

MAKERSPACE

VIDEO & PODCAST
USER GUIDE

Podcasting Overview:

Here is a basic guide to creating a new audio podcast, using the RodeCaster Pro system.



Rodecaster Pro Overview:

The RodeCaster Pro system is a “Standalone (no computer required)” podcasting system. It can record and play recordings as well as be used to trigger sounds and music during such a recording. For convenience it will be used alongside the computer in the MakerSpace to record and transfer these recordings directly to storage on the Apple M1 computer.

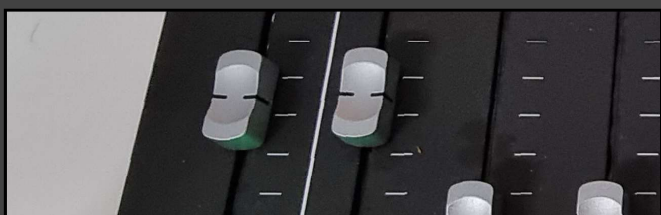


- **Listen Button (Green).**

The two channels “Podmic1” and “Podmic2” represent the two microphones located in the video space. To prepare for recording, press the green “Listen” button on each channel. (if both microphones are being used, then ensure you press both green buttons, one on each channel).

- **Mute Button (Red)**

If you want to keep the microphone active, but temporarily mute it, then press the red mute button on the desired channel. This will ensure that the channel is not recording armed and will be bypassed during recording.



- **Microphone Volume**

The two channels “Podmic1” and “Podmic2” represent the two microphones located in the video space. To adjust their input volume (the volume to be recorded), simply move the

Makerspace | Video Podcasting Guide



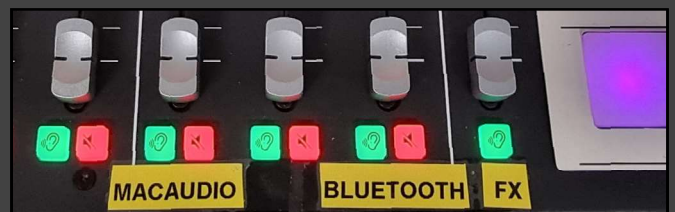
- **Microphone Input Level Metering**

Speak into the microphone until you see the levels of channel #1 show activity on the output meter. Note: you will also see L&R channels show activity (as this is the main output bus that is going to the speakers and headphones).



- **Adjust Headphone Levels**

Adjust headphone volume levels for both pairs of headphones by turning the volume encoder dials labelled “HP1” and “HP2” clockwise to increase the volume and anti-clockwise to decrease the volume.



- **Adjust Other Output Levels**

Note: Ensure that you press the “Green” listen button before adjusting any of these levels in order for them to become active.

- Macaudio Channel: Adjusts the volume of the Yamaha speakers.
- Bluetooth Channel: Adjusts the volume for any paired bluetooth device (e.g mobile phone).
- FX Channel: Adjusts the volume for the multi-coloured pad buttons. You can press these buttons to play FX during a podcast.

Open Broadcaster (OBS):

This guide will assist you in understanding the basic use of the “Open Broadcaster (OBS)” Software.

Open Broadcaster (OBS) Overview:

Open Broadcaster (OBS) is an easy to use video platform that allows you to take multiple sources (e.g a PC monitor, a video file, an image, a website etc) and bring them together simultaneously as different layers. (Think laying pieces of paper on top of each other). OBS also has the ability to “Stream” or go live, so you can also link it together with Youtube and other popular streaming platforms.



What Are “Scenes” and “Sources”:

Scenes are a collection of sources that can be laid out in different ways.

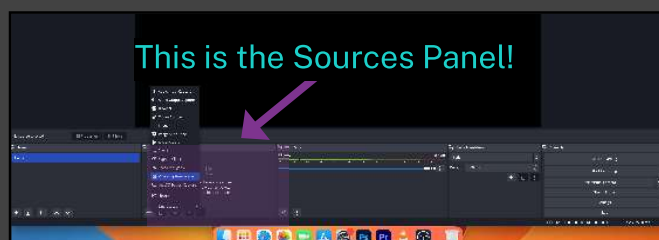
Sources are locations that contain some form of content. Examples of sources include:

- Web Browser
- Image
- Media Source (Video File)
- Text
- Video Capture Device (A Camera)

One scene might have a simple webcam covering the entire screen, while another half the screen an image and the other half a video file playing.

The idea behind scenes is to layout all of your sources or layered objects however you like, then when you are live or recording, you can simply flick between scenes as if you are producing a movie live and as you go!

Once you understand the concept, you can quickly start to create professional content for your videos such as “Green Screen / Chroma Key captures” and professional looking “Youtuber” style vodcasts and podcasts.

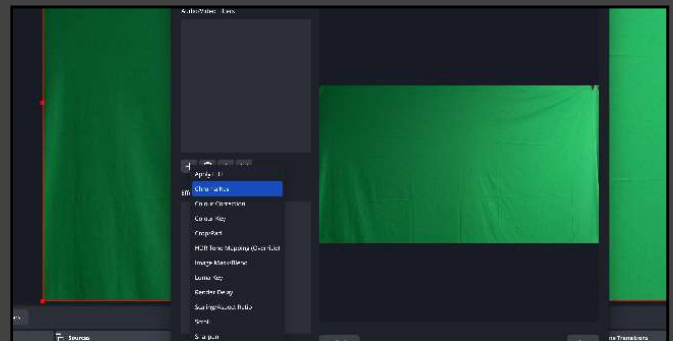


Makerspace | Video Video Space Guide



Understanding Green Screens (Chroma Key)

- A green screen is a very simple concept. The green colour is specifically chosen as it is not found commonly on clothing nor on the human body or many everyday objects. So it is an ideal colour to use.
- The algorithm or camera filter will look for this colour and know that it needs to eliminate it (key it out). Which gives you a believable effect and allows the actor to move around freely and still remain keyed out.



Above: OBS has a built in filter effect (“Chroma Key”) for the removal of any green screen or coloured backgrounds.



Example Above:

In the example above, we have created a filter to remove “Chroma green” (there are many colours that can be used such as blue, white, red etc).

We have then placed a video of a dinosaur creeping up on the actor. The actor can then act accordingly and OBS can then record this scene and it can be used in a movie or for a bit of fun to share amongst friends.

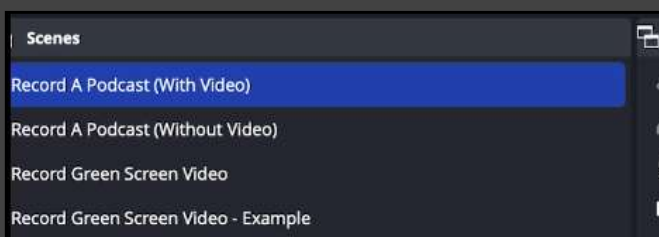
New Podcast Recording:

Here is a basic guide to creating a new audio podcast, using the RodeCaster Pro system.



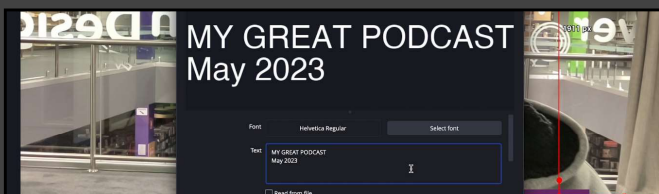
1. Locate and Launch Open Broadcaster (OBS)

- Locate and launch the Open Broadcaster (OBS) software on either the dock or the desktop.



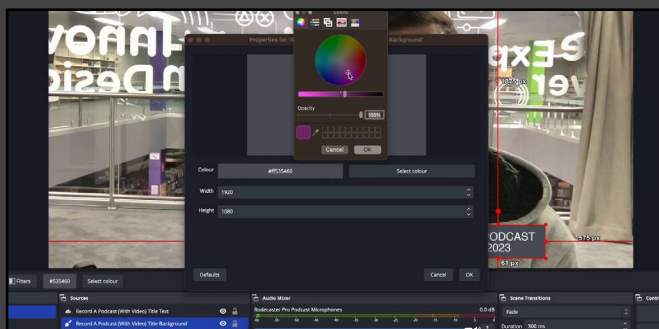
2. Choose A Scene Layout:

- There are four templates that have been setup as examples and to make it easier to record video content.
- Select "Record A Podcast (With Video)".



3. Adjust The Title Text (If You Require It)

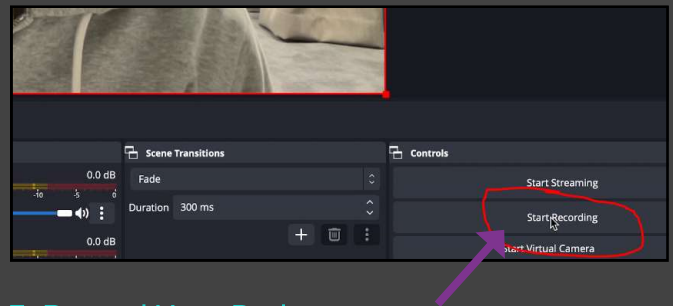
- In the "Sources" panel:
- Enable the "Title Text" source/layer (click the eye) and edit it accordingly.



4. Adjust The Text Background

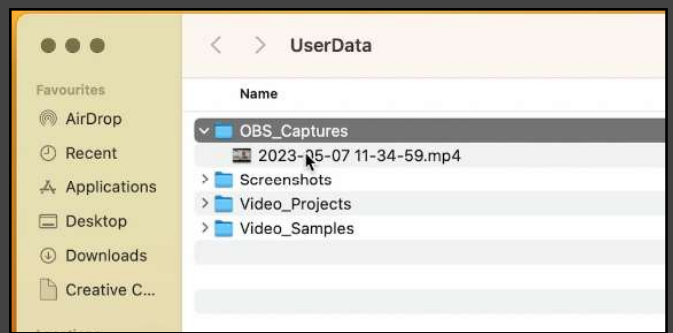
- Enable the "Background Text" source/layer.
- Double click on the text to edit the background colour

Makerspace | Video Podcasting Guide



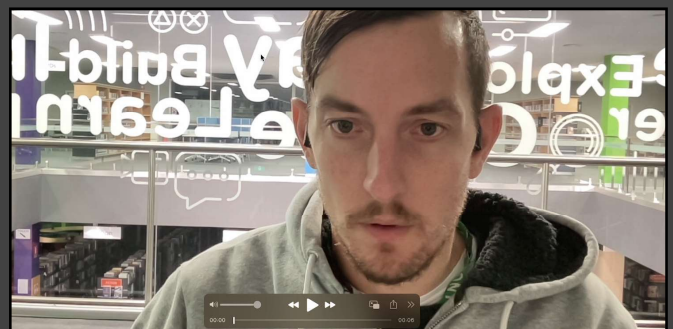
5. Record Your Podcast:

- Select the "Start Recording" button to begin recording your podcast.
- Select "Stop Recording" to complete the recording.



6. Locating Your Podcast Recordings:

- Locate the USERDATA drive on the Desktop and open it.
- Browse to the "OBS_Captures" folder and open it.
- You will see your latest recordings in .MP4 format.
- Double click on the video file and it will open in VLC media player.



- Note: This example above does not show the Podcast Title Text as it was not enabled. If it is enabled it will be rendered into the video file (.MP4).

Podcast Recording Tips:

- Keep the microphones away from speakers!
- Keep the microphones within an inch of your mouth for clear audio.
- Speak slowly and as clear as you can for best results.

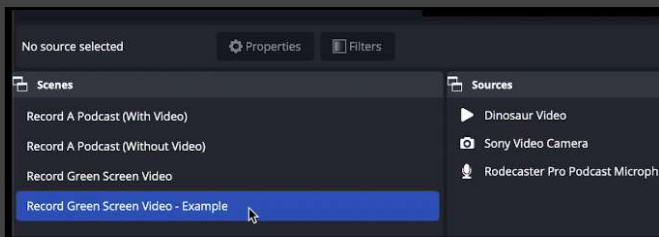
Green Screen Example:

Here is a basic guide to creating various recordings, using the Open Broadcaster (OBS) software.



1. Turn On Sony Video Camera

1. Ensure the power is switched on in the video space (the power-points behind the equipment).
2. Flip open the video camera's digital viewfinder screen which will turn on the camera.



1. Green Screen Video Example:

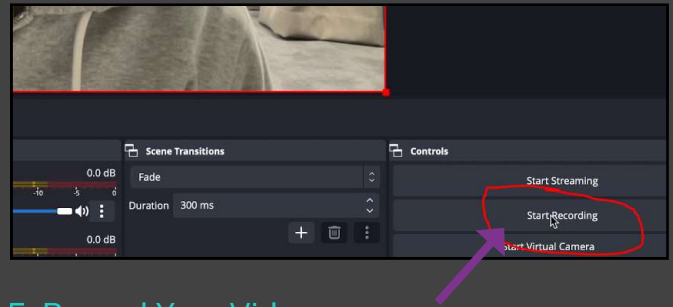
- The green screen video example includes a dinosaur loop sitting on top of a green screen layer.
- This is a very simple example of how you can use a variety of sources acting as layers to assemble a fun and inspiring video using minimal time and effort.
- Select "Record Green Screen Video - Example".
- Ensure ALL sources are enabled.



2. Rehearse The Shot!

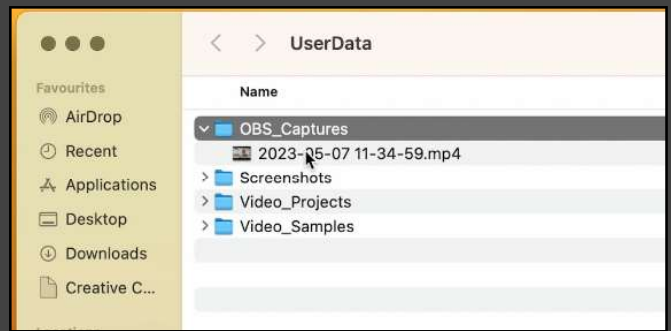
- Stand in front of the green screen and play with your position and where to stand.
- For the best effect, pretend the T-Rex is real!

Makerspace | Video Podcasting Guide



5. Record Your Video:

- Select the "Start Recording" button to begin recording your podcast.
- Select "Stop Recording" to complete the recording.



6. Locating Your Video Recordings:

- Locate the USERDATA drive on the Desktop and open it.
- Browse to the "OBS_Captures" folder and open it.
- You will see your latest recordings in .MP4 format.
- Double click on the video file and it will open in VLC media player.



Green Screen Recording Tips:

- Check the lighting, ensure the area is well lit, this will ensure there is no graininess and you get a nice clean looking chroma key.
- Experiment with different videos and search for green screen content (or make your own).
- Try to break up your movie into scenes, record different scenes/takes and edit it all together later, this ensures you are in creative mode and not in editing mode.

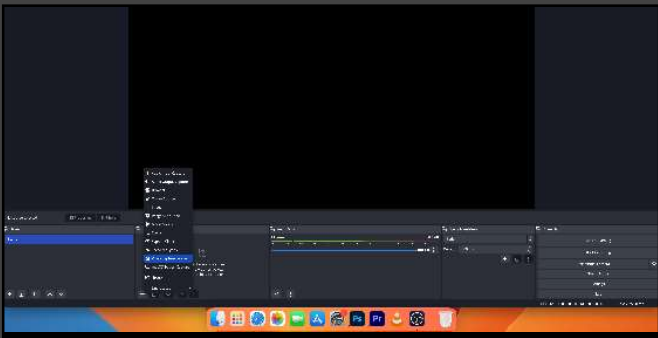
Chroma Key From Scratch:

This guide will assist you to understand the steps to building your own chroma key scene.



1. Turn On Sony Video Camera

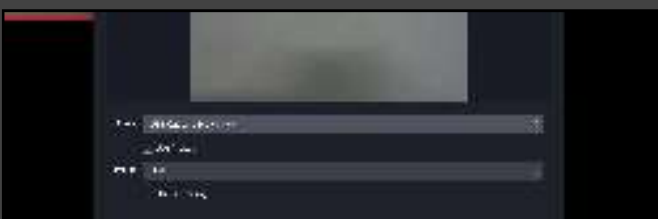
1. Ensure the power is switched on in the video space (the power-points behind the equipment).
2. Flip open the video camera's digital viewfinder screen which will turn on the camera.



2. Add A Video Camera To OBS

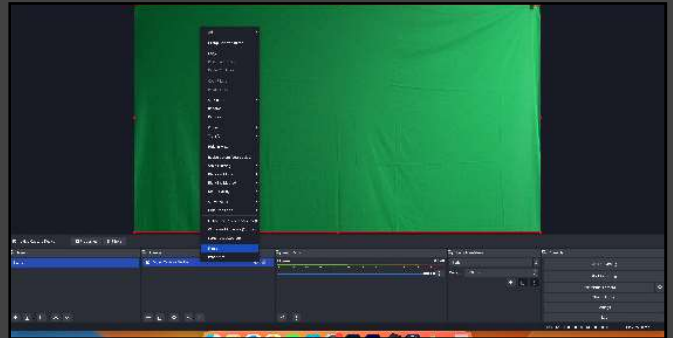
Note: If the Sony video camera has already been added to OBS and you can see a picture or chroma key is already setup then you can skip steps 2 to 4.

1. Press the + button in the sources section of OBS and choose "Video Capture Device"
2. Rename the device to "Sony Handicam" and press OK.



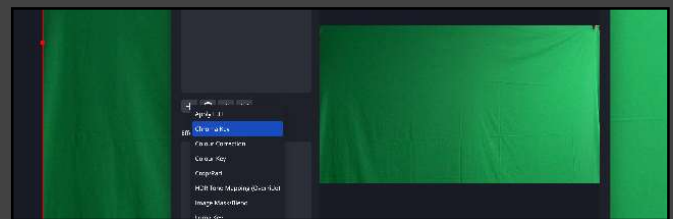
3. Select the "USB Capture HDMI 4K device" (The Magewell Capture Card) and press "OK" to continue.

Makerspace | Video Video Space Guide

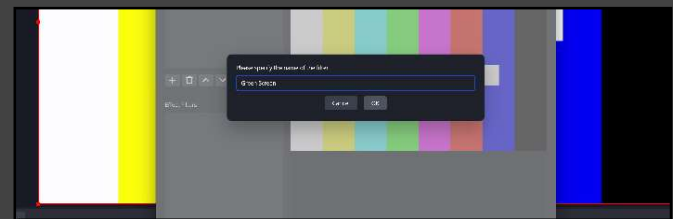


3. Create A Chroma Key Filter

1. Now that your Video Capture Device has been created, right click on it and choose "Filters" from the menu.



2. In the "Effects" menu in the bottom left of the pop up window choose "Chroma Key".



3. Rename the effect to "Green Screen" and press "OK".



4. Fix / Adjust Your Lighting

- Note: The image above shows some areas that are not completely black. This is a sign that the lighting is too dark within this area. Two ways to fix this are:
 1. In the daytime: Open the window near the green screen area and introduce more natural light to assist in brightening up the area.
 2. At night / Artificial Lighting: Use any provided artificial lighting and position it until all sections of the image appear nice and black. It helps to have a 2nd person to stand in front of the screen while you do this!

New Video Edit Project:

This guide will assist you in getting started in the Adobe Premiere video editing software:



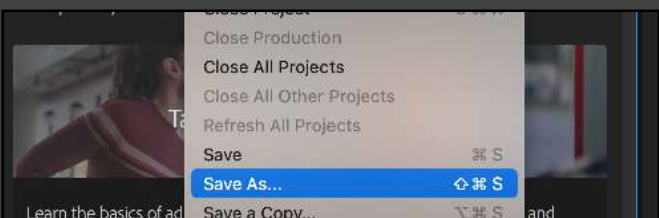
1. Launch Adobe Premiere Application

- On the dock or desktop, locate and double click on the Adobe Premiere “PR” icon.



2. Create A New Project

- Locate the “Create New Project” button and click on it to launch the new project window.
- Leave the project location as default (we will set this in the next steps) and click the “Create” button.

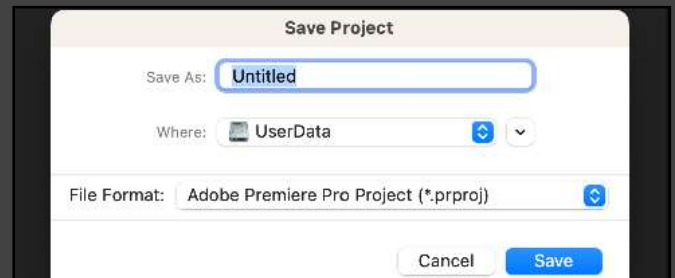


- In the Adobe Premiere “File” menu at the top of the screen, locate and click “Save As” to set your save location.

Makerspace | Video Video Space Guide

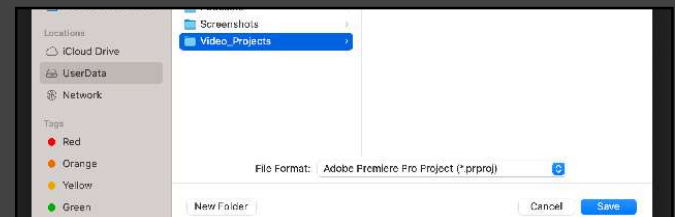
IMPORTANT! (RISK OF DATA LOSS!)

You MUST save your data in the “USERDATA” drive, or your data WILL disappear. Any data saved in any other location will not be kept during a computer restart. You are responsible for your own data (Please bring a USB drive).

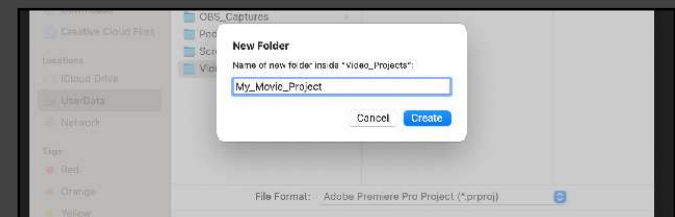


3. Save Your Project

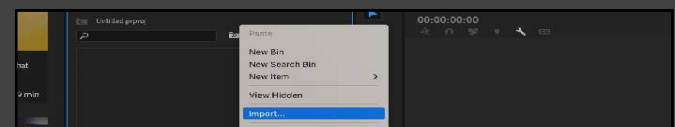
- In the “Save As” description, give your project a name.
- In the “Where” list, choose the “UserData” drive.
- Click save when ready to proceed.



- Locate and click the “New Folder” button.



- Enter a folder name for your project. Here we have used the example of: “My_Movie_Project”.
- When you are ready click “Save” to create the folder.



4. Import Media & Get Started

- You are now ready to start importing your media clips and creating a sequence.
- Please see the learning resources for beginner lessons in using Adobe Premiere and related video software.

Learning Resources

Here are some additional learning resources that will allow you to understand how to use the Adobe Premiere Software for video editing and production.



1. Premiere Pro 2023 For Beginners: Video Everything You Need To Know!

URL: <https://www.youtube.com/watch?v=keoszfh4DZ8>



2. Creating A Sequence

URL: <https://youtu.be/keoszfh4DZ8?t=167>



3. Workspaces In Adobe Premiere

URL: <https://youtu.be/keoszfh4DZ8?t=220>

Makerspace | Video Video Space Guide

Learning to create and edit videos may seem overwhelming when you first get started (like most technical things), yet within just a few sessions you can be making very high quality content.

The best way to learn is to watch the videos at each step along the way then practice!



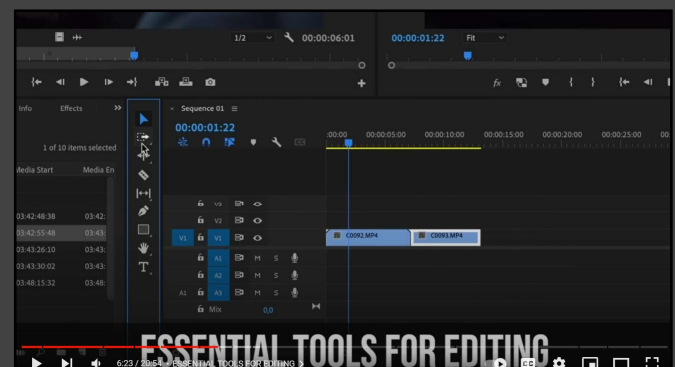
4. Importing Media (Photos / Videos)

URL: <https://youtu.be/keoszfh4DZ8?t=270>



5. Main Parts & Sections

URL: <https://youtu.be/keoszfh4DZ8?t=352>



3. Essential Tools For Editing

URL: <https://youtu.be/keoszfh4DZ8?t=383>