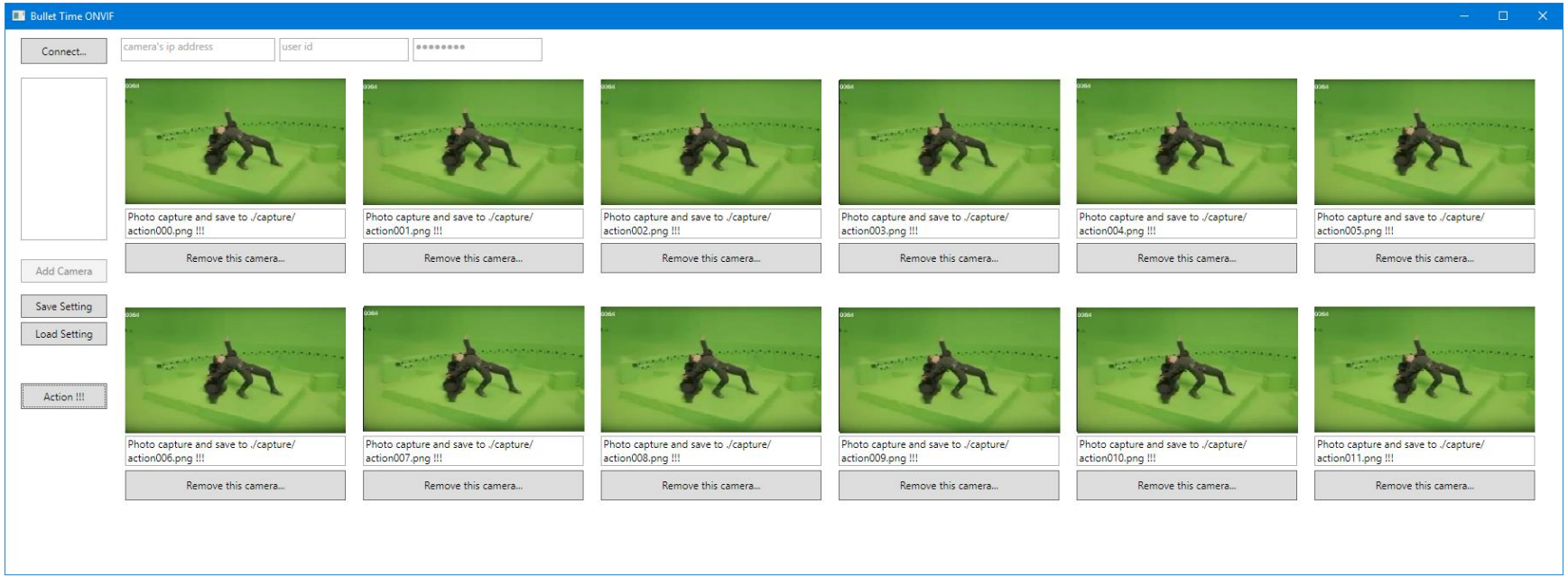


The Issues

Bullet time is a visual effect or visual impression of detaching the time and space of a camera from that of its visible subject. Its make famous by the Matrix movie. To make a high quality Bullet Time user usually require to purchase very good and expensive SLR HD cameras (> 120 qty), linked them up via proprietary network and synchronize them to fire the shot..

Our Magic Solution

Use ONVIF HD cameras instead. Juz purchase ONVIF HD camera linked them up via local giga Ethernet network switch and our run Bullet Time ONVIF app!!!

Who said ONVIF camera must be only use for security industrial!!! It can be also uses for movie industrial too and have fun too!!! ☺

How it works

Bullet Time ONVIF is a Windows Desktop App to allow user to create Matrix style movie shots using ONVIF cameras.

Bullet time (also known as frozen moment, the big freeze, dead time, flow motion or time slice) is a visual effect or visual impression of detaching the time and space of a camera (or viewer) from that of its visible subject. (https://en.wikipedia.org/wiki/Bullet_time). Its make famous by the Matrix movie. (https://www.youtube.com/watch?v=bKEcElcTUMk)

To make a high quality Bullet Time user usually require to purchase very good and expensive SLR HD cameras (> 36 qty), linked them up via proprietary network and synchronize them to fire the shot.

Now with the advancement of ONVIF HD cameras, user can simply purchase them at low cost, linked them up via local giga Ethernet network switch and run the Bullet Time ONVIF app.

Who said ONVIF camera must be only use for security industrial!!! It can be use for movie industrial too ☺

The app will link up all the ONVIF cameras and user needs just need to fire the shots via simply clicking the Action!!! Button.

Upon clicking the Action!!! Button the app will perform a snapshot of the current video of each ONVIF camera video and save the image to the

sub folder named “capture”.

All the images file are named actionXXX.png where XXX is the camera number.

All user need to do is to merge all the images file using video editor application to generate the mpeg movie file.

There is also a free open source tool FFfmpeg to perform the merging.

FFmpeg

https://ffmpeg.zeranoe.com/builds/

download the static standalone exe (ffmpeg.exe) and place them on the folder will do.

Execute the command

ffmpeg -i ./capture/action%03d.png -pix_fmt yuv420p output.mpg

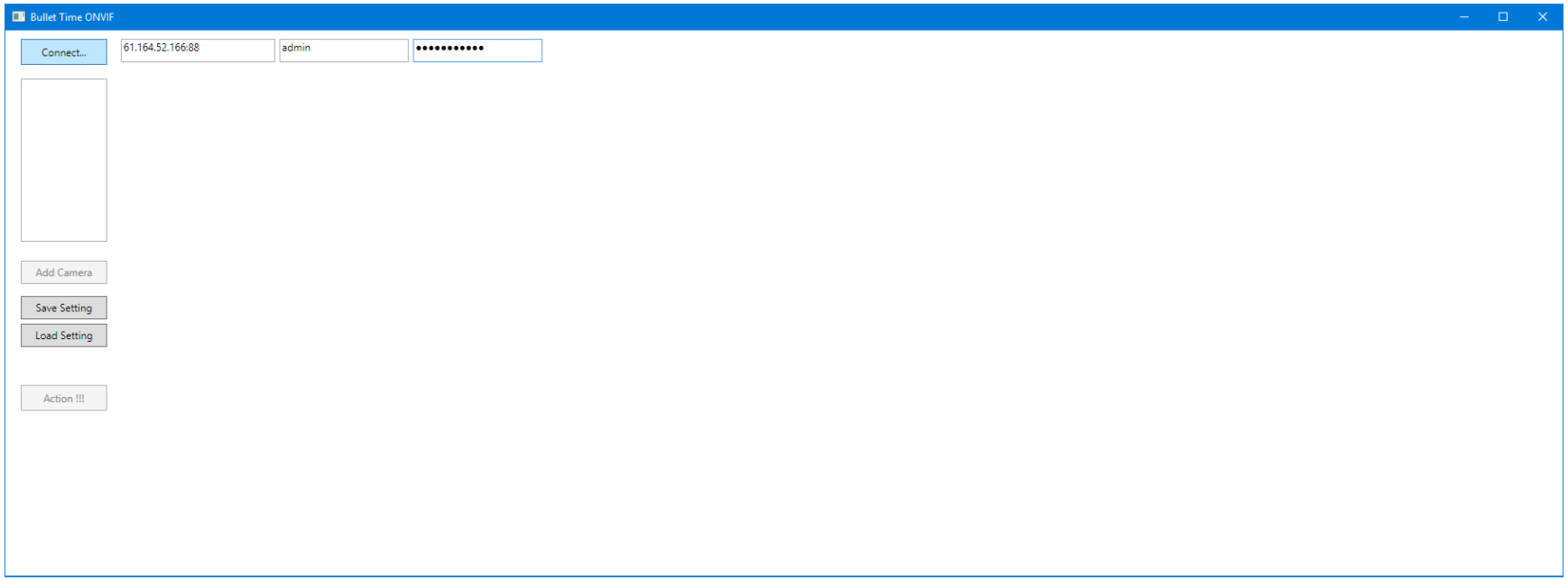
The app require the following library

VLC player

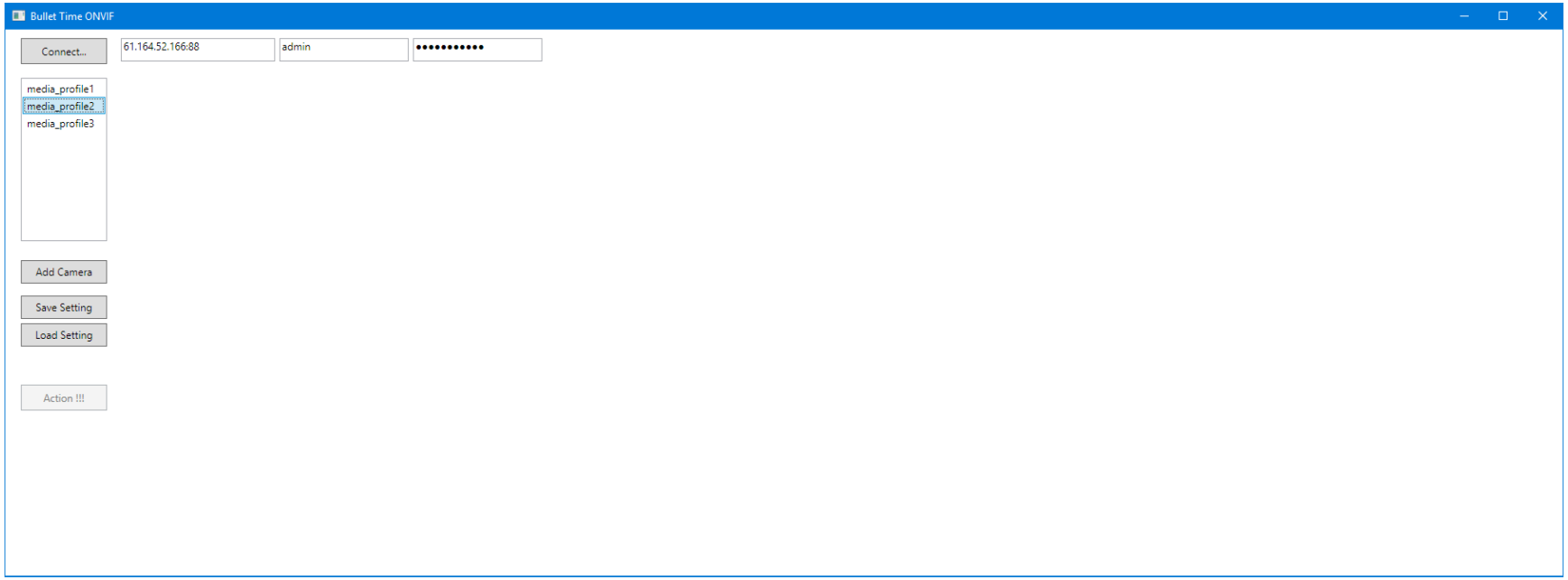
https://www.videolan.org/vlc/download-windows.html

Detailed Operation

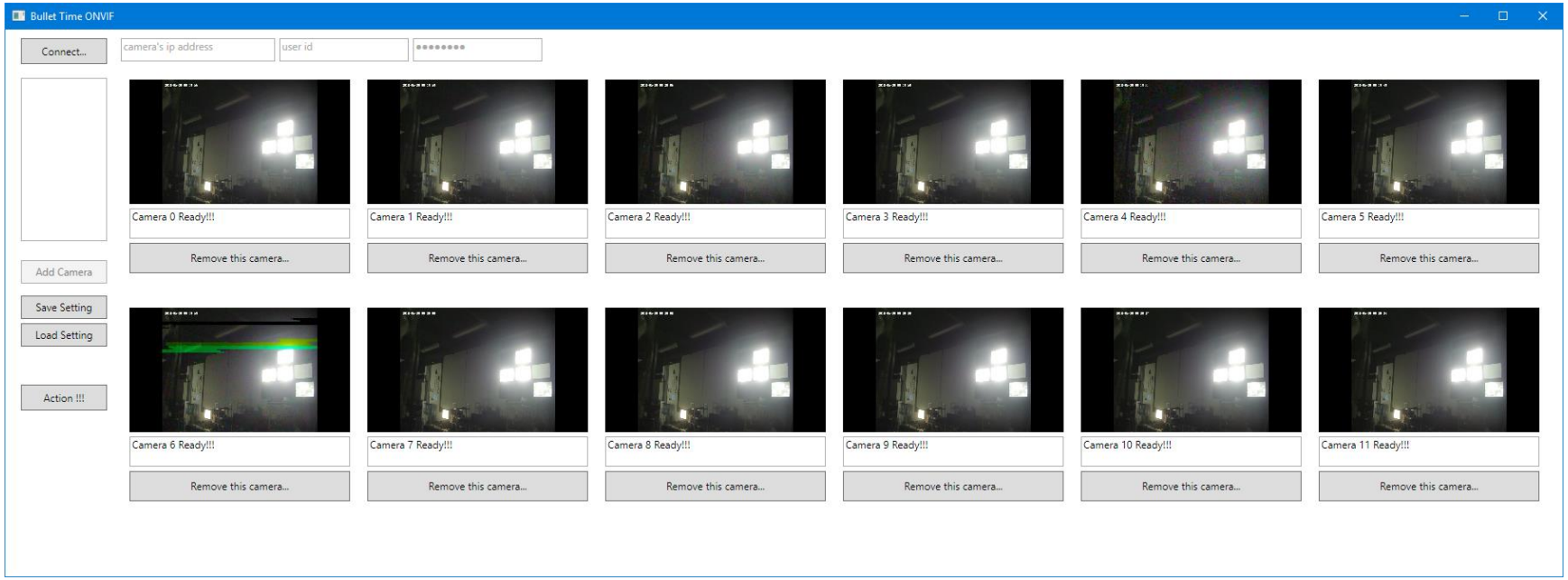
Launch the app BulletTimeOnvifVideo.exe, enter the ONVIF camera's ip, user id and password and click connect button.



Select the desire profile and click Add camera button.

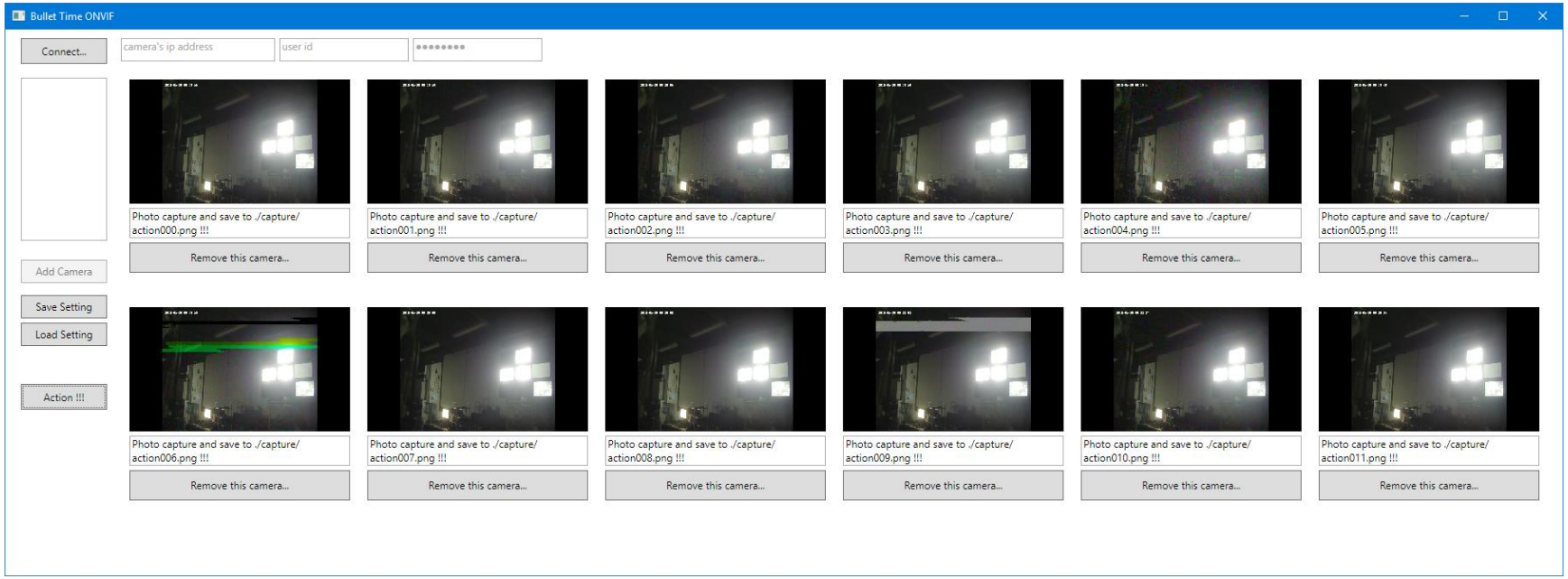


Repeat the above 2 steps for all the rest of the ONVIF cameras.



You can save the setting for future use via the Save Setting button.

Click the Action !!! button to take the desire shots.



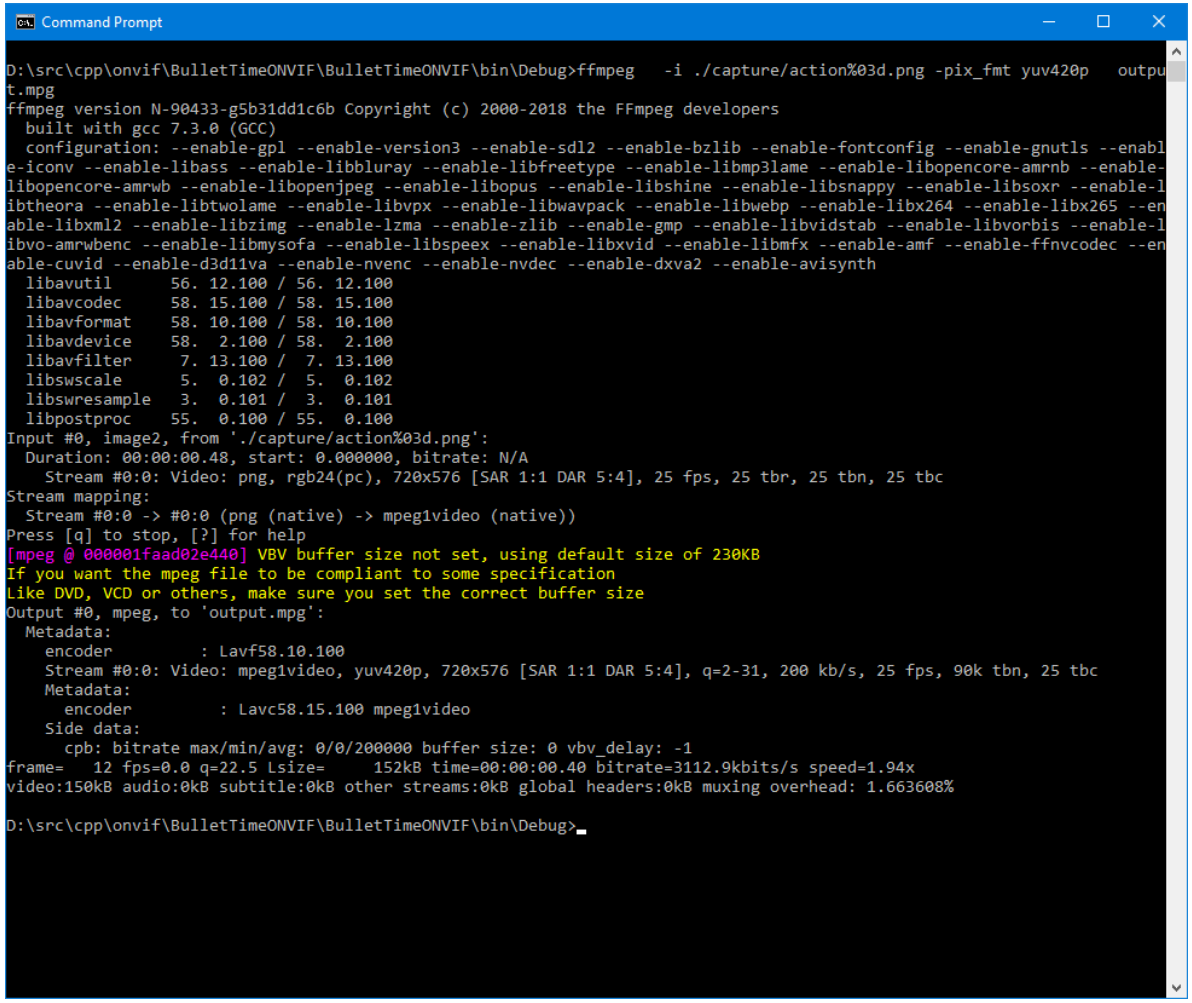
And all the camera images will be saved to “capture” sub folder located with the BulletTimeOnvifVideo.exe.

The images are named actionXXX.png where XXX is the camera number.

Merge the images files using the free open source tool Fffmpeg tool avaiable from https://ffmpeg.zeranoe.com/builds/ and copy it to the BulletTimeOnvifVideo.exe folder.

Execute the command in command prompt.

ffmpeg -i ./capture/action%03d.png -pix_fmt yuv420p output.mpg



Ta Da!!! Enjoy Bullet Time shooting!!! ☺

Further Improvement

Incorporate built in image merging and MP4 movie generation function into the app. Instead of using external open source tools/commercial tools

Thanx you