

# How to set up the software for Ear Switch as a “left click” mouse function via iSpy eg for control with Headtracking (eg eViaCam)

26/12/19: version 1

## Download:

eViaCam (for Headtracking) or other eye or headtracking setup

Autohotkeys (free)

iSpy (free)

## Install Autohotkeys

After installed:

Create New Folder in My Documents: “Ear Switch”

In folder Right click & select: “New Autohotkey script”

Paste in the following:

```
#NoEnv ; Recommended for performance and compatibility  
with future AutoHotkey releases.  
; #Warn ; Enable warnings to assist with detecting  
common errors.  
SendMode Input ; Recommended for new scripts due to its  
superior speed and reliability.  
SetWorkingDir %A_ScriptDir% ; Ensures a consistent  
starting directory.
```

Click

Save as: “Ear Switch Left Click Function” or similar

## Install iSpy

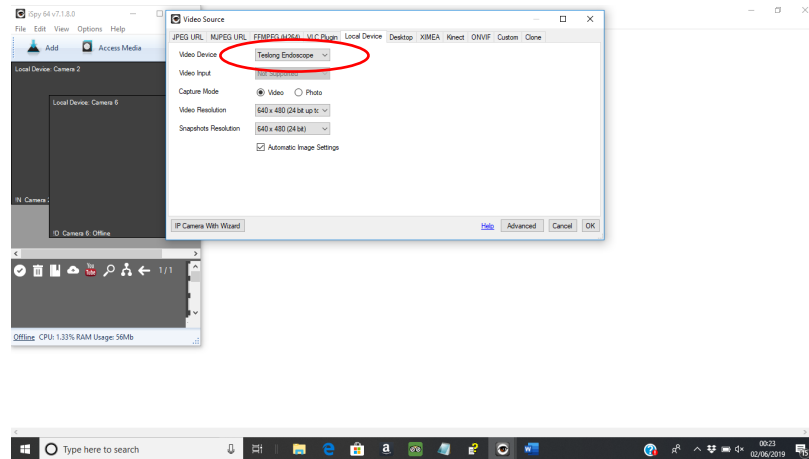
Change settings by:

Plug in USB Oscope

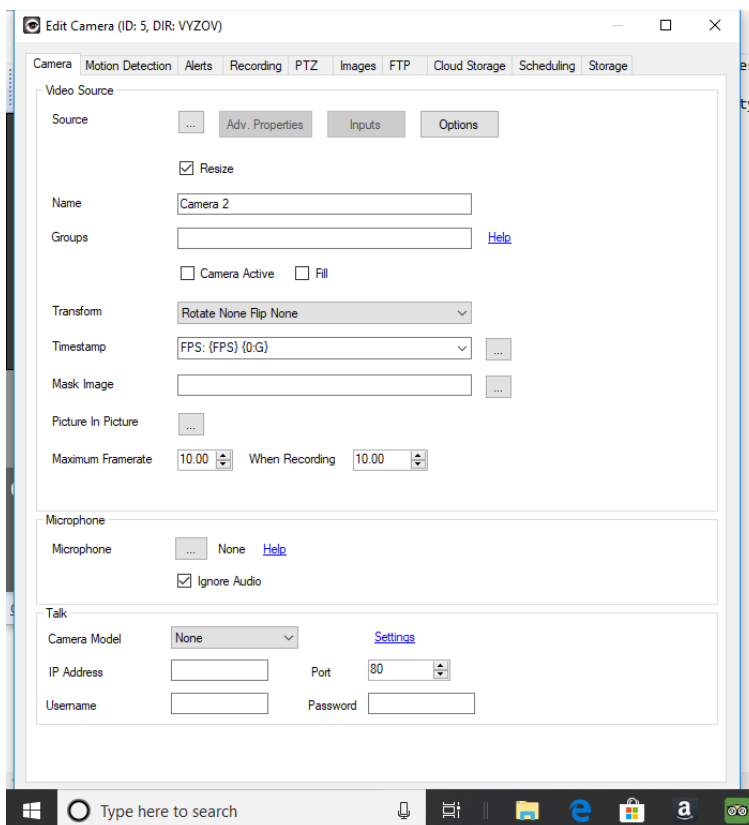
Click Add:

Select Local Camera

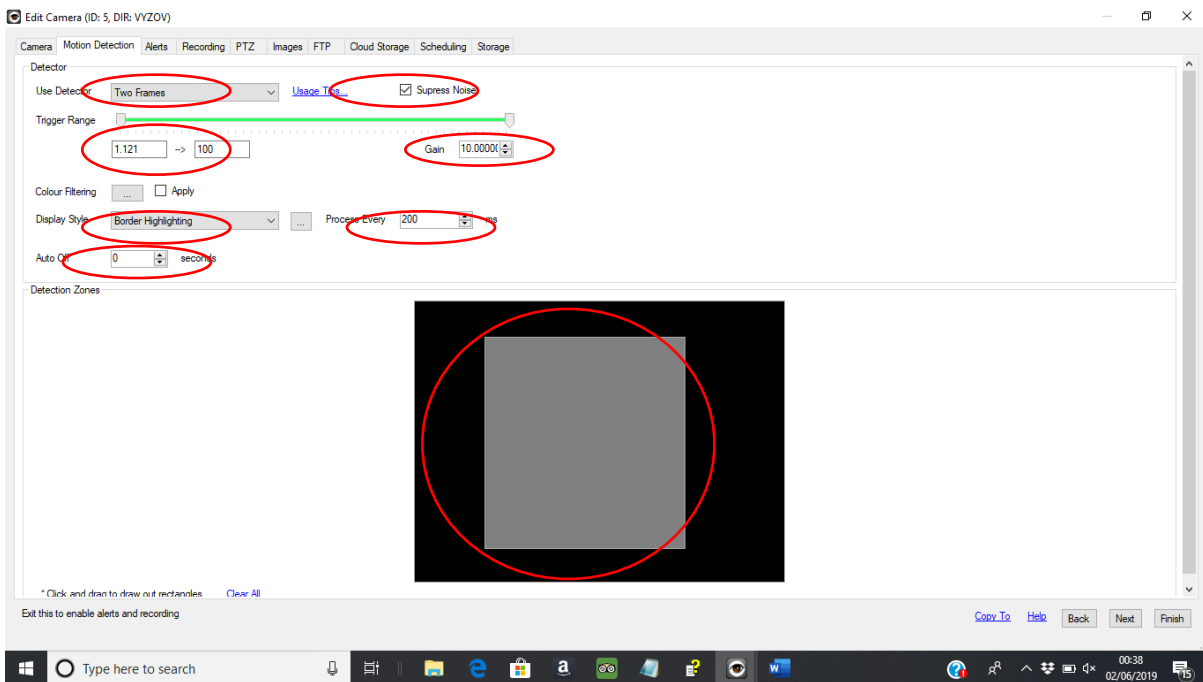
Drop down box & select: Teslong Oscope



Change the settings as shown below:



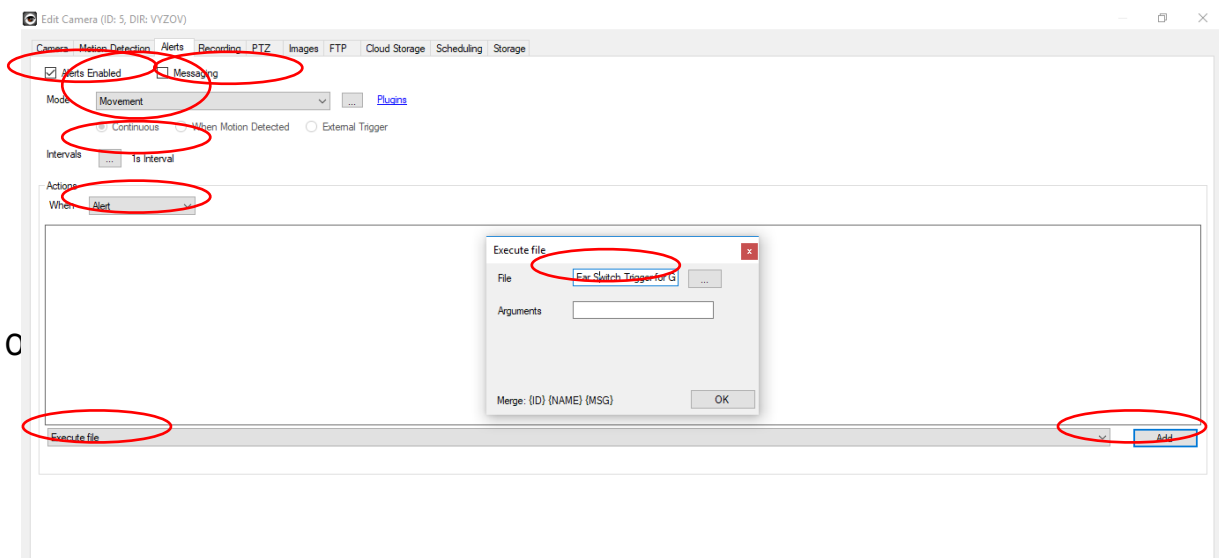
Change settings as shown below in “Motion Detection” Tab and “Click and Draw” a square similar to below:

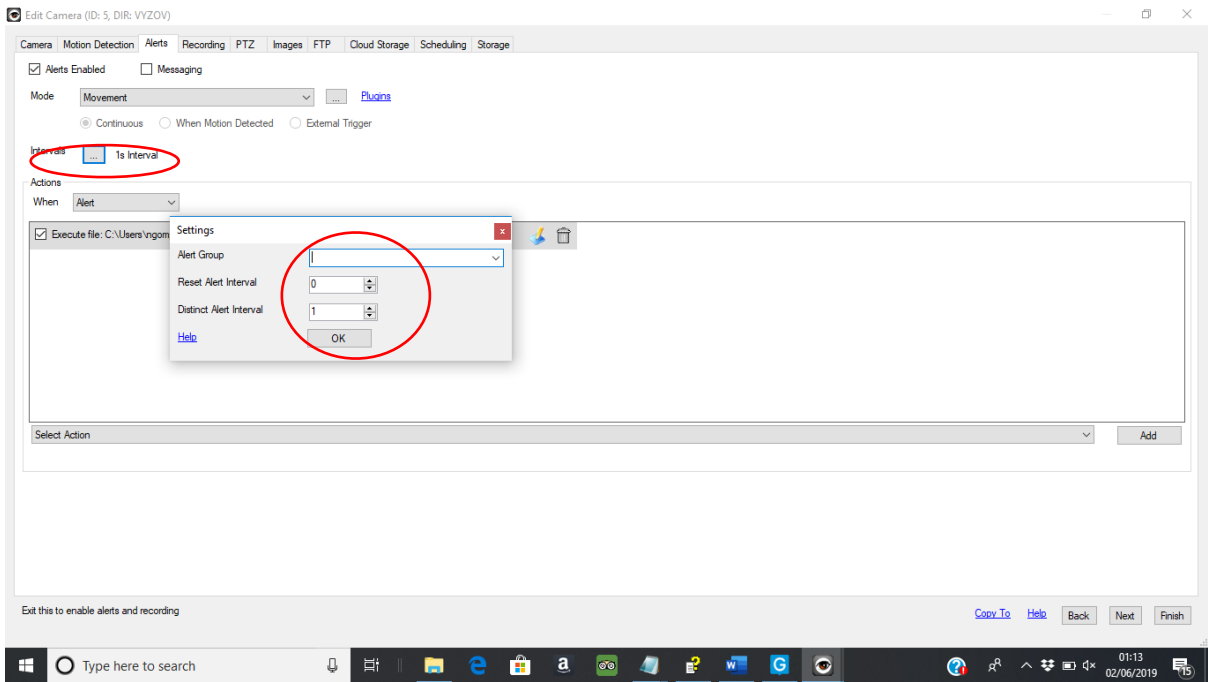


Make changes on “Alert Screen” as shown below

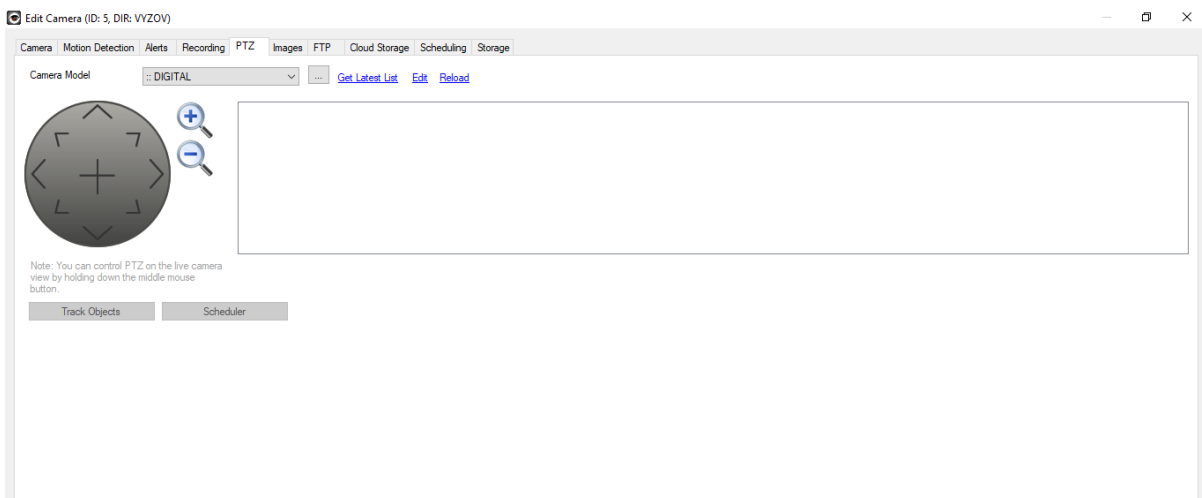
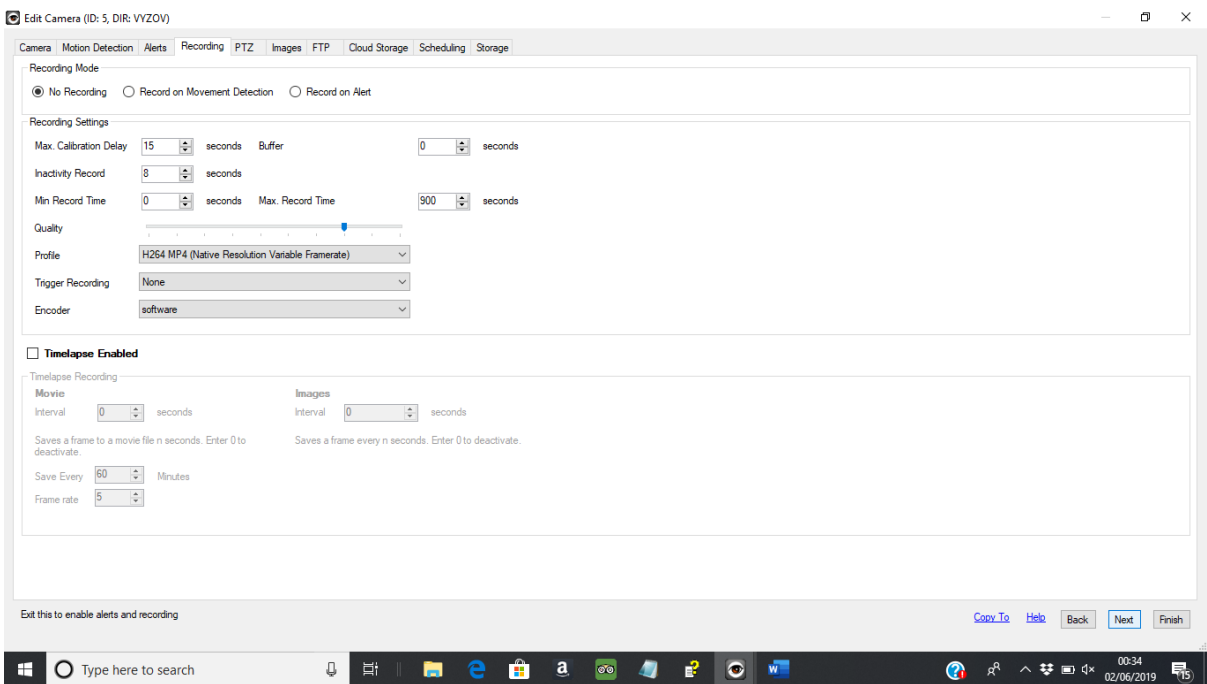
Including “Add Alert”

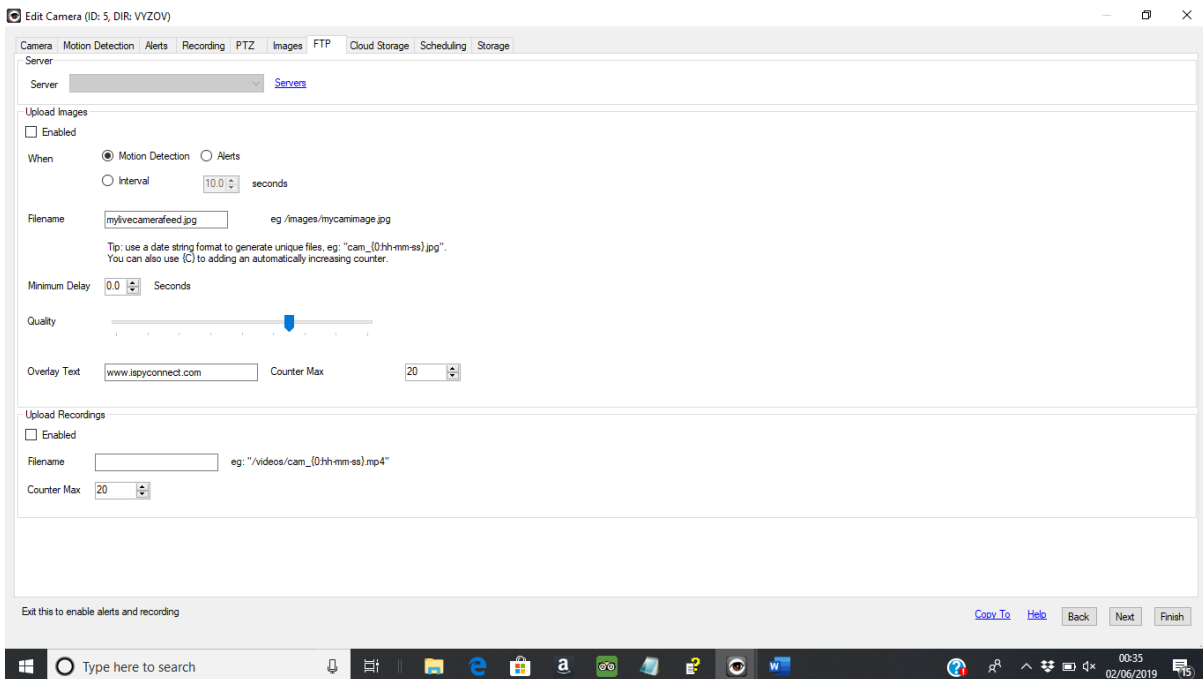
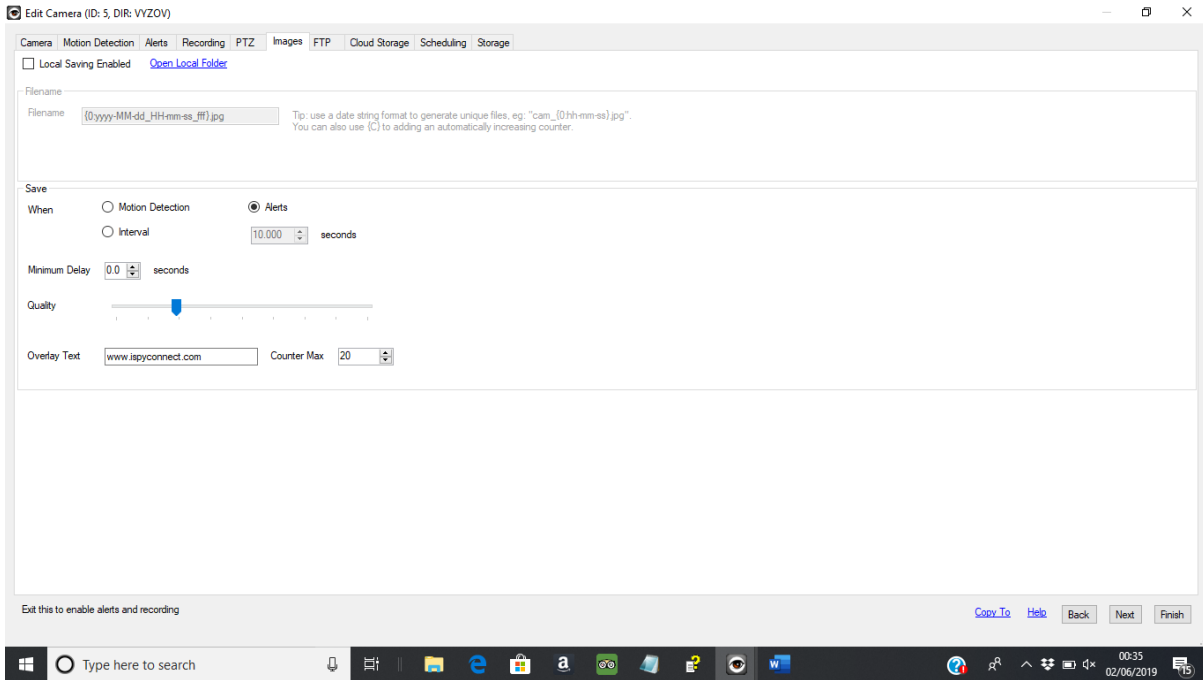
Select “Execute File”, and select Autohotkey file as previously saved: eg “Ear Switch Left Click Function” (NOT shown below)

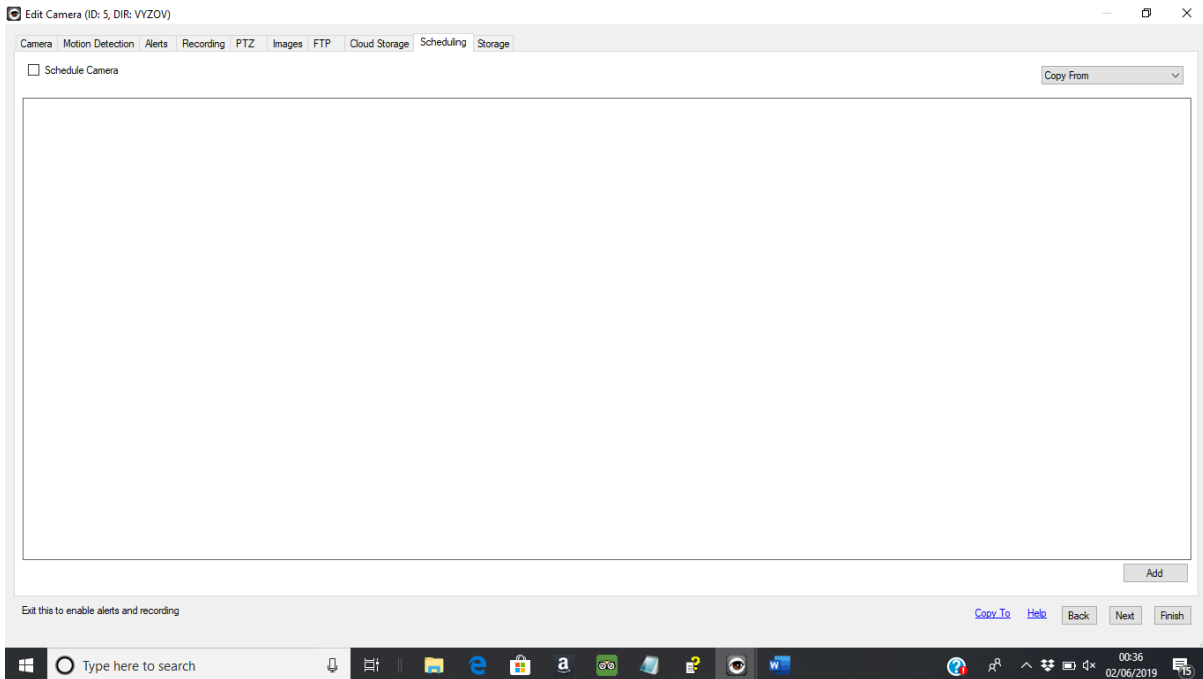
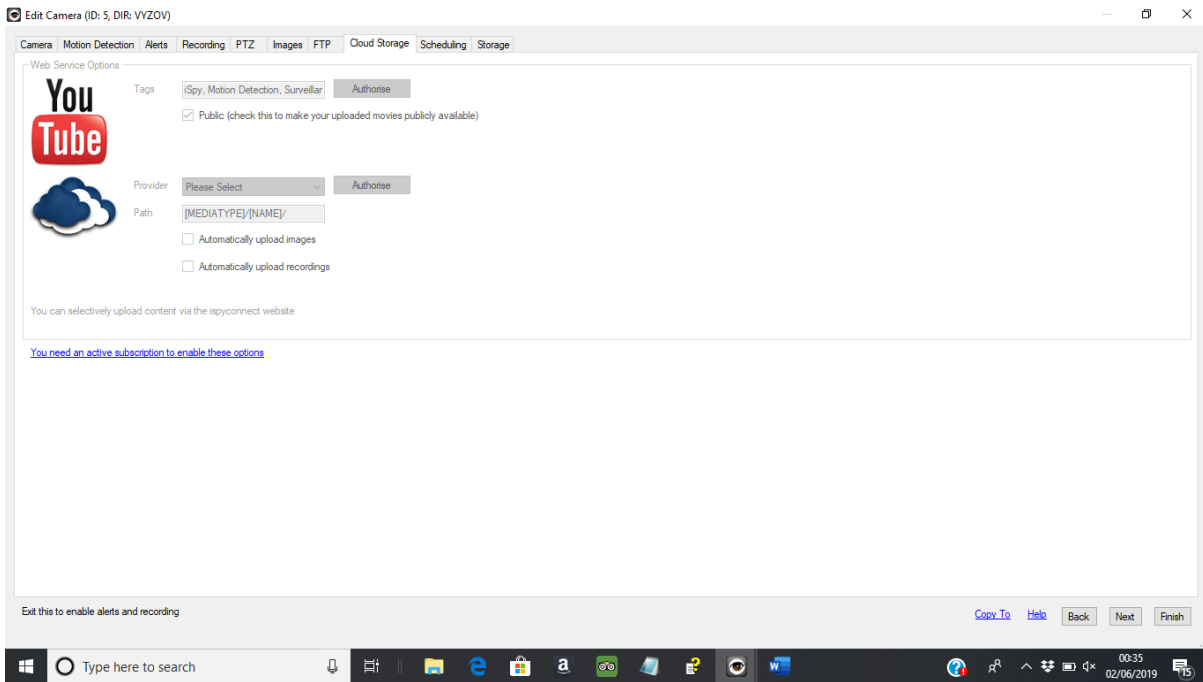




Other setting tabs likely to be default ; but see below - eg “No recording” etc







Click Finish

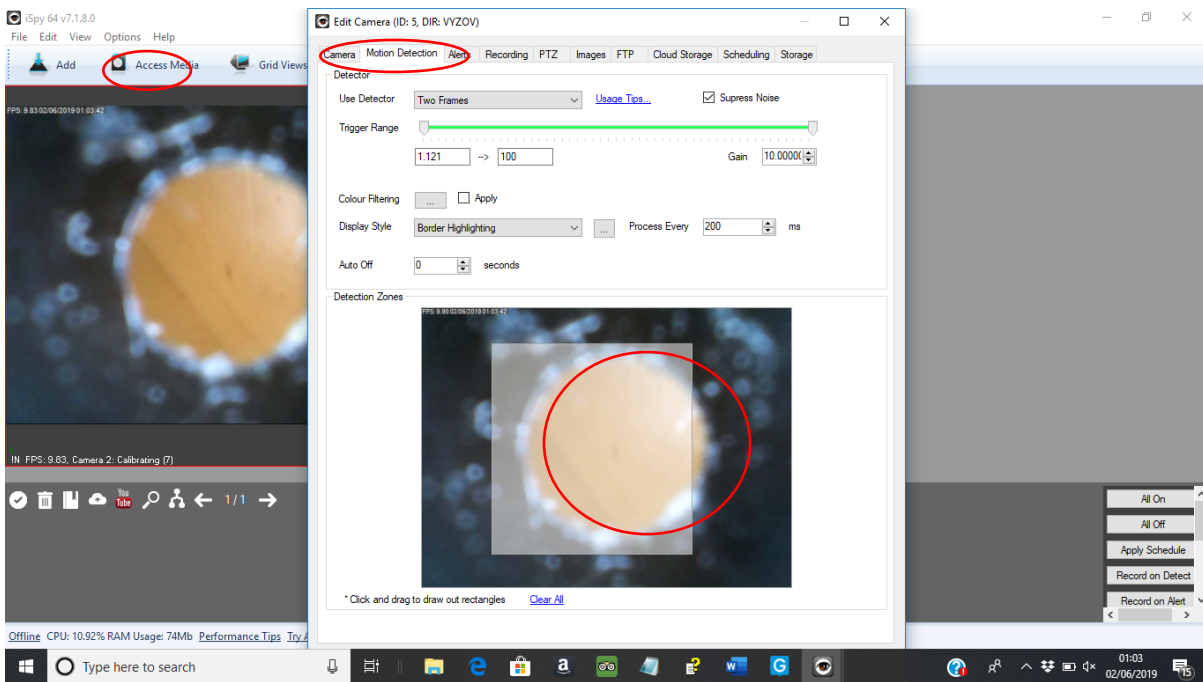
Hover over the “Camera Window” on iSpy

Ensure Camera is on; i.e. Highlight the “Lightening” icon

Select the Edit “Cog” icon

Select “Motion Detection” tab

Ensure that the detection square is positioned over the central image & redraw if necessary



## Using the Ear Switch as a “Left-click”:

Open iSpy

Insert USB from otoscope into PC

Put otoscope into ear using ear hook to retain

Select auroscope speculum of the correct size to retain in the ear using ear-hook (bent to fit)

Ensure good view of drum

Position lead around neck down opposite side of chest to support the lead

Open eViaCam or similar head or eyetracking set up

Contract tensor tympani/ “ear-rumble” as a “left click”

Nick G

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