

CaIMAN Setup Guide

Sharp Elite

Rev. 1.1

Introduction

The Sharp Elite display provides controls to calibrate two point or 10-point grayscale. It also provides controls to calibrate the CMS primary and secondary color gamut.

CalMAN Required Version

- Version 5.1.1, build 1188 or later

CalMAN Recommended Workflows

- Home Enthusiast or SI Advanced workflow to optimize Elite Picture controls and calibrate grayscale and CMS controls.

Sharp Elite Required Firmware

- Any version is acceptable

Sharp Elite Control Ports

The Sharp Elite can be connected to a computer for calibration control using one of the following ports.

- RS-232 port – DB-9 female to DB-9 female null-modem cable (pin2 to pin3, pin3 to pin2)
- Ethernet port – straight through (standard) cable
- Wi-Fi Wireless

Sharp Elite Connection to Computer

Connect 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 3.5mm jack to DB9 female adapter and/or a USB to serial converter.)

Connect with a wired or wireless network connection

Connect both the display and the CalMAN computer to a DHCP-capable network router with straight through Ethernet cables, **OR**, connect the CalMAN computer to a wireless network to which the display is already connected.

1. In the Sharp main MENU, select *Initial Setup* -> *Internet Setup* -> *Network Setup* -> *Connection Type* -> *Wired* (for direct Ethernet connection), **or** *Wireless* (for wireless Wi-Fi connection).
2. In the Sharp main MENU, select *Initial Setup* -> *Internet Setup* -> *Network Setup* -> *IP Setup*, then record the IP Address.
3. In the Sharp main MENU, select *Initial Setup* -> *Internet Setup* -> *Network Setup* -> *IP Control Setup*, then select *Change*, then *Enable*, then *Next*.
4. On the resulting *IP Login* screen, make sure the *Username* and *Password* fields are blank, then select *Next*.
5. Make sure the *Port* number is set to 10002, then select *Next*.
6. On the resulting confirmation screen, select *OK*.

CalMAN Connection to Sharp Elite

1. In CalMAN, under “Find Display,” select “Sharp – 2011 Elite (RS-232, Ethernet).”

Serial Connection

- a. Under “Connection Method,” select “COMM.”
- b. Under “Serial Connection,” select the com port connected to the display.
- c. Click *Connect* on the *Find Display* dialog.

Ethernet Connection

- a. Under “Connection Method,” select “Socket.”
 - b. Under “Socket Connection,” enter the Sharp’s IP Address that you previously recorded.
 - c. Click *Connect* on the *Find Display* dialog.
2. On the CalMAN *Display Control* panel, under *Active Grayscale Points*, select “10 pt.”

Sharp Elite DDC Picture Controls

Sharp picture controls (i.e. Brightness, Contrast, etc.) 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, you can open the CalMAN DDC panel to make those adjustments from the CalMAN screen. On the *Display Settings* tab, click the *Open DDC Window* button, then scroll to the *Display Controls* panel to access the display adjustments.

Sharp Elite Display Setup

Turn off the display's Intelligent Variable Contrast (local dimming) while calibrating the display.

After the display has been calibrated, Intelligent Variable Contrast can be turned back on, if desired.

CalMAN AutoCal Calibration

Prior to CalMAN Grayscale AutoCal, set the display's Contrast control to 80.

When AutoCal is complete, reset the Contrast control to the optimum setting previously determined on the Dynamic Range step.

Color and Tint

In the ISF mode, the Sharp's Color and Tint controls are disabled in CalMAN, since the Colorbar test pattern is a three color tool that doesn't work properly on a four color display (RGBY) such as the Sharp.

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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