SpectraCal

CM CalMAN
Setup Guide

Panasonic VX100 Plasma

Rev. 1.1

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DISPLAYS

Introduction

CalMAN automatically calibrates the Panasonic VX100 model display's two point grayscale controls. The display's two custom picture modes, ISF Day and ISF Night, can each be calibrated with individual picture menu adjustments and two point grayscale adjustments.

CalMAN Recommended Workflows

- HT Basic or SI Basic to optimize display Picture controls and calibrate white balance tracking.

Recommended Test Patterns

Plasma displays exhibit power supply luminance limiting with high brightness, high APL test patterns. This can cause incorrect luminance measurements. To avoid this situation with plasma displays, use test patterns with the smallest window size available from your test pattern source. Under Window Size, on the Source Settings panel, select the smallest window size that works with your color meter.

Required Panasonic Firmware

- Any version is acceptable

Panasonic Control Port

- RS-232
  DB9 female to DB9 female straight-through RS-232
  (pin2 – pin2, pin3 – pin3)

Panasonic Setup Process

To connect your computer to a VX100 with a serial cable:

- Connect a DB9 female to DB9 female straight through RS-232 cable between the display and the CalMAN computer (if necessary, use a USB to serial adapter).

CalMAN Connection Procedure

To connect CalMAN to the Panasonic display and enable the ISF mode:

1. In CalMAN, under *Find Display*, select "Panasonic – VX100 (RS-232)."

      a. Under *Serial Connection*, select the com port connected to the VX100.

      b. Click *Connect* on the display connect panel.

2. In CalMAN, on the *Display Control* panel.

      a. Under *Display Mode Selection*, select *ISF Day* or *ISF Night*.

      b. Under *Active Grayscale Points*, select 2 points.

Panasonic DDC Picture Controls:

Panasonic Picture controls are available within the CalMAN software, allowing you to make display adjustments in the software, rather than using the display's remote control. On those calibration workflow steps where you need to make a manual display adjustment (e.g. Brightness, Contrast, etc.), you can open the CalMAN DDC panel to make those adjustments from the CalMAN screen.

Panasonic Display Calibration:

- **Color Temp** – Select WARM for color temperature closest to the D65 target.

- **Color Management** (auto color) – Select OFF to disable auto color adjustment.

- **Advanced Settings/Black Extension** – Set to 0.

- **Advanced Settings/Gamma** – Select 2.2 or 2.4 to test for best performance to selected target.

- **Advanced Settings/AGC** (auto black level) - Select OFF to disable auto black level.

- **Advanced Settings/Studio Gain** - Select OFF.

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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.

Contact Us

SpectraCal

Submit a Technical Support Request:

http://calman.spectracal.com/techsupport.html

spectracal.com

sales@spectracal.com

+1-925-227-2700

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Portrait Displays, Inc.

6663 Owens Drive

Pleasanton, CA 94588 USA

portrait.com