

## Jesus College Kit: How to set up the Blackmagic Pocket Cinema 4K

This short guide is for anyone who is unfamiliar with cameras and camera kit. If you'd like to learn anything more advanced, there are many great tutorials and information that you can find online!

### 1. Put the battery (after charging them) and C-Fast card / SD card into the camera

The battery slides into the battery slot at the bottom right of the camera (see images below), and the C-Fast card and/or SD card fit into the Larger / Smaller card slots respectively, which can be found on the right side of the camera.



To open the C-Fast / SD compartment, simply slide the panel towards you (with the camera facing forwards)

### 2. Attach a lens to the camera body / Changing lenses (If a lens is already attached and you would not like to change the lens, please go to step 3)

Note: If you are not confident doing this yourself, please ask someone who is familiar with cameras to show you how to do it.

(The following steps can also be used to change the lens, but instead of removing the camera lens cap, you would remove the attached lens instead)



- If there is no lens on the camera already, the camera should have a cover in place of the lens.
- To remove this cover, hold down the button to the right of the camera lens cap, and simultaneously twist the cap counterclockwise, and it should come off to reveal the mechanisms of the camera
  - **IMPORTANT: DO NOT TOUCH THE EXPOSED MECHANISMS OF THE CAMERA AND BE CAREFUL NOT TO LET DUST/ANYTHING GET INSIDE. THIS CAN CAUSE SERIOUS DAMAGE TO THE CAMERA.**



- The lens will have 2 caps on it – one that twists off and one that ‘clips’ off easily
- Keep the smaller lens cap on, and twist off the lens cap on the opposite side (counterclockwise). This should also come off.
  - **IMPORTANT: DO NOT TOUCH THE EXPOSED LENS DIRECTLY.**
  - However, if you do, the lens can be cleaned with a microfibre cloth.
- Next, line up the red dot (or other coloured dot) that you can find on the side of the exposed lens with the red dot that you can see at the front of the camera body (where the camera lens cap used to be)
- Then, gently push the lens into the camera – this should slide in easily.
- Finally, twist the lens clockwise, until you hear a click. Once it clicks, the lens is locked onto the camera body.

### 3. Turn the camera on

The switch is located at the top of the camera, circled in red below. If it's not turning on, make sure that the battery is fully charged / inserted properly into the camera.



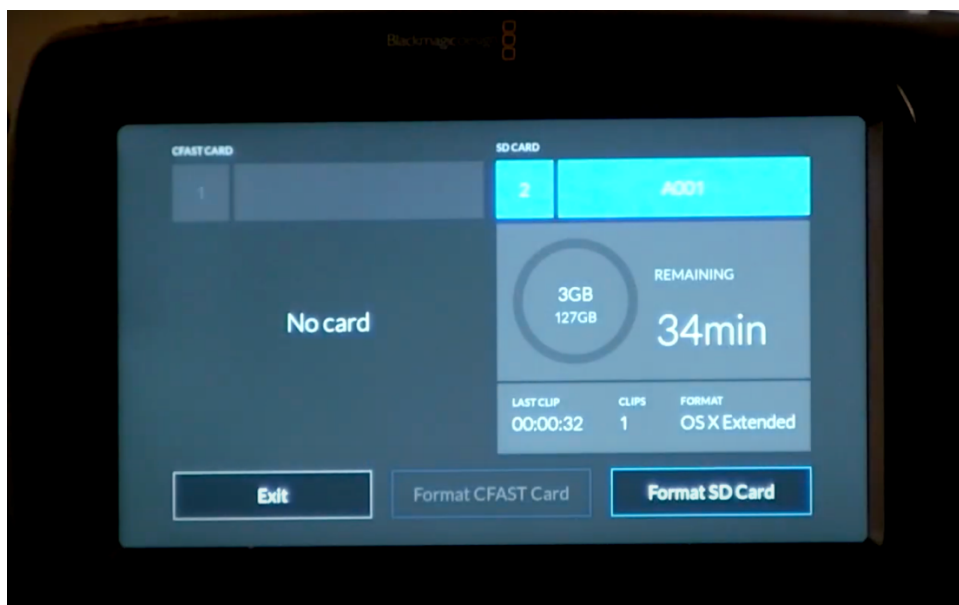
### 4. Format (clear) the C-Fast/SD card

The camera should turn on, with the display as shown below, or a similar display. I will refer to this display as the 'main screen'. If you can't see the settings on the top and bottom of the screen (as seen in the image below), just swipe down on the screen (you can use the screen as a touchscreen!). This should reveal the settings on the top and bottom of the display.

- Tap on the card that you would like to format (in this example, it is circled)



- Then you will be brought to a similar menu to the one below (see image). Tap on 'Format SD Card'
  - Then, tap on 'exFat' (which is compatible with both mac and windows PCs)
  - Then, tap on 'Format SD Card' again.
  - A warning will appear, reminding you that all data will be deleted from the card if formatted. If you are comfortable with this (if someone else had used the camera previously, they should have backed up the footage), click 'Format SD Card' again.
  - Hold down the 'Format SD Card' button for 3 seconds, and it will format the selected card.



## 5. Adjust the menu settings (1920x1080, Pro Res)

For this example, I will be using the settings in the brackets above. If you would like to use different settings, change them as required.

Firstly, click the button with the 3 horizontal bars (circled below), and it will open the menu below.



- Then, on the screen, tap on 'ProRes', then tap on 'HQ', Then tap on 'HD 1920x1080'.
- This means that you will be recording at the resolution of 1920x1080 at a High Quality bitrate, on a ProRes colour space.
  - Please note that if you decide to use a Blackmagic RAW colour space, it will take up a lot of storage space, and the footage will look 'washed out' as it has to be colour graded when editing. Using the ProRes colour space means that the colours will already look natural, straight from the camera, without having to edit them.

**6. Adjust the basic camera settings (Frame rate, ISO, F-Stop, Shutter Speed, White Balance)**

Firstly, to return to the main camera screen, click the button with the 3 horizontal lines again (as in step 5).



In the image above, I have circled the following settings on the main camera screen:

- FPS (red), Shutter speed (orange), Iris/F-stop (Purple), ISO (blue), White balance and Tint (Green)

If you can't see these settings on the main screen, simply swipe down on the screen.

To change each individual setting, just tap on the location of the setting on the main screen. After changing the settings, you can return to the main screen by tapping the exit button (on the screen), or by clicking the button with the 3 horizontal lines (as in step 5) until you return to the main screen.

- Change the fps to 25fps
- Change the shutter speed to 1/50 (note: if the shutter speed/angle is in 'degrees', change it to 180 degrees instead)
- Change the White Balance to 5600K, and the Tint to 10 (these are the default camera settings)
- Change the Iris (F-stop) and ISO as needed to correctly expose the image.
  - A higher ISO will make the image brighter (and vice versa). Try not to make the ISO too high (eg. 4800+), or the footage will become 'grainy' and look slightly pixelated.
  - A lower Iris (F-stop) number will make the image brighter (and vice versa). A lower Iris will also increase the depth of field in an image, while a higher iris will reduce the depth of field, making the image more 'flat'.
- Once the image is looking good in the main display, you are ready to record!

## 7. Record your footage!

Now that everything is set up, just click the Red Circle button (located at the top of the camera) to start recording! Click it again to stop recording.



## 8. IMPORTANT: Back up your footage. (Unless you are okay with losing it)

Finally, once you have finished using the camera, it is important to back up / store your footage into your own computer or hard drive.

- To do this, firstly turn off the camera.
- Then take the C-Fast or SD card out of the camera.
- Using the C-Fast card adapter in the kit (you should be able to put the C-Fast card into the designated slot, and it should plug into your computing device via the provided cable), transfer all of the files on the card to your own personal computing device / hard drive.
- If you used an SD card, do this with an SD card reader (not provided in the kit, but you may have one on your laptop already).
  - **IMPORTANT: BEFORE FILMING ANY FOOTAGE THAT YOU'D LIKE TO USE, PLEASE ENSURE THAT YOU ARE ABLE TO BACK UP THE FOOTAGE VIA THE C-FAST OR SD CARD.**
    - **You may need to buy your own SD card adapter, or an adapter for the cable of the C-Fast card reader if your laptop/computer doesn't already have the necessary ports.**

Once everything has been transferred, you can now use your footage in the edit! It is necessary to back up your footage as the next person who uses the camera may have to format the card (if you used the one provided by Jesus College) to free up space for their footage. If you want your footage to remain confidential, I would also recommend formatting the card again after you have backed up the footage, so that the next camera user won't have access to what you have just recorded.

If you would like to use the tripod/rode microphone with the camera, please refer to the other guides.