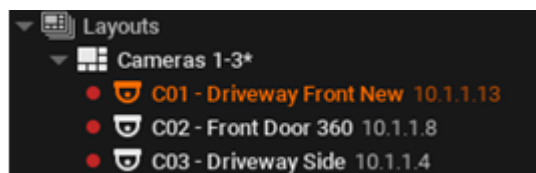
Exit    Alt+F4

## 2. Tree View

The tree view displays all the cameras on the system available to the user logged in.



Cameras can be selected from the “tree” and dropped on to any one of the camera layouts.



Camera layouts can also be configured from the tree view.

## 3/4 Camera Views/Layout

The camera view is where all the camera images are displayed. Cameras can be added from the user tree.

Cameras are dropped or double clicked into the camera view windows on any monitor.

Click and drag or double click  
cameras into a layout



## 3/4 Camera Views/Layout

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Building a view is simply a case of dragging the cameras to suit what you want to see.

Cameras can be dragged from the tree view to any camera window on any screen. Remember you can click and drag any camera from any view to another view.



4 camera layout

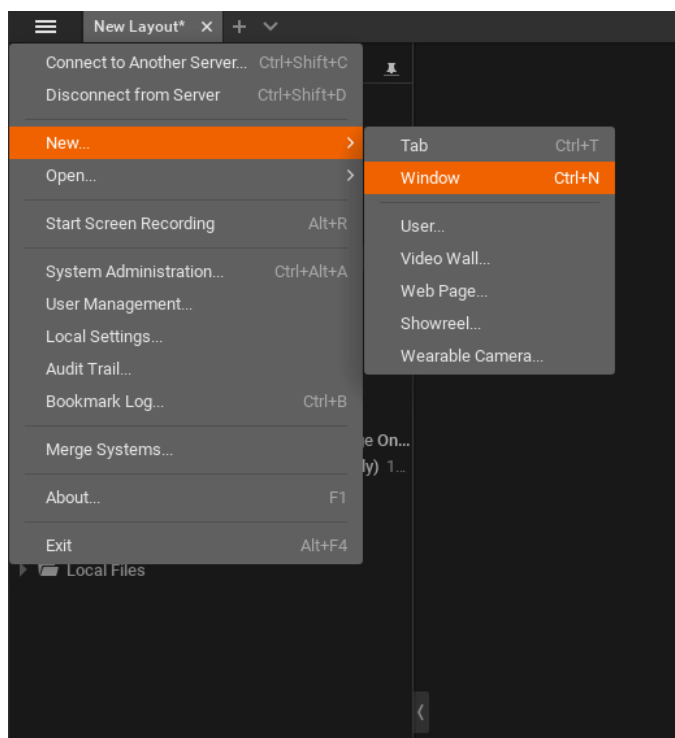


9 camera layout

## 3/4 Camera Views/Layout

If you have more than one monitor you can view cameras on more than one screen.

Simply click the Wave menu and select new window or alternatively use the short cut Ctrl+N.



You can then drag the new window to any desired monitor and use the tree on that monitor to select your required view.

Be aware the human eyes and brain can only take in so much information so any more than 9 views per window makes your life more difficult



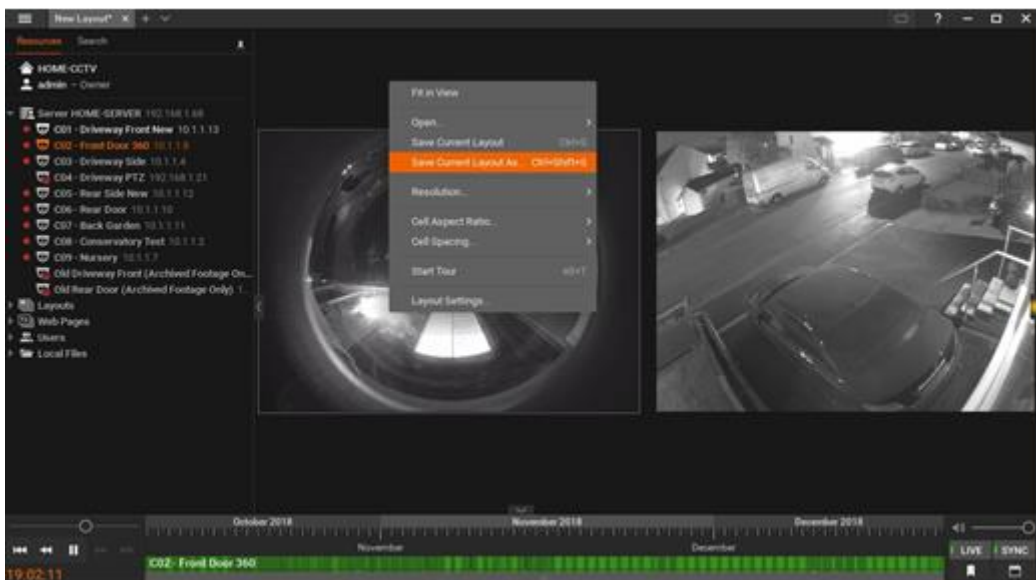
## 3/4 Camera Views/Layout

Rather than having to create a view each time you log on you can simply save your view and bring all the cameras associated with it to your screen.

For example, you could save all the till cameras in a view called “tills”

First select the cameras you want in a view, right click on layout bar or the background of the current layout and select Save Current Layout As. Give the view a relevant name, and hit Save.

To see your saved view, you will just need to drag the new view from the tree on the left hand side into the camera window.

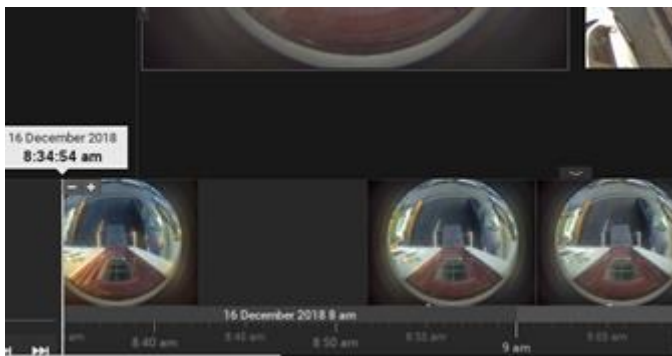
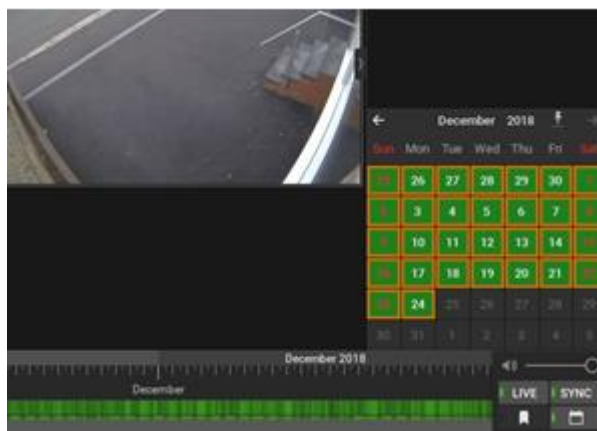


## Camera Playback

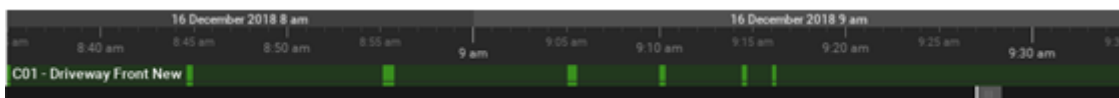
There are several ways to access recordings on the system:

1. Selecting the date and time from calendar events
2. Using the thumbnail search
3. Using the recorded timeline search

1. Selecting date and time from calendar search




2. Using the thumbnail search



3. Using recorded timeline search

## PTZ Control and Dewarping


Within Wave moving PTZ cameras (Pan, Tilt & Zoom) is very simple.

Once a PTZ is highlighted you just need to click  and you will enter PTZ mode on the corresponding camera.



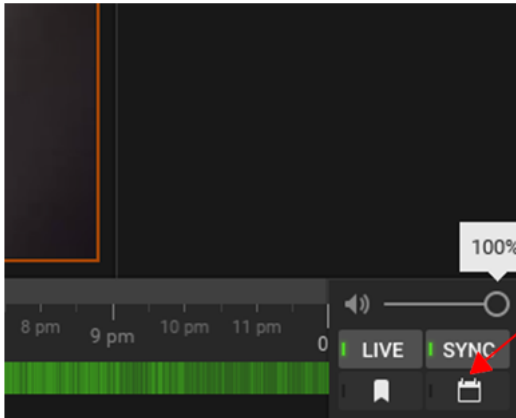
To control the PTZ camera you can either drag from the centre while holding the left mouse key in the direction you require the camera to move in. You can also left click and drag a box with your desired camera view and the camera will pan adjust to that view

Camera presets can also be programmed via Wave by just clicking on a PTZ camera while crosshairs are visible and selecting presets. Also presets can be named and a home position can be selected.

360 Fisheye cameras can be dewarped into 90, 180 and 360 degree views. Simply select the 360 camera, click  and drag the fisheye to your chosen degree view and zoom level.

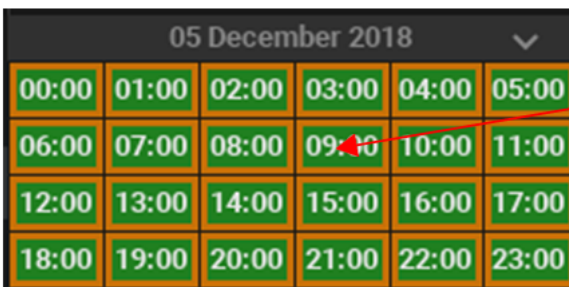
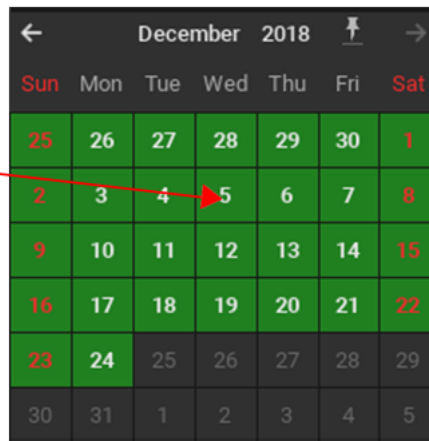


## Recorded Footage Control



When using calendar search you need to select calendar from the bottom right hand corner.

Select the required date you need to view footage from



Select the required Time you need to view footage from

## Recorded Footage Control

Using the thumbnail search is a quick way of finding footage fast. To use the thumbnail search you may need to expand the bottom time line bar up with the mouse. All thumbnails for archived footage will now be visible.

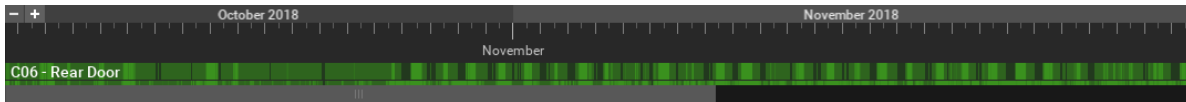


When you find your required thumbnail all you have to do is click on it. This will then automatically move the timeline to your desired footage start point and your current camera will move to this thumbnail. You will then be able to use the timeline to move through the footage.

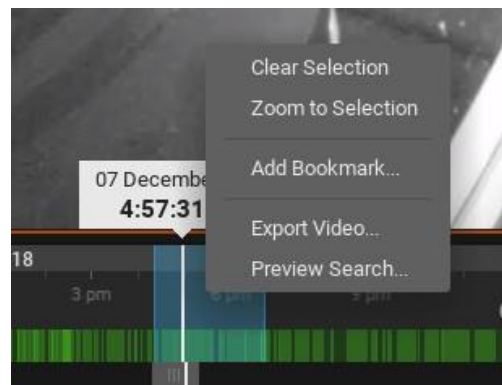
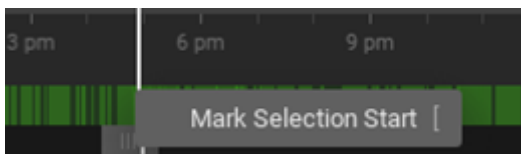


## Recorded Footage Control

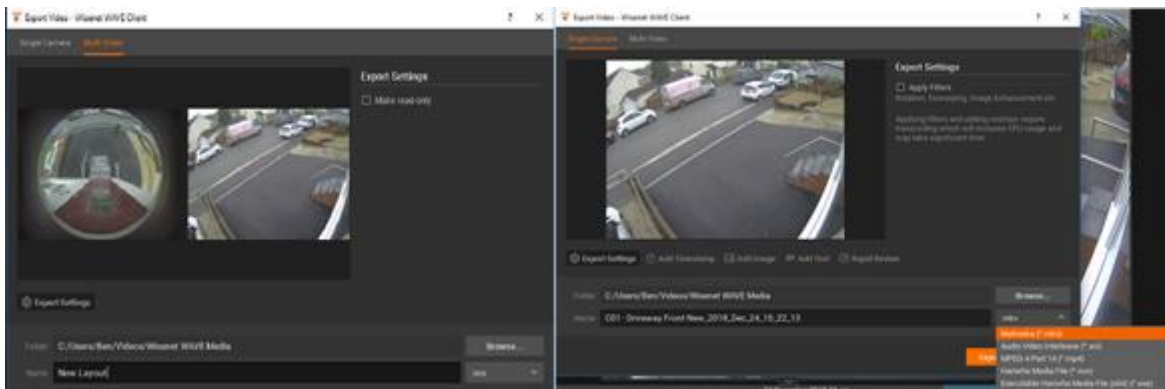
Using recorded timeline search is the most commonly used features of Wave. This Bar displays all recorded footage from the camera or cameras you currently have in view. The green line displays when there is or is not footage from the camera. You can click on any point on the timeline and the cameras in view will jump to the time you have clicked. The timeline is also used for export.



For timeline export all you need to do is find your required footage using one of the 3 simple ways. Right click on the timeline where you would like your export to begin and select mark selection start then right click where you would like your footage to end and select mark selection end. Then by right clicking on your selection which will be displayed in lime green you just select export. (for multiple cameras select export multi-video and for a single camera just select export select area.



Once selected you can then select your export location and file format. If you select Hanwha Executable please be aware that the pc reviewing must be a 64•bit machine and have the Wave player installed. You can still export in MKV and AVI format with or without date stamps but only for single camera export. Multi camera export must use Hanwha Executable or media.



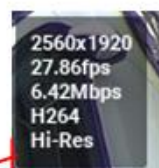
## Smart Search

Using smart search is the quickest way to find footage with Wave. As discussed with timeline footage is displayed on the timeline in green but using smart search your footage is shown in red. By right clicking on your camera and selecting smart search the image will be now be overlaid with small red squares. By left click dragging a box over your selected area of interest your timeline will now show red for every time there is any motion in this area.



The system is able to return back thousands of results in just a few seconds. Wave also offers several features in live viewing such as:

### Camera Information



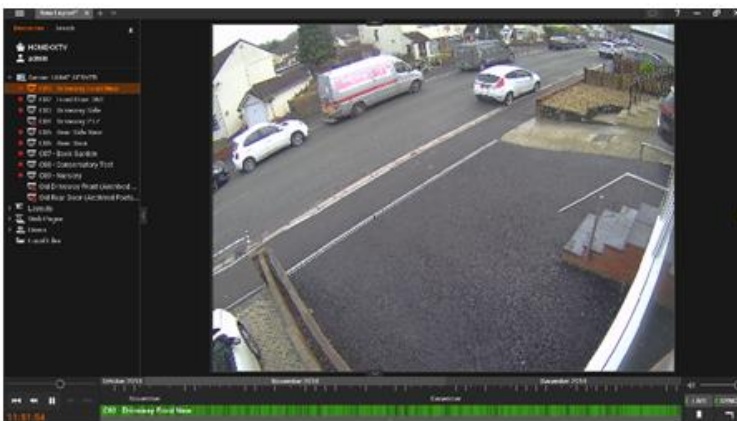
- Camera Resolution
- Frame Rate
- Bandwidth
- Codec
- Hi or Low Resolution

## Live View Features

### Image Rotation.



### Screenshot.



### Digital Zoom window.

