

How to set up motion detection recording/snapshot to save to an SD Card using an ACTi camera.

For the purpose of this guide we are using an ACTi E92 3MP indoor dome camera that has an on board SD card slot. This camera is on its latest firmware (as of 21/05/2013) and all settings are done using the web client. Before we start, please make sure that the SD card is properly installed into the camera, the camera is connected to the network and you know the IP address.

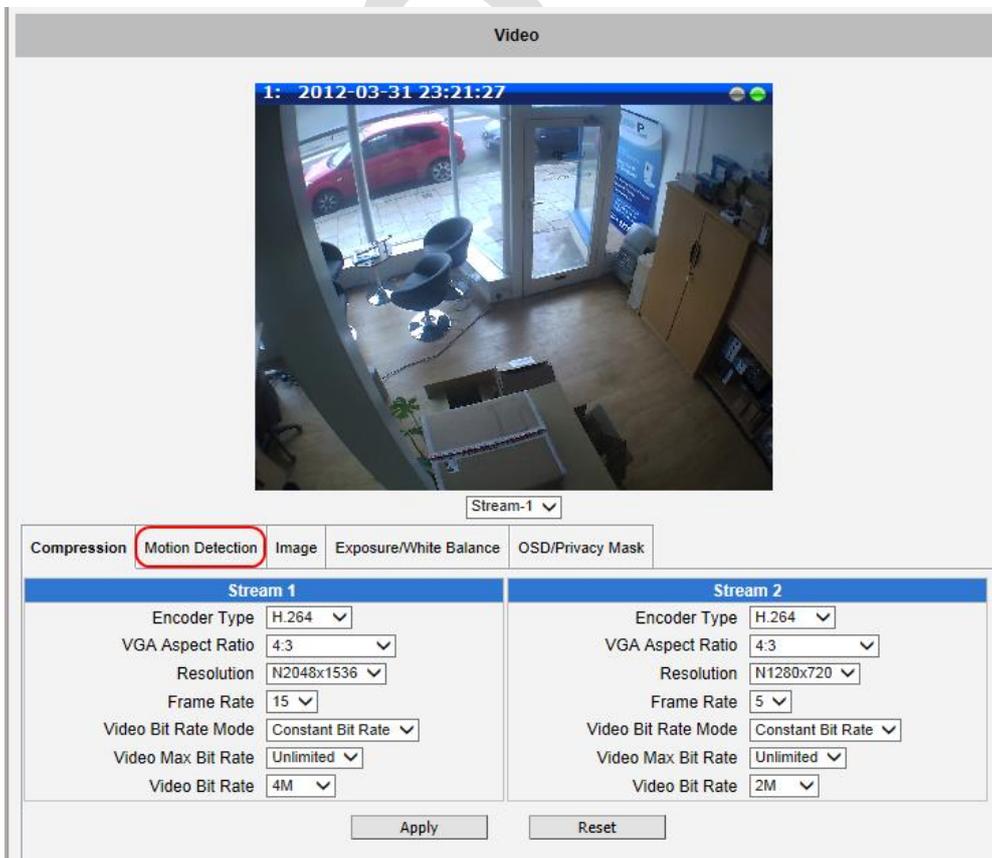
Firstly log into your camera and go to the settings menu via the button below:



In the menu bar to the left, expand the tab that is called 'video' and click on the tab that says 'video'.



Now on this page select the 'motion detection' tab.



The screenshot displays the 'Video' configuration page. At the top, there is a live video feed showing a car dealership interior with a red car visible through the glass doors. The timestamp '1: 2012-03-31 23:21:27' is visible in the top left corner of the video feed. Below the video feed, there is a dropdown menu for 'Stream-1'. Underneath, there are four tabs: 'Compression', 'Motion Detection' (which is selected and highlighted in red), 'Image', 'Exposure/White Balance', and 'OSD/Privacy Mask'. The 'Motion Detection' tab is active, showing settings for two streams. Stream 1 settings include: Encoder Type (H.264), VGA Aspect Ratio (4:3), Resolution (N2048x1536), Frame Rate (15), Video Bit Rate Mode (Constant Bit Rate), Video Max Bit Rate (Unlimited), and Video Bit Rate (4M). Stream 2 settings include: Encoder Type (H.264), VGA Aspect Ratio (4:3), Resolution (N1280x720), Frame Rate (5), Video Bit Rate Mode (Constant Bit Rate), Video Max Bit Rate (Unlimited), and Video Bit Rate (2M). At the bottom of the settings area, there are 'Apply' and 'Reset' buttons.

Now click on the 'Setup' button.

Video

1: 2012-03-31 23:21:54



Activity

Compression **Motion Detection** Image Exposure/White Balance OSD/Privacy Mask

Runtime MD Profile ▾

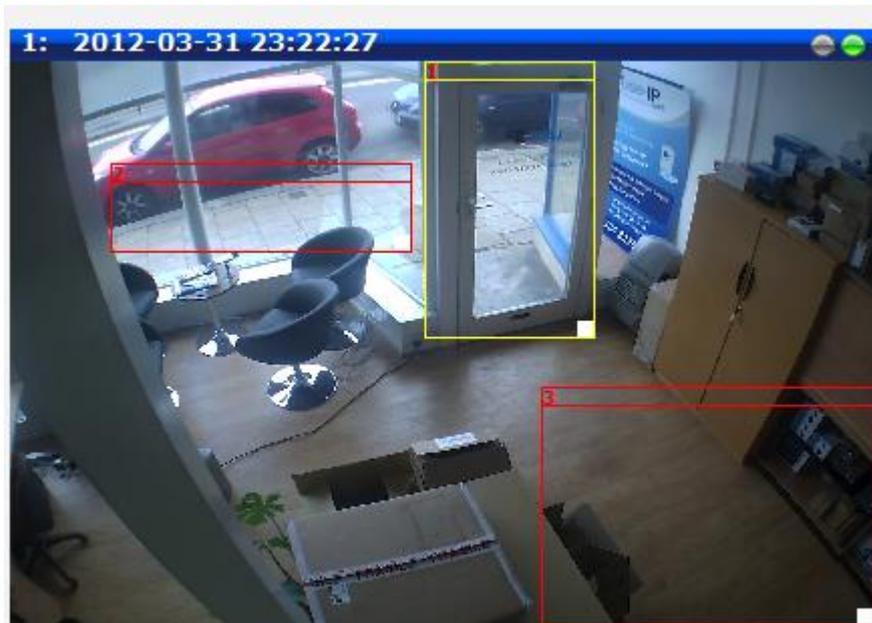
Region	Enabled	Sensitivity	Trigger Interval [s]	Trigger Threshold
1	<input checked="" type="checkbox"/>	100 ▾	1 ▾	10 ▾ %
2	<input checked="" type="checkbox"/>	100 ▾	1 ▾	10 ▾ %
3	<input checked="" type="checkbox"/>	100 ▾	1 ▾	10 ▾ %

Setup

Select 'Enable' on the first line (Region 1), set your sensitivity (we are using 100%), trigger interval (we are using 1 second) and trigger threshold (we are using 10%).

Region	Enabled	Sensitivity	Trigger Interval [s]	Trigger Threshold
1	<input checked="" type="checkbox"/>	100 ▾	1 ▾	10 ▾ %

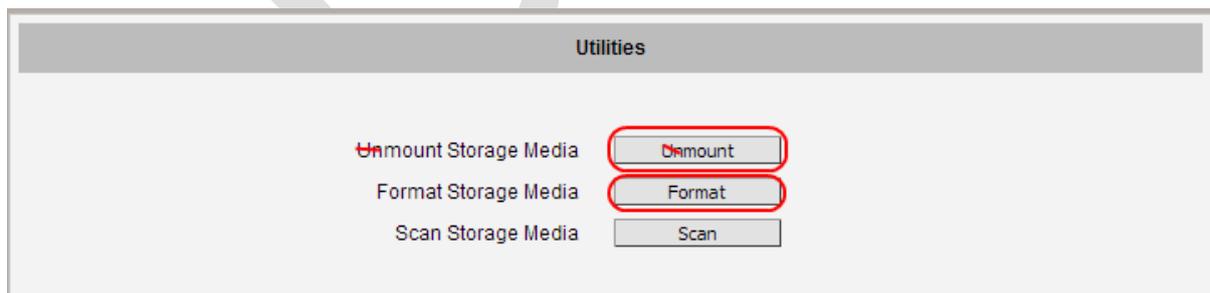
Now in the live view above a region window will appear. Scale and position this where you would like. Once you have done this click 'Apply' at the bottom of the screen.



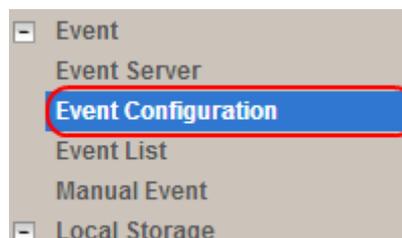
Now go back to the left navigation bar. Expand the 'Local Storage' tab, now select 'Utilities'.



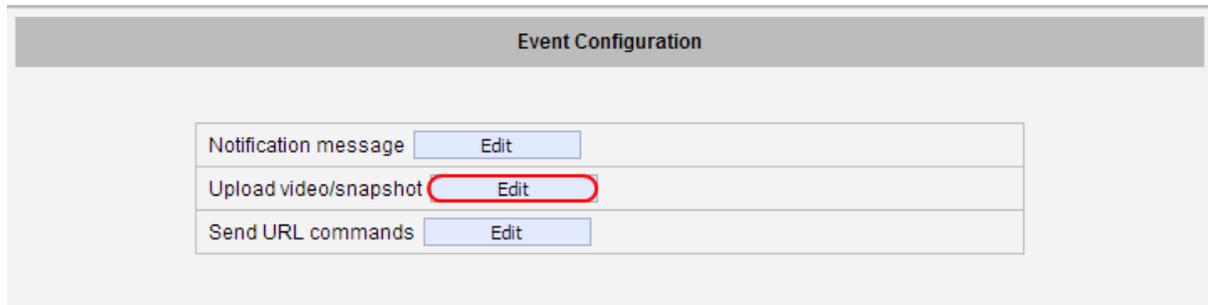
On this page you need to 'Format' and 'Mount' the SD Card. (NOTE: We have already mounted our SD card so we only have the option to 'unmount', but the mount option is in the same position.)



Once again go back to the navigation bar to the left and this time expand the 'Event' tab. Click on the 'Event Configuration' tab.

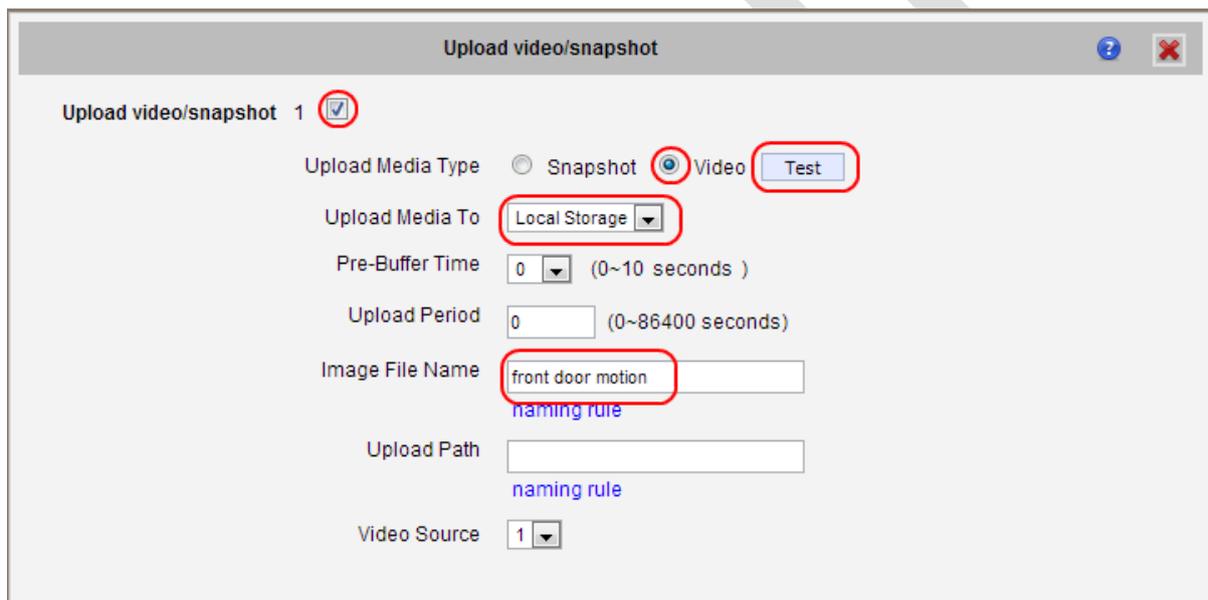


On this page next to 'Upload video/snapshot' click 'edit'.



Event Configuration	
Notification message	<input type="button" value="Edit"/>
Upload video/snapshot	<input type="button" value="Edit"/>
Send URL commands	<input type="button" value="Edit"/>

Here you now have various different options. Firstly make sure to check the box next to 'Upload Video/Snapshot'. Next choose if you would like a snapshot or a video upload (for this guide we chose video upload). Now choose 'Local Storage' from the drop down menu next to 'Upload Media to'. Lastly type into the box 'Image file name' what you would like the images to save as, e.g. 'Front door motion'. You can also test to make sure the save works by clicking 'Test', you can check it was successful by looking at your local storage file management (We will be looking at this later.) Once all settings are done click 'Apply' at the bottom of the screen.



Upload video/snapshot 1

Upload Media Type Snapshot Video

Upload Media To

Pre-Buffer Time (0~10 seconds)

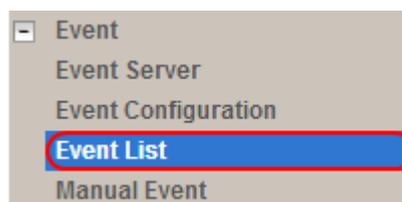
Upload Period (0~86400 seconds)

Image File Name
[naming rule](#)

Upload Path
[naming rule](#)

Video Source

Navigate back to the left navigation menu and expand the 'Event' tab again (should still be expanded from earlier). Now click 'Event list'.



- Event
 - Event Server
 - Event Configuration
 - Event List
 - Manual Event

On this page click on the ID '1' (blue box with the number '1' inside).

Event List					
ID	Week Day	Start	Duration	Source	Action
1	1234567	00:00	24:00	MD1	IMG1
2	1234567	00:00	24:00	MD2	IMG2
3	1234567	00:00	24:00	MD3	IMG3
4	1234567	00:00	24:00	SCH	NONE
5	1234567	00:00	24:00	SCH	NONE
6	1234567	00:00	24:00	SCH	NONE
7	1234567	00:00	24:00	SCH	NONE

On this page you have many different options, we have just stuck with simple options but you can customise them to suit you. Firstly make sure to check the 'Enable' box. Now select what day you would like it to be 'Active on' by selecting the days of the week (We selected all). The next two options 'Time' and 'Duration' we left as default. On the drop down menu next to 'Triggered by', select 'motion'. Now select which 'region' you would like it to detect from, for this guide it will be 'Region 1'. Lastly check the box next to 'Upload video/Snapshot' and select 'image 1'. Now click apply.

Event List 1

Enabled

Active on Mon Tue Wed Thr
 Fri Sat Sun

Time 00 : 00

Duration 24 : 00 (max. 168:00 hours)

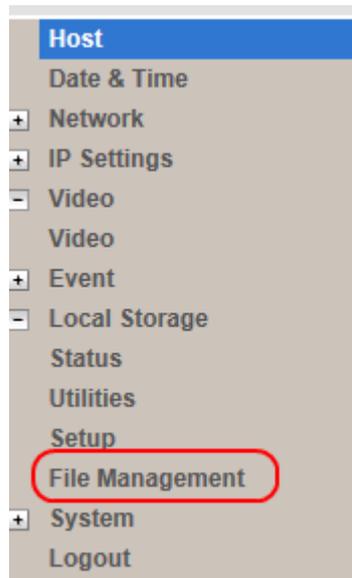
Triggered by Motion

Trigger by Motion Region 1 Region 2
 Region 3

Response To Send notification message
 Upload video/snapshot
 Image 1 Image 2
 Image 3
 Send URL command

Apply Reset

Now that all settings have been set, go back to the navigation bar and expand the 'Local Storage' tab and select 'File Manager'.

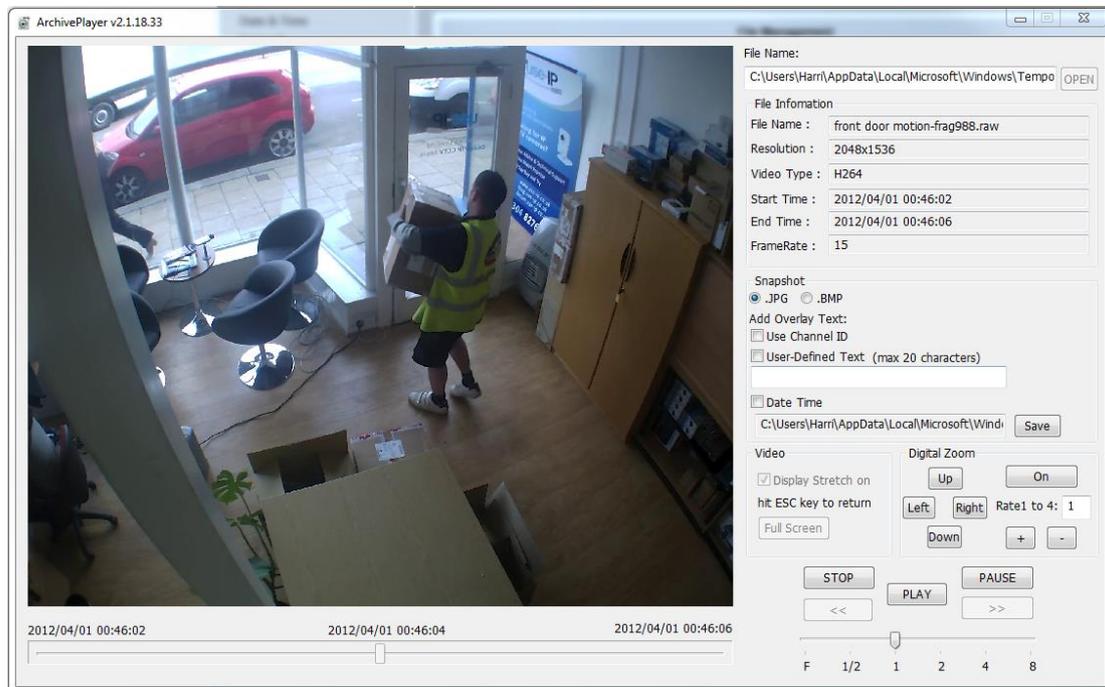


On this page click 'search'. Your test image/video from earlier should now be in this list below. A good way to test that the motion detection is working, is by walking in front of the camera into the region area and wave (do this a few times), then come back to the 'File Manager' click 'Search' again and the files should be there if not double check your settings.

A screenshot of the 'File Management' interface. At the top, there are two checkboxes: 'Search recordings by time' and 'Search recordings by triggered events', both of which are unchecked. Below these is a 'Search' button, which is highlighted with a red rounded rectangle. The main part of the interface is a table with the following columns: File Name, Start Time, Length (min.), Events, and Status. The table contains 18 rows of data, each representing a recording. The first 17 rows are motion-frag files (e.g., 'front door motion-frag942.raw') with various start times and lengths. The 18th row is a 'snapshot.jpg' file. At the bottom of the table, there is a pagination control showing '1 / 57' and a 'Remove' button.

You can save these files from your SD card by clicking on the file. As you will notice the video files are in a native '.raw' format. You will need to download the ACTi Archive Player to these videos and to convert them to an '.AVI' format you will need the 'ACTi Media Converter'. Which are both available from here (FREE of charge): http://www.acti.com/ip_utility .

Here is what the Archive Player looks like in action:



Here's what the media converter looks like:

