SPACE SCANNER GUIDE

The space scanner turns your camera and your projector into a 2D spacial scanner making your mapping easier!

Learn through this guide how to setup both your camera and MadMapper

The **Space Scanner** allows you to use your video-projector as a scanner in order to capture pixel by pixel what your projector “sees”.

To produce a spatial scan, you will need a video-projector, a compatible Sony or Canon DLSR camera or any MadMapper-compatible video-input source (being a webcam, a video-capture device or a NDI video-input).

1. Live Input

1.1 Sony

Sony tips

Make sure your camera is compatible with the Sony API.
Those are listed here: https://developer.sony.com/develop/cameras/api-information/supported-features-and-compatible-cameras

1.1.1 On the camera side

- Make sure the «Remote Control» setting is set on **ON**.

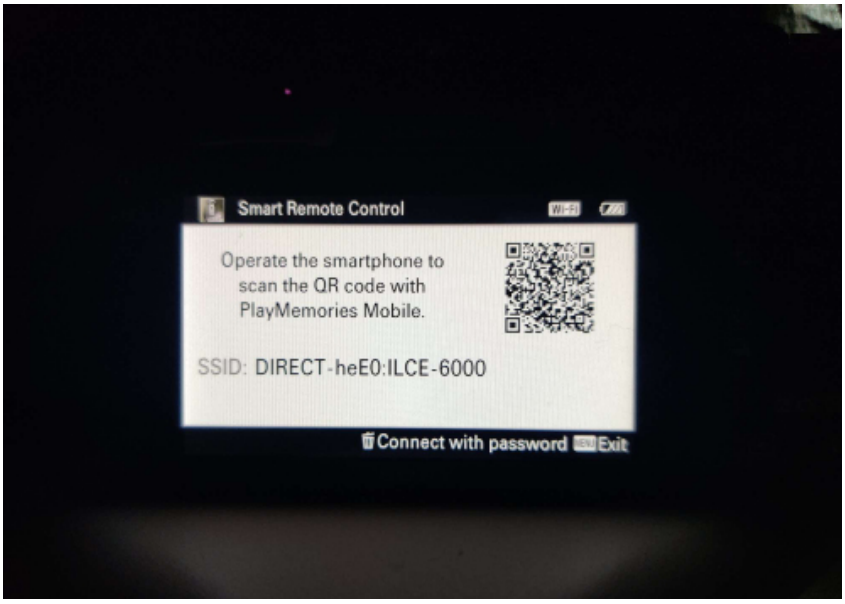
- Go to the «**Application list**» setting.

- Launch the «**Smart Remote Control**» app in order to allow your Sony camera to communication with your computer.

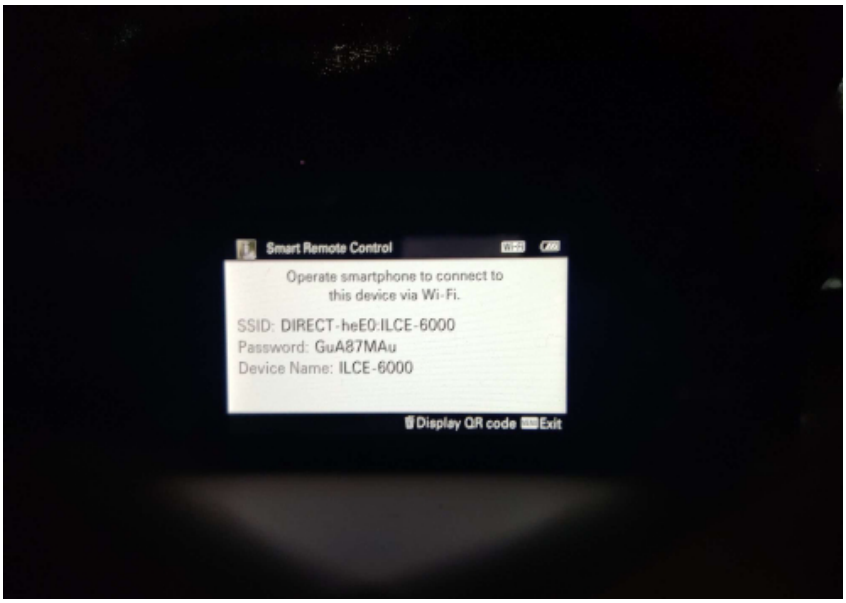
Sony tips

We made this guide using a **Sony Alpha 600**. Sony's full-frame cameras, crop sensor ones or recent v-log focused models will certainly be mentioned in the list of the previous tip.

1.1.2 On the computer side



- Your Sony camera being ready to connect with your computer over wi-fi, the name of the network will appear on the **Smart Remote Control** screen.

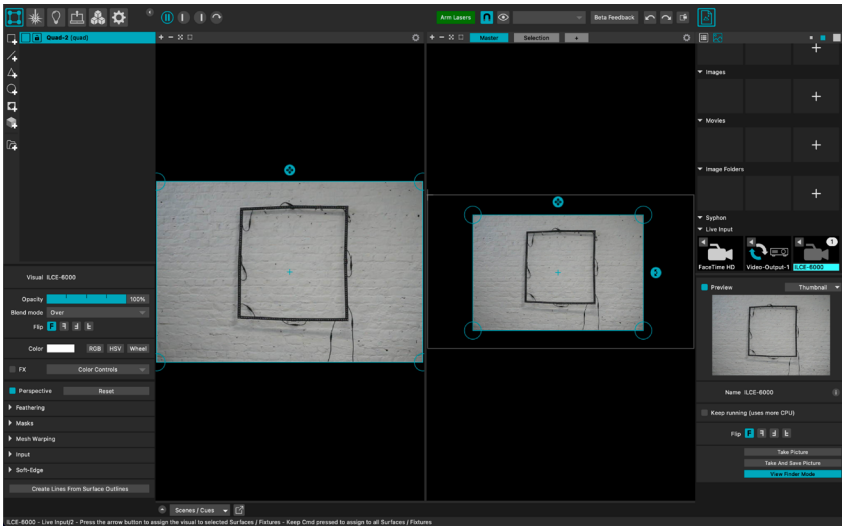


- By clicking on «**Connect with password**» (previous screen), the corresponding password will be displayed as well.

Sony tips

If everything goes as expected your camera screen should indicate « **Connecting...** » !

1.1.3 On the MadMapper side



► Success! You can now find your Sony camera in the **Live Input list** from the Media pool.

Mapp' tips

Make sure you're using at least **MadMapper 5.3** to access such features. You can download the software, manage your account and license(s) directly from the MadMapper website.

1.2 Canon

1.2.1 On the camera side

► Turn your Canon camera on and select Manual shutter mode (M) and connect it to your computer using a compatible USB data cable.

1.2.2 On the computer side

► Your Canon camera should automatically appear in the Live Input list from the Media pool!

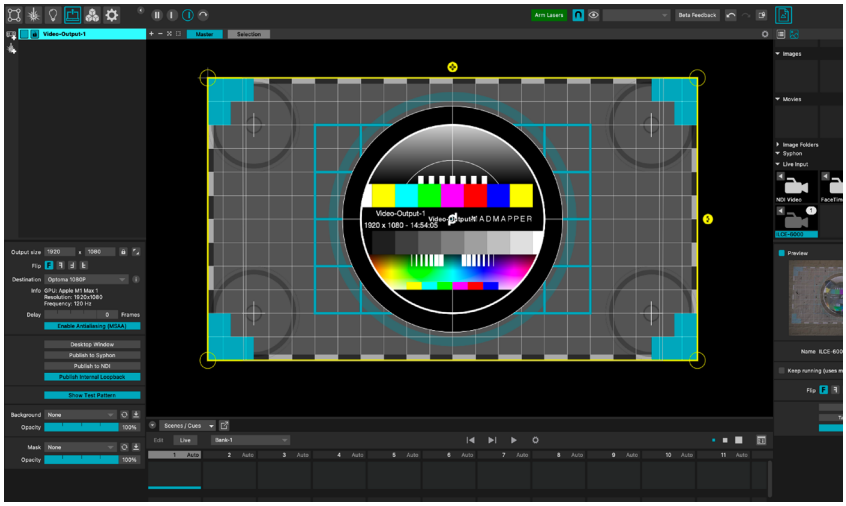
Canon tips

If you encounter issues with Space Scanner and your Canon camera on Windows, try uninstalling Canon Utility.

1.3 Other Live-Inputs

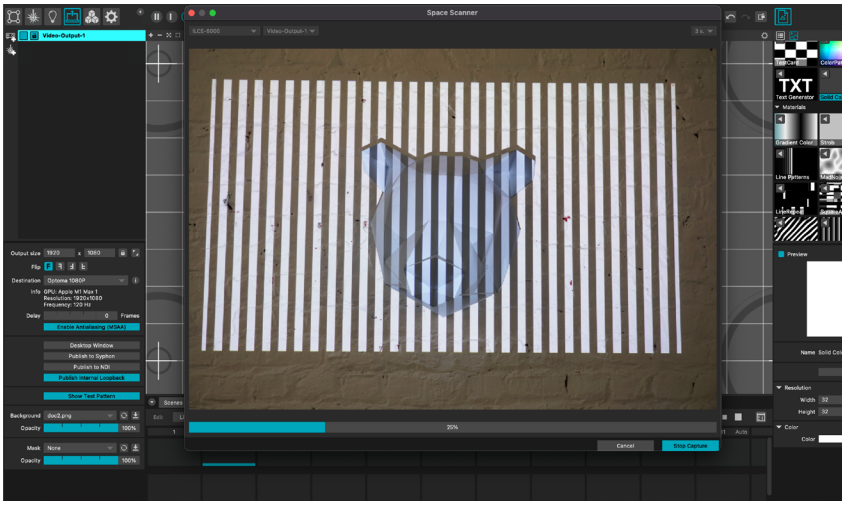
- Standard video-input devices like webcams and video-capture devices can also be used, as well as NDI video-inputs.

2. Space Scanner



- First, you must add a **Video Output** in the Output tab.

  Then select your video projector (plugged to your computer) in the **Destination** list.



- From the **Tools** menu, you can now launch a **Space scan**.

  Then, make sure to select the right video-input and video-output.

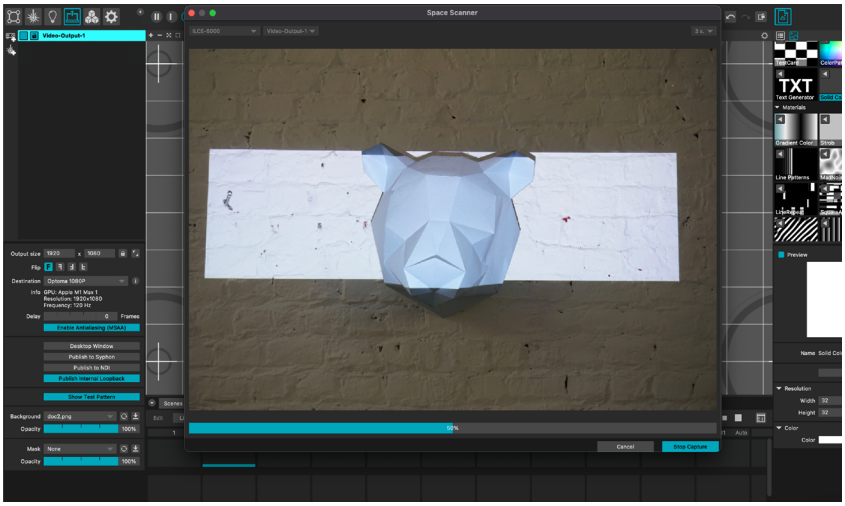
  You should now see your projected image appearing in the video-input preview.

Map' Tip!

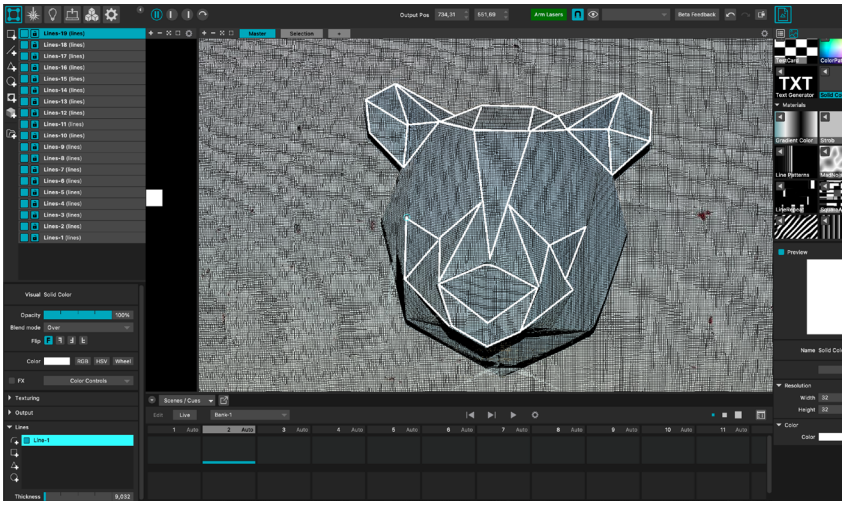
It is better for the quality of your scan to have a camera that has a bigger resolution than the video projector paired with it.
Zoom the maximum while keeping the complete projected image in the camera view!

Scan!

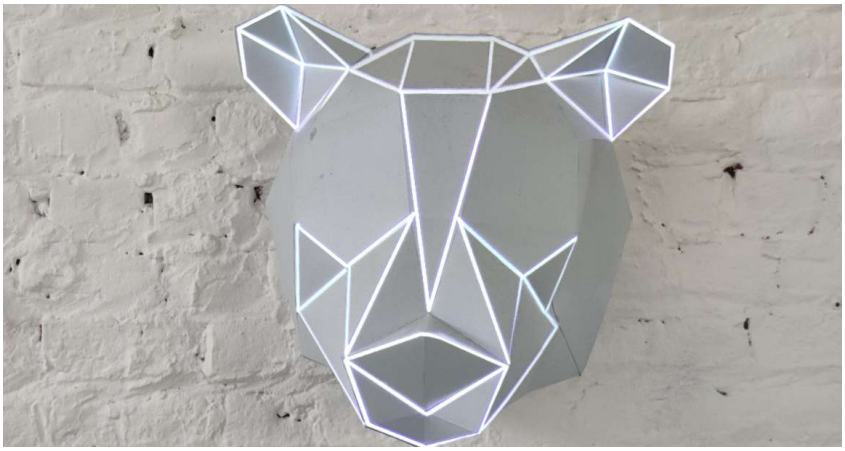
- Once everything's setup, simply click "Capture" to start the process.



- Wait a bit!
  Once your space scan will be completed, **MadMapper** will ask you where to save the scan image and set this image as "**Background Image**" of the "**Video Output**" you used for scanning.



- You can now start creating surfaces on your background.



- As long as your projector is not moving, it will perfectly fit your target!

Last Tips!

Make sure that there is enough space on your SD card.
Set both the exposure and autofocus mode to **Manual**.
Plus, your scans will be of better quality by using a camera with a **higher** resolution than its paired video projector!