



# CaIMAN

# Setup Guide

CaIMAN VPS-2000

Video Pattern Set USB Drive

Rev. 1.1

## Introduction

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The CalMAN VPS-2000 Video Pattern Set USB Drive is designed to use with a Western Digital media player that you already own or purchase locally to assemble your own digital pattern generator.

The VPS-2000 set of over 2400 patterns was designed to support to the Dynamic Range control and luminance and saturation sweeps features in CalMAN.

The VPS-2000 patterns include:

- Grayscale luminance patterns at 5% increments.
- Grayscale pattern levels to 109%, for above-white testing with CalMAN 5 Dynamic Range control.
- Color luminance patterns at 25% increments.
- Color saturation patterns at 20% and 25% increments.

## Digital Pattern Generator

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To use the VPS-2000 Video Pattern Set USB Drive with a media player, simply insert the drive into an open USB port on the player before powering up the player.

A Western Digital media player with the VPS-2000 USB Drive attached can be controlled automatically by CalMAN using a USB-UIRT USB to IR interface, available from SpectraCal and other sources.

*Note: Automated CalMAN control of a media player with the VPS-2000 USB Drive requires a CalMAN Home Enthusiast, Video Pro or Ultimate license.*

## Digital Media Streaming

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The VPS-2000 video patterns can also be imported to a media stream with fixed durations per pattern to create an automated test and evaluation sequence.

## VPS-2000 USB Drive File Structure

The VPS-2000 Video Pattern Set contains patterns at the four major consumer video resolutions, 480, 576, 720, and 1080, at both SMPTE video levels and full range PC levels. It contains grayscale and color patterns at 5% luminance increments, color patterns at 20% and 25% saturation increments, and a full range of visual evaluation patterns.

The VPS-2000 USB Drive file structure is outlined below for the 1080 resolution. Though not shown, the same selection of patterns is also available for each of the other video resolutions (i.e. 480, 576, 720).

|             |           |         |                        |                                |
|-------------|-----------|---------|------------------------|--------------------------------|
| 01 Patterns |           |         |                        |                                |
|             | 01 CalMAN |         |                        |                                |
|             |           | 01 480  |                        |                                |
|             |           | 02 576  |                        |                                |
|             |           | 03 720  |                        |                                |
|             |           | 04 1080 |                        |                                |
|             |           |         | 01 Video Levels 16-235 |                                |
|             |           |         | 01 Small Luminance     | small window luminance levels  |
|             |           |         | 02 Large Luminance     | large window luminance levels  |
|             |           |         | 03 Full Luminance      | full screen luminance levels   |
|             |           |         | 04 Small Saturation    | small window saturation levels |
|             |           |         | 05 Large Saturation    | large window saturation levels |
|             |           |         | 06 Full Saturation     | full screen saturation levels  |
|             |           |         | 07 Specialty Patterns  | visual evaluation patterns     |
|             |           |         | 02 PC Levels 0-255     |                                |
|             |           |         | 01 Small Luminance     | small window luminance levels  |
|             |           |         | 02 Large Luminance     | large window luminance levels  |
|             |           |         | 03 Full Luminance      | full screen luminance levels   |
|             |           |         | 04 Small Saturation    | small window saturation levels |
|             |           |         | 05 Large Saturation    | large window saturation levels |
|             |           |         | 06 Full Saturation     | full screen saturation levels  |
|             |           |         | 07 Specialty Patterns  | visual evaluation patterns     |
|             | 02 User   |         |                        |                                |
| 02 Audio    |           |         |                        |                                |
| 03 Video    |           |         |                        |                                |

## 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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