

0. Prerequisites

The Matrox MXO2 comes with various cables to connect to your computer. Please



follow these steps to generate a SDI signal out of BoinxTV.

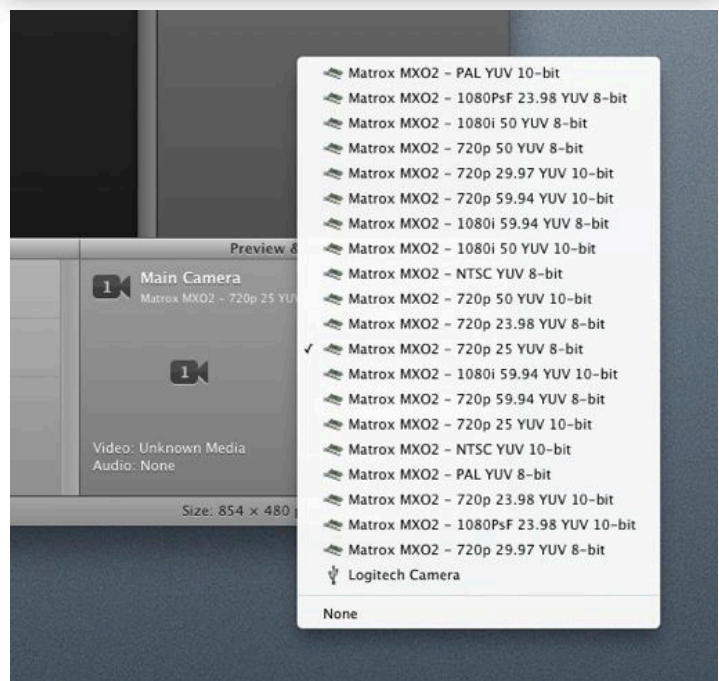
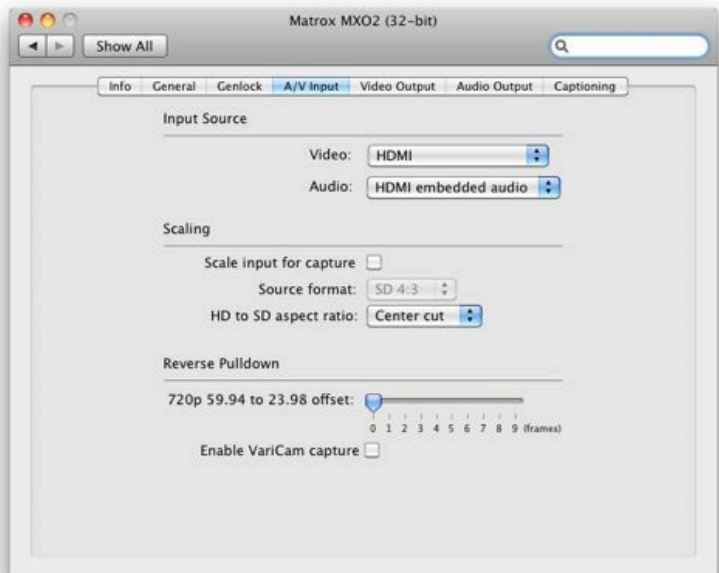
- Shut down your computer and install the PCI-Express Card to your MacPro or insert the ExpressCard 34 to you MacBookPro according to the MXO2 manual
- Now plug the connection cable into the card just installed and to the appropriate port on the MXO2
- Finally connect your video source (camera, computer, etc) to the appropriate input (HDMI, SDI, Composite, Y/C or S-Video) and connect your audio cable if necessary.
- Now install the Matrox MXO2 software (this document describes version 1.5.1).



After installing the drivers the MXO2 needs to be set up according to your needs.

1. Standard definition input (Y/C, S-Video, SDI, Component)

- In the Matrox MXO2 System Preference pane, select the A/V input and select the appropriate video input. Do the same with audio if necessary.
- In BoinxTV select one of the “Matrox MXO2 – PAL” or “Matrox MXO2 – NTSC” devices. Depending on your input signal it is either 8-bit or 10-bit. In most cases 8-bit is the correct setting.
- To capture MXO2 audio too, also assign the “Matrox MXO2 Audio” device.



2. High definition (HDMI, SDI, Component)

- In the Matrox MXO2 System Preference pane, select the A/V input and select the appropriate video input. Do the same with audio if necessary.
- If you want to use the video unprocessed in the same resolution as the input video, there is no need to set up anything further.
- In BoinxTV select one of the 720/1080 devices, depending on your input video.
- To capture MXO2 audio too, also assign the “Matrox MXO2 Audio” device.
- If the project doesn't require the full video resolution, it is possible to let the Matrox MXO2 scale down the video.
- Open up the MXO2 preference pane and go to the “A/V Input” section and check the “Scale input for capture” box.
- Select the appropriate INPUT resolution in the “Source format” dropdown. Please note: This is not the target resolution!
- Select the desired cropping method in the “HD to SD aspect ratio” dropdown.
- It is now possible to select any device in BoinxTV as the input video will be scaled to the requested video format. We recommend devices with 25fps as they require rather little processing power from the system.

