

CaIMAN Setup Guide

AV Foundry VideoForge Classic

Digital Video Generator

Rev. 1.2

Introduction

The AV Foundry VideoForge Classic provides HDMI/DVI video signals for testing, calibrating and servicing video displays, including 3D stereoscopic displays. The VideoForge provides a full range of resolution formats, plus configurable internal test patterns and custom user patterns and images.

CalMAN Recommended Workflows

- All available measurement and calibration workflows

VideoForge Control Port

- USB mini (use USB mini to USB A cable)

VideoForge Device Driver

The SpectraCal Device Driver Pack needed to support the VideoForge is available from the SpectraCal Support page, or directly from this link: <http://www.spectracal.com/download.php?id=3>

Download and install the Device Driver Pack, which includes a driver for the VideoForge.

1. Power on the VideoForge.
2. Connect the VideoForge to a USB port on your computer with a USB mini to USB A cable.
3. When Windows prompts you to install a driver, choose "Install from Specific Location" and browse to the following folder:
"C:\Program Files (x86)\SpectraCal\Drivers\VideoForge"
4. If the driver is properly installed, the VideoForge will be listed in Windows Device Manager under *Network Adapters* as "RNDIS Gadget." If it is not listed that way, the driver is not yet properly installed.

VideoForge Computer Connection

To connect the VideoForge to a computer with a USB cable, for either manual or automated control:

1. Install the VideoForge device driver (above).
2. Connect the VideoForge to the CalMAN computer with a USB cable.

For a Windows 10 computer

1. Open *Settings > Network and Internet > Ethernet > Network and Sharing Center* and select *Change Adapter Settings*.
2. Identify the network connection that is labeled either *VideoForge* or *RNDIS Gadget*.
3. Right-click on the VideoForge connection and select *Properties*.
4. Uncheck the item named *Network Activity Hook Server Lightweight Filter Driver*.

For a Windows 7 64-bit computer

1. Open *Control Panel > Network and Internet > Network and Sharing Center* and select *Change Adapter Settings*.
2. Identify the network connection that is labeled either *VideoForge* or *RNDIS Gadget*.
3. Right-click on the VideoForge connection and select *Properties*.
4. Uncheck the item named *Network Activity Hook Server Lightweight Filter Driver*.

VideoForge Manual Control

To manually control the VideoForge, including its output signal resolution, and show test patterns on a video display using a browser-based user interface to manually control the VideoForge HDMI (without CalMAN):

1. Connect the HDMI port on the VideoForge to an HDMI input on the display.
2. Connect the VideoForge to a computer with a USB cable.
3. Open a web browser (e.g. Chrome, Internet Explorer, Firefox, etc.).
4. Enter "172.24.24.20" in the address bar and press *Enter* on the keyboard.
5. Make desired selections in the VideoForge control interface.

CalMAN Connection to VideoForge

To connect CalMAN to the VideoForge for automated CalMAN control:

1. In CalMAN, under *Find Source*, select “AVFoundry – VideoForge.”
2. Verify that the IP Address is set to 172.24.24.20.
3. Click *Connect* on the *Find Source* panel.

CalMAN Source Settings Options

Triplet Support

The VideoForge provides full RGB triplet support to provide test patterns that support 3D cube LUT calibration.

Window Size

On the *Source Settings* tab, under *Window Size*, select your desired window size.

- Window 2%
- Window 5%
- Window 10%
- Window 18% (default)
- Window 25%
- Window 50%
- Full 100%

Note: For OLED, Plasma, and CRT displays, use the smallest convenient window size.

VideoForge Custom Test Patterns

To display your own custom test patterns or images with the VideoForge:

1. Prepare custom test pattern or image files, in PNG or JPEG format, at the desired display resolution (e.g. 1920x1080).
2. Copy the custom test pattern and/or image files to an SD memory card formatted as FAT, FAT32, NTFS, or Apple HFS.
3. Insert the SD memory card into the front VideoForge SD card slot.
4. Access the VideoForge control interface, as outlined in the “VideoForge Manual Control” section, above.

5. On the control interface Patterns tab, open the Pattern drop down box and scroll down to the mmc/xxxx listings (mmc = multimedia card). Your custom files will be listed in the format mmc/CustomFileName.
6. Select one of your custom files to display your custom image.

About / Contact

About Portrait Displays

Portrait Displays, Inc., since 1993, is a leading application software provider (ASP) for PC, smartphone, and tablet displays. The Portrait Displays team now includes **SpectraCal**, the world's leading provider of video display calibration software. The combined companies offer value-added, feature-rich solutions to both OEM display manufacturers and end users seeking improved accuracy and manageability of their displays.

Portrait Displays, an Intel Capital Portfolio company, is a private corporation with headquarters in Pleasanton, California, USA with representatives in Europe, Taiwan, China, Japan, and Korea.

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