



USB CAMERA VIEWER

SOFTWARE MANUAL

Manual version: 1.0.0
Software version: 1.0

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1. Requirements

Table 1.1 details the minimum requirements for the Ossila USB Camera Viewer.

Table 1.1. Ossila USB Camera Viewer requirements.

	Minimum	Recommended
Operating System	Windows 11 (64-bit)	Windows 11 (64-bit)
CPU	Quad Core 2 GHz	13 th gen Intel i7 or equivalent
RAM	8 GB	16 GB
Available Hard Drive Space	260 MB	260 MB
Monitor Resolution	1280 x 720	1920 x 1080
Connectivity	USB 2.0 or 3.0	USB 3.0

2. Installation

To install the software simply run the installer and follow the on-screen instructions.

Note: The Ossila USB Camera Viewer software can also be downloaded from
<https://www.ossila.com/pages/software-drivers>

3. Operation











Figure 3.1. Ossila USB Camera Viewer.

3.1 Main Tool Bar

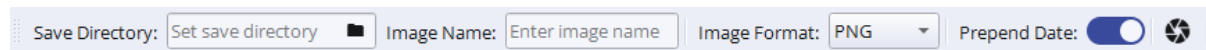



Figure 3.2. USB Camera Viewer main tool bar.

	Search for connected cameras. Discovered cameras will be displayed in the drop-down box.
Camera Selection Box	This drop-down box lists the name of any detected cameras connected to the PC. Note: Ossila cameras will have different names when viewed in Windows Device Manager.
	Connect to the camera currently selected in the drop-down list.
	Open the stream format settings window to change the video resolution and compression. See Section 3.3 for more details.
	Open the image properties window to adjust the brightness, contrast, etc. See Section 3.4 for more details.
	Open the capture options tool bar to save images. See Section 3.2 for more details.

	Open a file dialog to select an image to load into and view in the software.
	Show or hide a grid overlay on the video stream or loaded image. The grid unit is in pixels.
	Pause or resume the video stream of the connected camera.

3.2 Image Capture



Save Directory	The file directory in which to save images. Clicking the file icon will open a dialog to browse to a directory.
File Name	The name to give a saved image.
File Type	The type of image file to save: PNG (.png), JPG (.jpg), or TIFF (.tiff).
Prepend Date	Whether to add the date and time to the beginning of the name of a saved image. Uses the format YYYY-MM-DD_HH-mm-ss.
	Save an image to file. If the save directory or file name fields are empty, a dialog will open to choose a directory, save name, and file format.

3.3 Stream Format

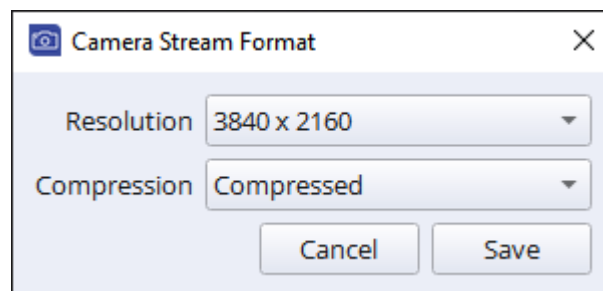


Figure 3.3. Camera Stream Format window.

The Camera Stream Format window allows you to change the resolution and compression of the video stream. Available resolutions and compression options will depend on the connected camera. The current FPS, resolution, and compression is displayed at the right side of the status bar.

When the window is opened the camera is disconnected, and reconnected when it is closed.

Resolution	The width and height of the video stream in pixels.
Compression	Whether the video stream is compressed or uncompressed. Compressed video gives a higher frame rate; uncompressed video gives better quality. Some cameras can only output compressed.
Cancel	Discard any changes and reconnect to the camera with the previous settings.
Save	Save the currently selected settings and reconnect to the camera.

3.4 Image Properties

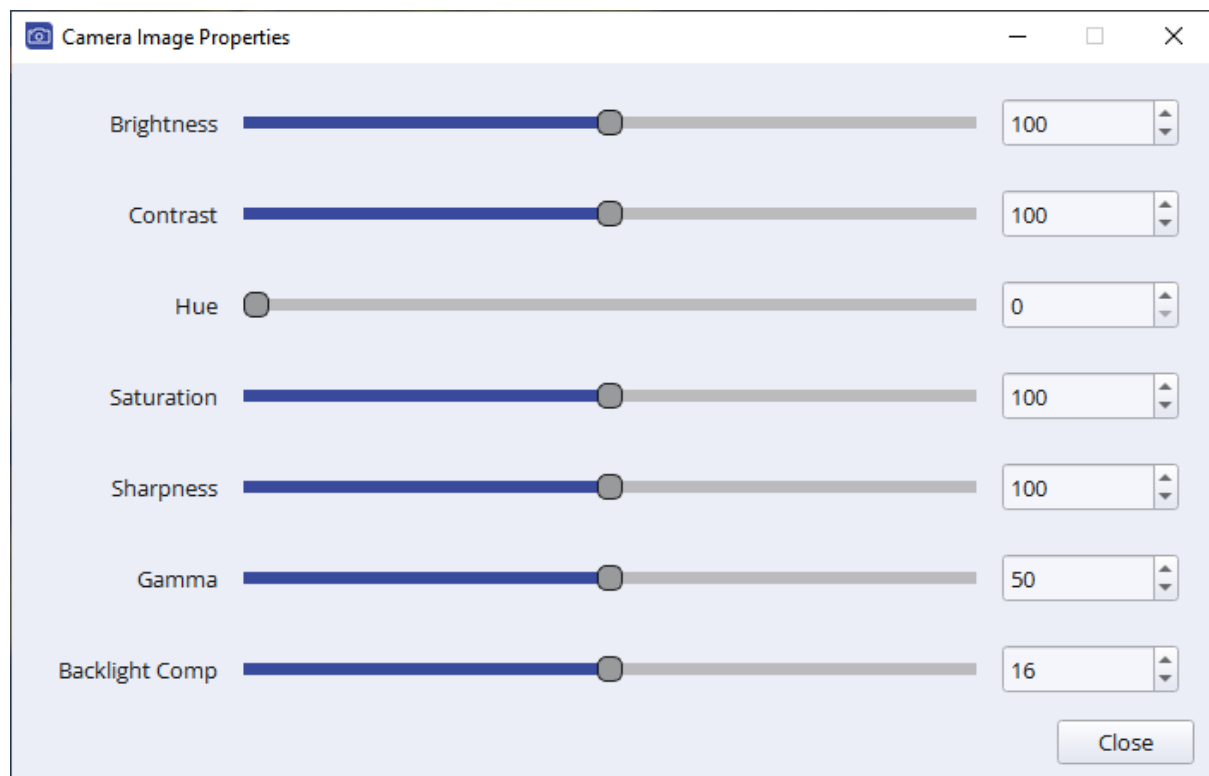


Figure 3.4. Camera Image Properties window.

The Camera Image Properties window allows you to adjust the images output by the camera. When the value of a property is changed, it is immediately updated in the video stream. The minimum and maximum values for each property are dependent on the connected camera.

3.5 Stream/Image Viewer

The video stream output or loaded image is displayed in the central area of the software. On camera connection (including after changing stream format) and loading an image, the display will automatically show the whole video/image.

The view can be controlled manually using the following mouse controls:

- Left or middle click and drag – pan the image.
- Right click and drag vertically – zoom in or out centred on the mouse cursor location when the button was clicked.
- Scroll wheel – zoom in or out centred on the mouse cursor location.

To reset the zoom level of the display, click the  button in the top-right corner.

3.6 Menu Bar

3.6.1 File

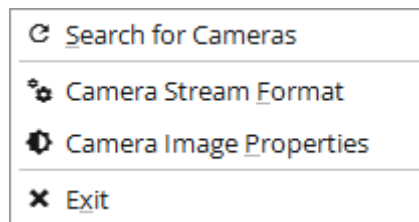


Figure 3.5. File menu options.

Search for Cameras	Search for connected cameras. Discovered cameras will be displayed in the drop-down box in the tool bar.
Camera Stream Format	Open the stream format settings window to change the video resolution and compression. See Section 3.3 for more details.
Camera Image Properties	Open the image properties window to adjust the brightness, contrast, etc. See Section 3.4 for more details.
Exit	Close the software.

3.6.2 View

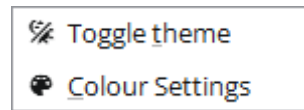


Figure 3.6. View menu options.

Toggle theme	Switch the software between dark and light themes.
Colour Settings	Open the colour settings window to change the colour of parts of the software.

(I) Colour Settings Dialog

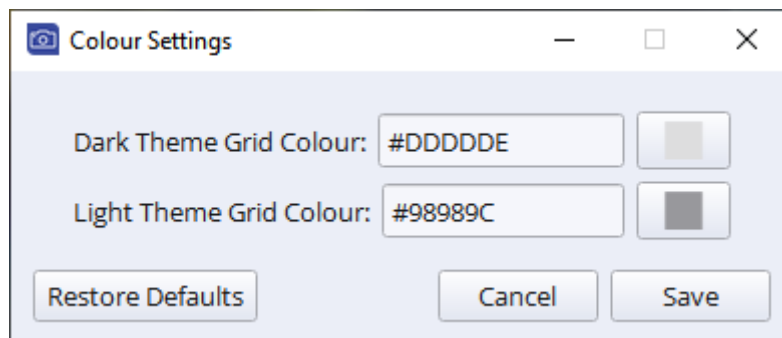


Figure 3.7. Colour Settings window.

Dark Theme Grid Colour	The colour of the grid when the software is in dark theme.
Light Theme Grid Colour	The colour of the grid when the software is in light theme.

Clicking on the coloured buttons on the right opens a colour selection dialog.

3.6.3 Help

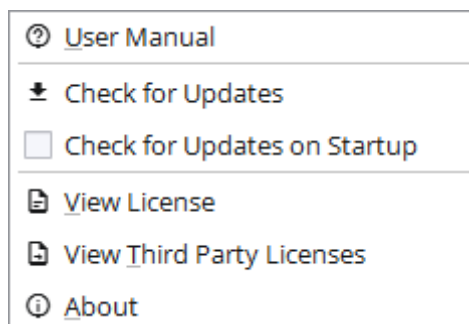


Figure 3.8. Help menu options.

User Manual	Open the user manual in your default web browser.
Check for Updates	Check whether a newer version of the software is available to download and install. If an update is available a message will be displayed in the status bar with the latest version number. Clicking the message will take you to Ossila's website where you can download the new version.
Check for Updates on Startup	When checked the software will automatically check for software updates each time it starts.
View License	Display software license information.
View Third Party License	Display license information of third-party software used by the software.
About	Display information about the software.

4. Troubleshooting

Most of the issues that may arise will be detailed here. However, if you encounter any issues that are not detailed here, then contact us by email at info@ossila.com. We will respond as soon as possible.

Problem	Possible Cause	Action
Software does not start	The wrong version of Windows is installed on the computer.	Install the software on a computer with Windows 11.
	The software has not installed properly.	Try reinstalling the software.
Cannot detect camera	The USB cable may not be connected properly.	Ensure the USB cable is firmly plugged in at both ends.
	The USB cable may not be connected to a working USB port.	Try connecting the unit to a different USB port on the computer.
	The USB cable is defective.	Try using a different USB-C cable and contact Ossila if necessary.