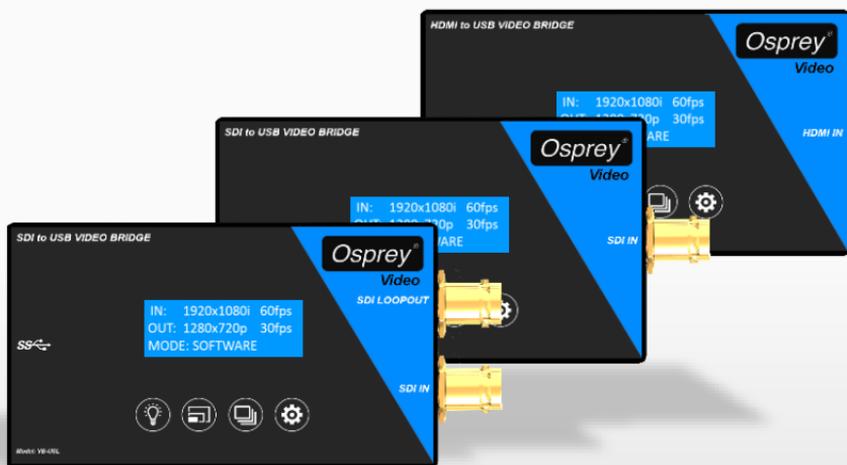# USB VIDEO BRIDGE

Quick Start Guide

USB3.0 Powered 3G-SDI and HDMI 1080P60 Video Capture

SCALING

FRAME RATE CONVERSION

DE-INTERLACING
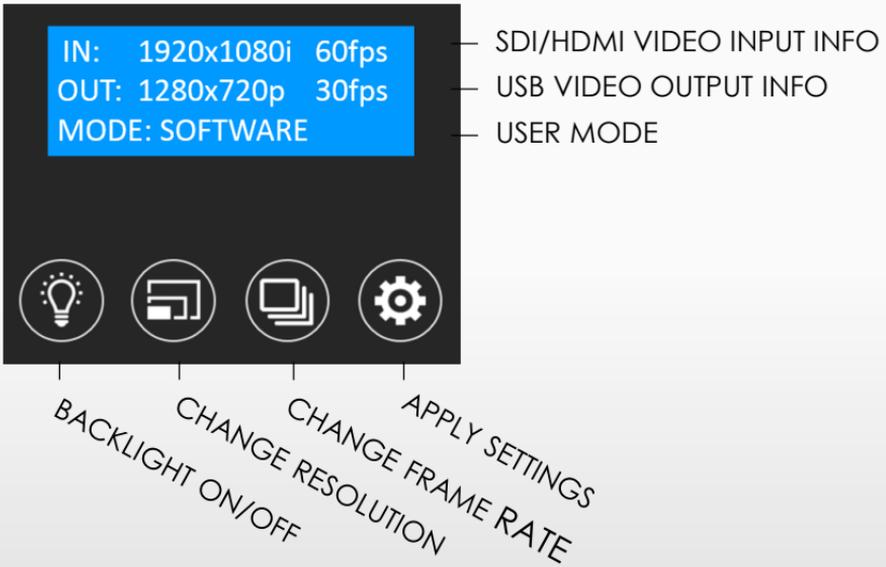
WINDOWS

OS X

LINUX

Osprey®
Video

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```
IN:   1920x1080i  60fps
OUT: 1280x720p   30fps
MODE: SOFTWARE
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— SDI/HDMI VIDEO INPUT INFO
— USB VIDEO OUTPUT INFO
— USER MODE

BACKLIGHT ON/OFF
CHANGE RESOLUTION
CHANGE FRAME RATE
APPLY SETTINGS

USER MODES

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The user mode can be changed by pressing the "APPLY SETTINGS" button for >3 seconds.

SOFTWARE: All supported resolutions and frame rates are available and selectable by the PC Video Capture Software. The "CHANGE RESOLUTION" and "CHANGE FRAME RATE" buttons on the device are inactive in software mode.

MANUAL: Only the manually selected Resolution and Frame Rate is passed on to the Host PC.
Settings changes need to be confirmed by pressing "APPLY SETTINGS" button.

In manual mode always close your software application before changing resolution or frame rate. Most applications crash when changing input settings mid stream.

CONNECTING DEVICE FOR THE FIRST TIME

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USB CONNECTION: This device is designed to work with USB3.0 and USB-C (adapter required) connections only. USB3.0 connectors are identified by blue color or with the SS (Super Speed) logo.

Follow below steps without video input source connected.

Connect device to a supported USB port and the driver will automatically install. The device will appear in Device Manager under Imaging Devices as "Osprey Video Bridge" and under Audio Devices as "Osprey Audio Bridge".

The default user mode is "SOFTWARE" and no Input Resolution is displayed. Output Resolution and Frame rate default to factory settings.

Open a Video Capture Software and select "Osprey Video Bridge" as your video capture device. Color bars should be displayed which indicate "No Video Input Connected" (Signal Loss).

You can now connect your video source and the color bars will be replaced showing the video input feed.
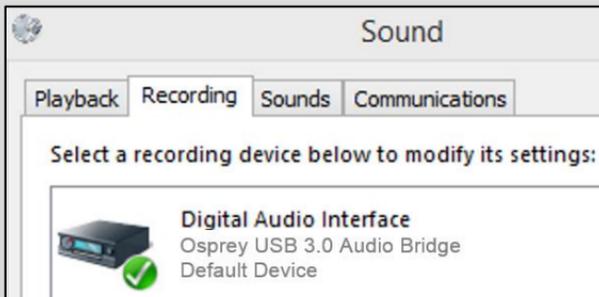
TIPS and TRICKS

VIDEO QUALITY: In order to achieve the best video quality try to match your video source to the same resolution and frame rate as the desired output video stream. In case this isn't possible downscaling always produces better video quality than upscaling. Therefore set your video source to a resolution and frame rate that is equal or higher than your desired video output stream. The Osprey Video Bridge can accept video up to 1920x1080p 60fps.

AUDIO QUALITY: The standard for motion picture is 48kHz Audio sample rate. The Audio sample rate of the source might affect your Video/Audio sync as the capture software has to resample to a supported format.

In case of scrambled Audio toggle USB Device between Manual Mode and Software mode to resolve USB sync issues.

In case of Video/Audio out of sync issues select the Audio Capture Device in your Software Application as "None" and instead set the "Osprey Audio Bridge" to "Listen to this Device" mode in Sound settings (In Windows right click on speaker symbol in task bar).

This verifies that your USB connection speed is sufficient and your Osprey Video Bridge is working correctly.

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The Osprey USB Video Bridge is compatible with most Direct Show, V4L2 and Quick Time based Video Applications. Below is a list of tested applications:

Adobe Connect	PC | Mac
AmCap	PC | Mac
Flash Media Live Encoder	PC | Mac
Google Hangouts	PC | Mac | Linux
GoTo Meeting	PC | Mac
Skype	PC | Mac | Linux
VLC	PC | Mac | Linux
Webex	PC | Mac
OBS	PC | Mac | Linux
Ustream	PC | Mac
vMix	PC | Mac
Team Viewer	PC | Mac
Win10 Camera App	PC
Wirecast	PC | Mac
Lync	PC
YouTube Live	PC | Mac
Facetime	Mac
Quick Time	Mac
Zoom	PC | Mac
Osprey Ceylon	PC

TROUBLESHOOTING for WINDOWS

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1. DEVICE NOT RECOGNIZED : Verify that the Osprey USB Device is shown in device manager under "Imaging Devices" and under "Audio Inputs and Outputs". Should it not be recognized there might be a conflict with previously connected imaging devices.
In Device Manager select "View – Show Hidden Devices" and uninstall all hidden devices under "Imaging Devices", "Audio Inputs and Outputs", "Sound, Video and Game Controllers" and "Universal Serial Bus Controllers". Thereafter shut down your PC and reboot.

2. DEVICE RECOGNIZED BUT NO VIDEO: Verify that the video Bridge is plugged into a USB 3.0 port. Check your USB cable making sure it is USB 3.0 rated at 5gbps. Only use the supplied USB cable. A lot of low cost USB 3.0 cables do not support full USB 3.0 speeds even though the pinout is correct and they are labeled as USB 3.0 or Super Speed.

3. GENERIC ERROR MESSAGES: Only one application can access the device at a time. Make sure there is no second video application already accessing the device. Some applications don't properly close when exiting. Check the task manager and end these tasks manually.

4. LAST RESORT … : Under "Universal Serial Bus Controller" uninstall the "USB Root Hub". This will disable all of your USB input devices and the PC needs to be hard rebooted using the power button.

Additional information can be found at:

www.ospreyvideo.com/index.php/products/usb-capture

3G-SDI Video Bridge

Video Formats SDI In:
1920x1080p, 1920x1080i, 1280x720p, 625i, 525i

Video Formats Out (24, 25, 30, 50, 60fps):
1920x1080, 1680x1050, 1440x900, 1360x768, 1280x1024, 1280x800
1280x768, 1280x720, 1024x768, 1024x576, 960x540, 856x480, 800x600
768x576, 720x576, 720x480, 640x480, 640x360

HDMI Video Bridge

Video Formats HDMI In:
1920x1080p, 1920x1080i, 1280x720p, 625i, 525i

Video Formats Out (24, 25, 30, 50, 60fps): :
1920x1080, 1680x1050, 440x900, 1360x768 1280x1024, 1280x800,
1280x768, 1280x720, 1024x768, 1024x576 960x540, 856x480, 800x600
768x576, 720x576, 720x480, 640x480 640x360

2- Channel Embedded SDI/HDMI Audio, 48kHz sampling Rate

Full size SDI/HDMI Connectors to Micro USB3.0

Size 4" x 2.4" x 0.65" (103 x 61 x 17mm)

Compliance: FCC, CE, RoHs

WHEN RELIABILITY MATTERS