



CARE SYSTEM MANUAL

REFEREE VIDEO REPLAY

August 15, 2022

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INTRODUCTION

The guide below is intended to provide a basic overview of the setup process for the IJF CARE system software 1.0.13 and hardware available in Canada.

As there are currently several sources for this equipment, some connection methods may slightly vary.

This guide will outline the full connection of equipment available from Judo Canada. It is recommended that if you rent a CARE system for an event, it would be set up and tested prior to use on the day of the competition to allow time for troubleshooting.

Any technical questions are welcome and can be directed to Franck Moussima (f.moussima@judocanada.org)

COMPONENTS

System Requirements (per mat) are listed below. When using a CARE system for an event please ensure you have enough cable length to cover your event's mat area, and sufficient power cables to reach each mat table and desired camera position.

- Laptop loaded with IJF CARE software x 1
- Camera Sony :<https://www.sony.fr/electronics/support/memory-camcorders-hdr-cx-series/hdr-cx405/specifications> x1
- Camera tripod x 1
- Micro HDMI to HDMI cable (length depending on location)
- Camera USB extension and USB charger x 1
- Blackmagic H.264 adapter and power supply x 1
- Mini-USB to USB cable x 1
- Power cables to both judges' table and desired camera location



Laptop loaded with IJF CARE software



Camera Sony Model HDR-CX405/455



Camera Tripod



Micro HDMI to HDMI cable



Camera USB extension



USB charger



Blackmagic H.264 adapter



Blackmagic H.264 power supply

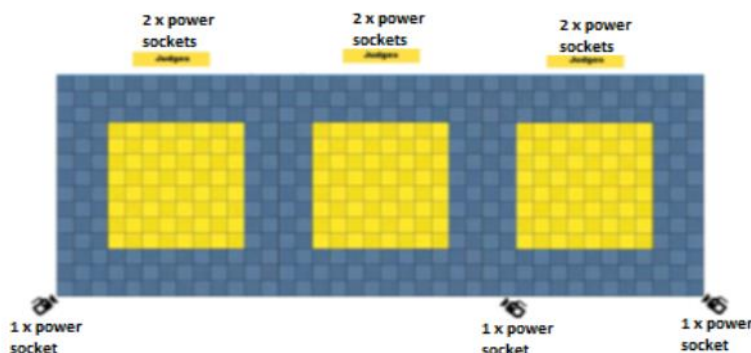


Mini-USB to USB cable

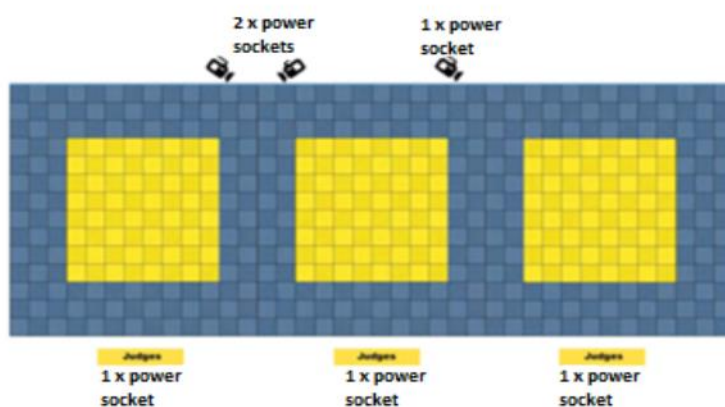
POSITION OF CAMERAS, JUDGES & POWER

Since one CARE system is used per competition area, it is preferable to locate the camera on the opposite corner from the judges' table, to allow for an alternative angle of scrutiny. Room size, number of competition areas, length of cable and availability of power sockets may limit camera position. Below is an example with two options showing an ideal set up for a 3-mat competition with locations of required power sockets for one CARE system per competition area (a) and (b).

a)



b)



The power sockets at each mat table noted are for CARE system requirements only. If you are using powered scoreboards or a combination of laptops / screens additional sockets will be required for these devices.

Cable running from the camera locations to each table must ideally not run under the tatami, as this could both damage the cable and create a raised area under the mats.

CAMERA SETUP

There is one model of camera provided with CARE systems from Judo Canada. Connection is explained below.

Judo Canada Sony Camera HDR-CX405/455

- 1) Remove the lens cap and attach camera base to tripod base plate by screwing onto the base of the camera body (pictured below).



- 2) Attach USB extension cable to the camera (handle side, pictured below) and connect to a USB plug adapter.



- 3) Attach micro-HDMI to HDMI cable to the camera side body behind the view finder flap (pictured below)



ADAPTER & LAPTOP SETUP

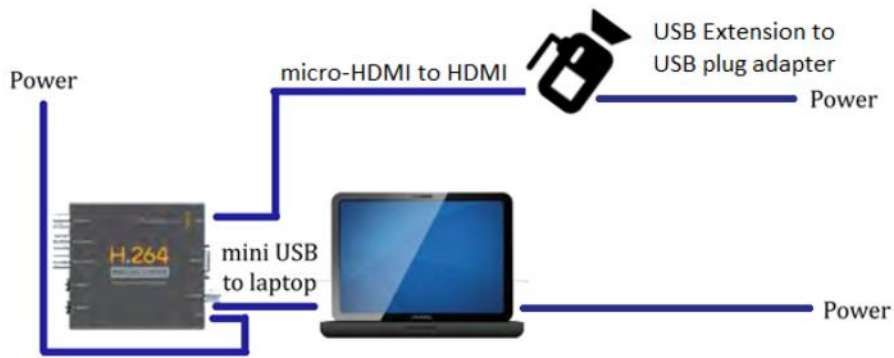
Connect the laptop and Blackmagic H.264 adapter, ensuring the system is connected before opening the IJF CARE software.

- 1) Connect laptop to its power supply.
- 2) Connect the Blackmagic H.264 to its power supply (left connection port pictured below).
- 3) Connect mini-USB cable from the Blackmagic H.264 to USB Port on the laptop (2nd from left connection port pictured below).
- 4) Connect micro-HDMI cable from the camera position to HDMI Port on the Blackmagic H.264 (5th from left connection port pictured below).

Note: If you are using an additional HDMI cable (extension), make sure it is properly connected to an adapter(female-female) and the cable is plugged in the right direction if it's unidirectional.



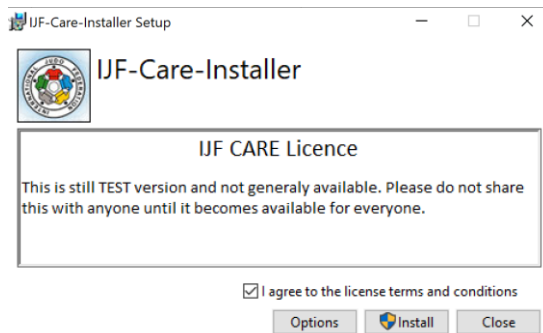
Below is a diagram showing signal connection from the camera to laptops.



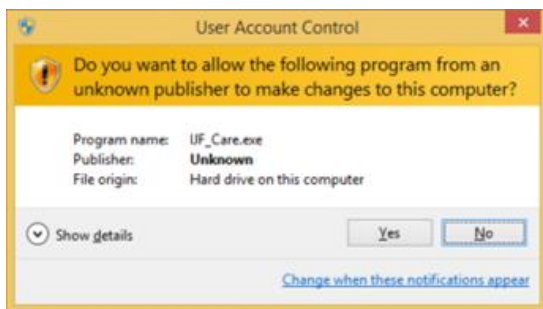
SOFTWARE SETUP USE

Once all hardware has been connected, start the laptop, and:

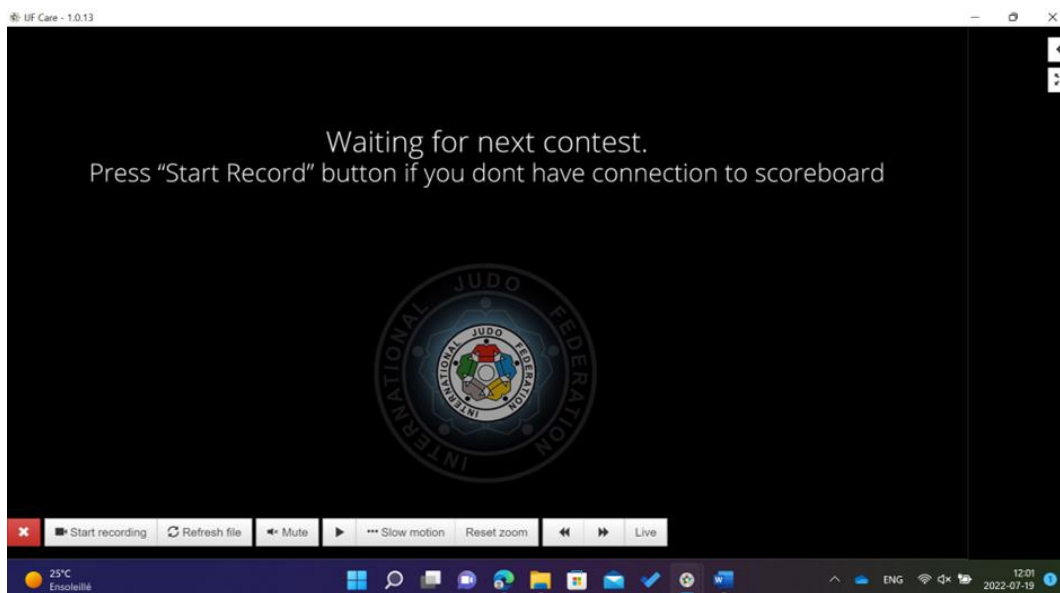
- 1) Download and install the IJF_Care_1_0_13
- 2) Accept the license terms and click on Install



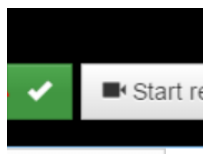
- 3) If you get this warning, click on yes and continue.



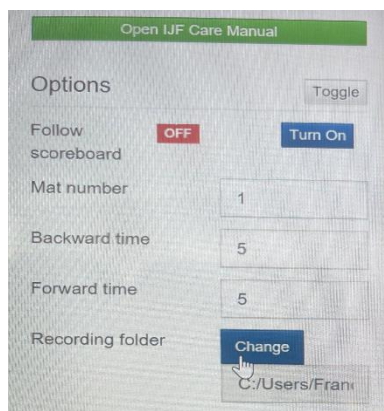
- 4) Once installation is successfully completed, restart your laptop before using the software. Double click on the desktop icon to open the software.
- 5) The interface will appear as follows:



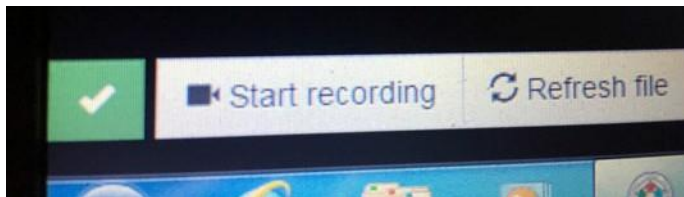
- 6) The software will display a green tick in the bottom left corner once it has acknowledged all hardware and available space on the computer hard drive.



- 7) To save videos:
 - a. Click on the "<" symbol at the top right of the software screen
 - b. Click "Toggle" next to "OPTIONS"
 - c. Go to "Recording folder" click "Change" and choose the folder where you want to save the videos.



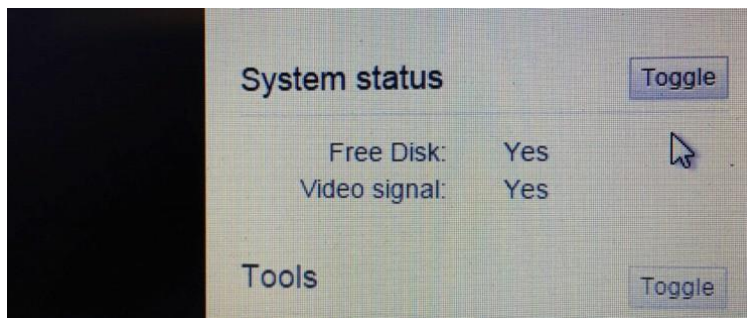
- 8) Click "Start Recording" to begin recording footage. A short delay will follow as the camera records the first few seconds and then will display a delayed view of the camera.



- 9) To review footage, use the mouse or trackpad on the laptop to rewind using the << button in the software. Pause, zoom and frame-by-frame viewing are also possible. It is recommended that judges take some time to familiarize themselves with the operation of the software prior to the first competition of the event.

TROUBLESHOOTING

- 1) In the event that a red cross appears in the bottom left box, follow the following troubleshooting instructions:
 - a. Click the "<" symbol at the top right of the software screen.
 - b. Click "Toggle" next to "System Status".
 - c. Both "Free Disk" and "Video Signal" should display "Yes" as pictured below for operation.



- 2) Free Disk = No

If free disk indicates "No", the software is telling us that there is no free space to record more footage. Check there is available disk space on your desired drive. This can be a USB pen drive, external hard drive if necessary or Dropbox. Refer to 7) in setup for help.

- 3) Video Signal = No

If the video signal indicates "No", the software is telling us that it cannot see the feed from the camera. Check all physical connections are plugged in correctly and securely, that the camera and the Blackmagic H.264 all have power supplied and that the camera is switched on. This may

require you to turn the laptop off and on again. If the problem persists, there may be a faulty cable in use.

TECHNICAL SUPPORT & TRAINING

It is strongly advised that someone is designated as technical support for any event using the CARE system to allow for assistance with the setup and any operational issues throughout your event. Support from Judo Canada for the setup of hardware and software is available.