

NOTES & OBSERVATIONS

Setting Up & Using Kinovea Video Capture & Playback Software



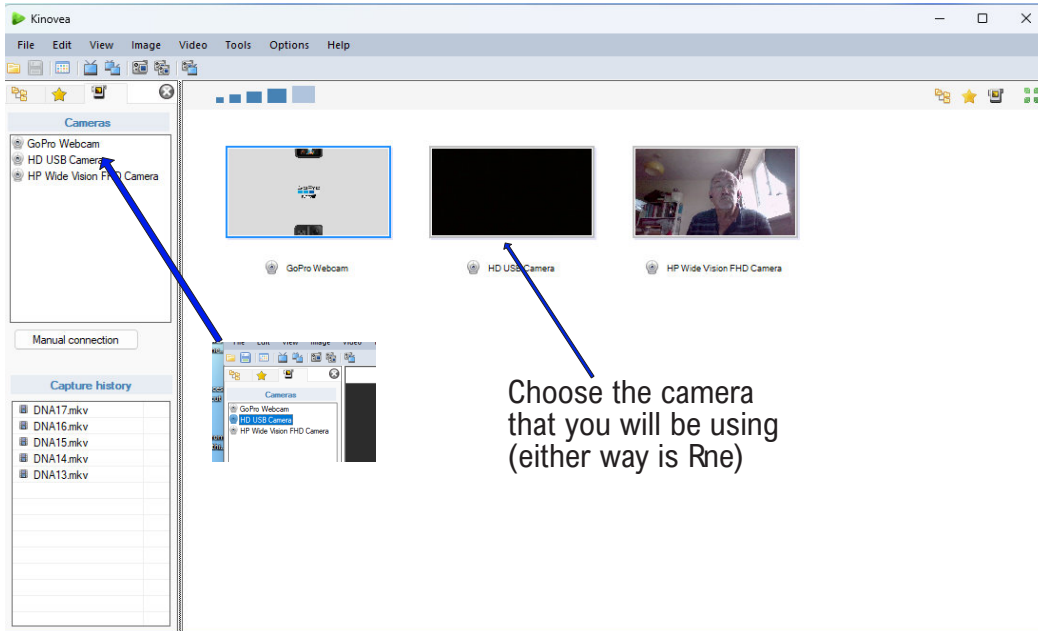
Introduction

Since November 2021 World Athletics and UKA have introduced a change to the Horizontal Jump Takes-Off rule and also indicated that technology should be used whenever it is possible to do so.

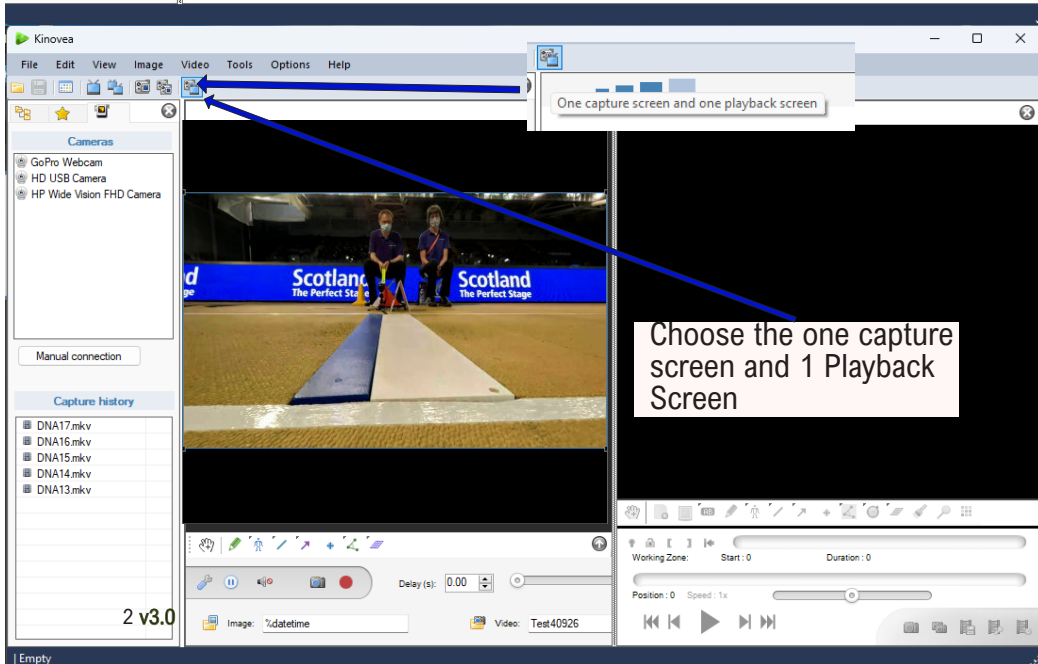
Rule 29 General Conditions – Horizontal Jumps

If you do not have Kinovea installed you can download the software, free of charge, from <https://www.kinovea.org>
 Once installed Choose Kinovea from the Start Menu and the screen below will appear

Setting the camera, capture and playback screens



Choose the camera that you will be using (either way is fine)

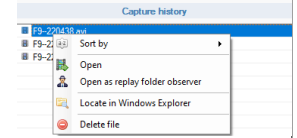


Choose the one capture screen and 1 Playback Screen

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Setting the Replay Folder

Right click on any Filename and then click on **Open as Replay Observer Folder**
 This will then automatically open continuously replay the latest captured video.



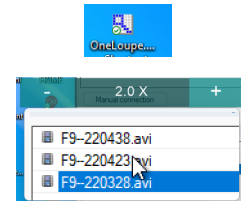
Using the External Single Capture Button

You may use a system that has an external large button setup. This enables the user to use a single press to start the recording

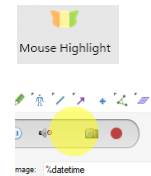


Useful Extra Software to Help with the System

OneLoupe - provides a simple magnifier to help with reading the filename of each recording.

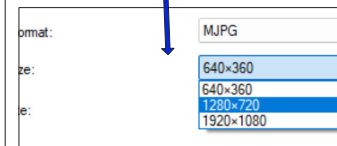
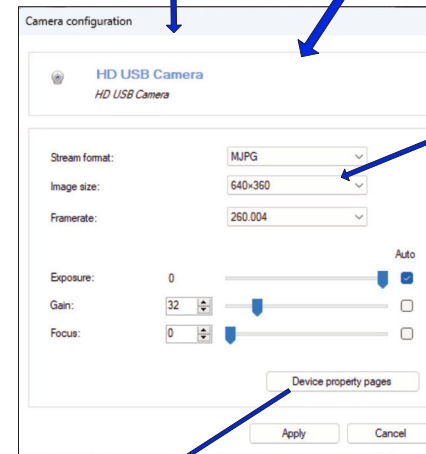
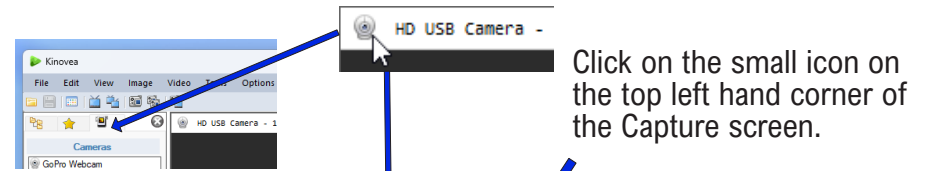


Mouse Highlighter - provides a coloured circle around the mouse pointer to help the user find the pointer especially in sunlight.

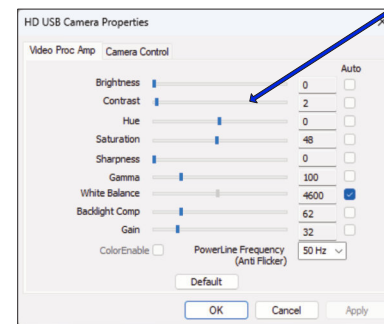


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Setting the picture size and frame rate

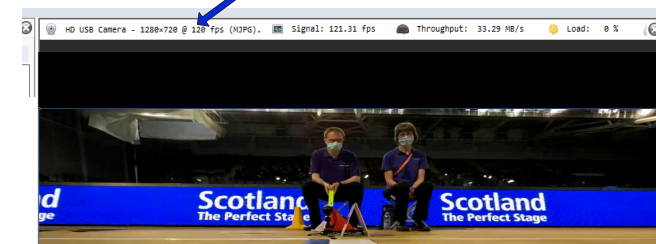


Clicking on the Device property pages will bring up the window shown below. You can use this to alter various settings



Finally click on the Apply button to save the settings

You should now see the picture size and the frame rate you have selected (1280x720 @ 120fps)



Setting the preferences for capture and playback

Go to **options** on the main toolbar and choose Preferences

Set this to the

Selecting these 2 option allows you to have the software running twice, which means you could have 2 camera on 2 different boards for a Triple jump

The main aim of using this technology is to to **assist** the Judges in deciding the application of Rule 30.1 , not to replace them.

Ideally there should still be a judge on the board with flags and only if he/she is unsure or a protest is made should the judge operating the technology be part of the decision making process along with the Chief Judge/Referee

Finally

After each event is finished you may wish to copy or move these video files to an external drive/memory stick. This will help free up disk space on the computer and will allow further reviews to be made and or for training purposes.

The more memory you can allocate to the playback screen the better the playback processing and speed will be

The settings shown here are for use with the ELP HD Digital Camera, this can capture and replay at a rate of 120 frames per second (fps). This is the best mode for frame by frame review if required. (see page 2 for a description of this.)

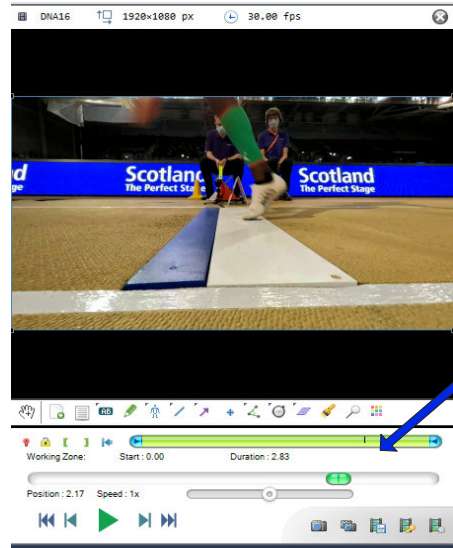
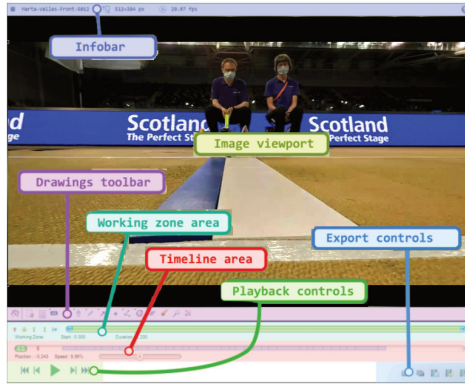
The Razer Kiyoo Pro - USB Streaming Camera should be set at 60fps (it's maximum frame rate)

Other small cameras usually only capture and playback at 30fps

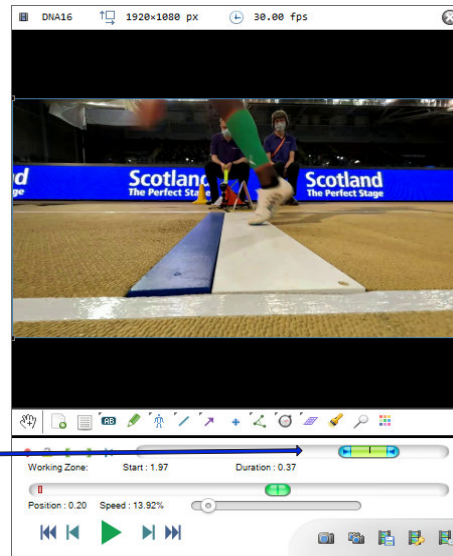


Reviewing

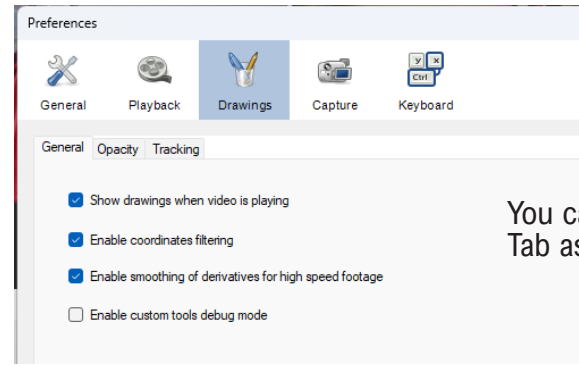
The Review Screen controls



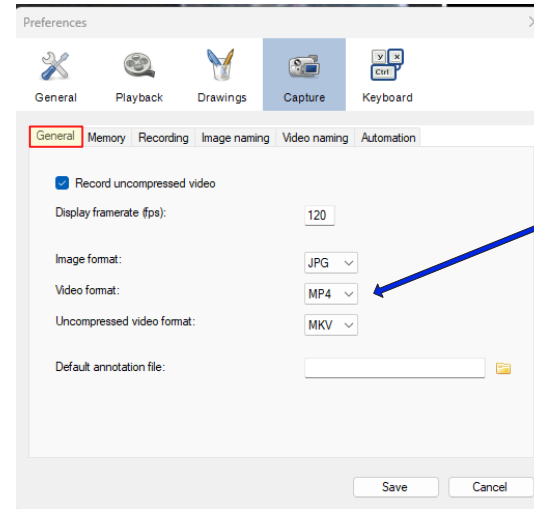
The playback screen allows you to play any recording forwards and backwards at any speed you like, including frame by frame



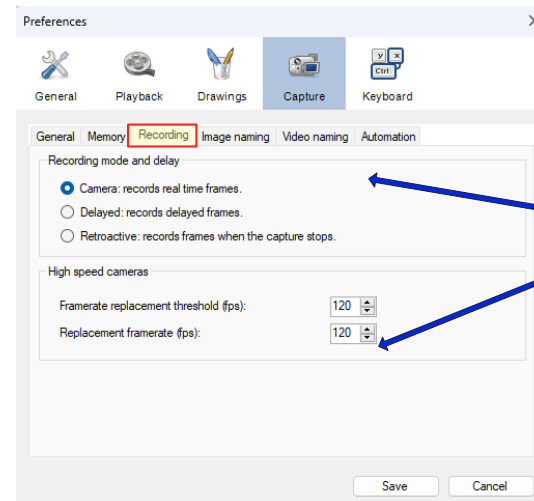
A very handy option allows you to select only the second you need to review without having to worry about going back and forwards too much



You can leave the settings on this Tab as they are for the initial setup



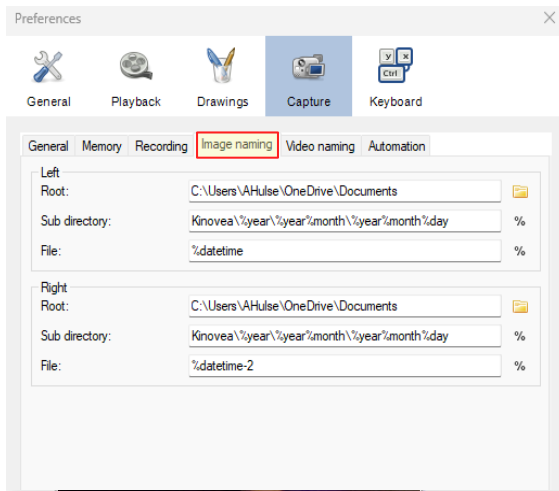
Record Uncompressed video gives the best quality



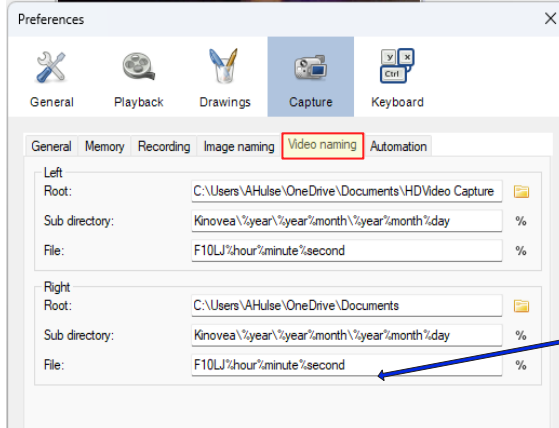
It normally set the camera to record live frames and set the frame rates at 120 (Or 60/30 depending on your camera)

Capturing and Reviewing the Action

Capturing



This tab allows you to set where you want any images to be saved and also how you want them to be

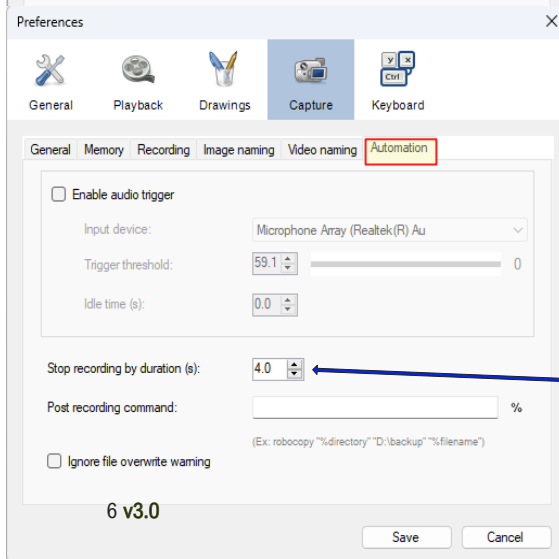


You tab allows you to set where you want the videos to be saved and also how you want them to be named.

This screen shows
F10LJ%hour%\minute%\second

Event No. (F10) | Event (Long Jump) and then the time it was recorded

E.g. FJ10190652.mkv

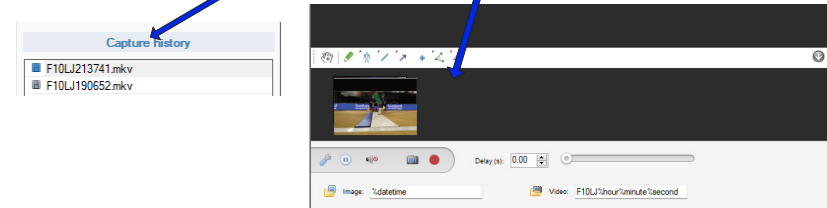


By setting the Stop recording duration to 4 seconds should record all the video you need and you don't need to worry about stopping the recording yourself.



This is the simplest part of the whole process, once the athlete is about 10metres from the board just click on the **RED** record button.

The system will record 4 seconds of video and the name of the created file will appear in the Capture History and also in the capture window just above the record button



If you want to review the latest, (or any other), recording simply double click on the appropriate filename in the capture History pane or on the capture window (see above)

Depending upon how long the video is and the speed of your computer it may take a few seconds for it to finally appear in the Review window. (see page 8 for the Review process)