

Sharp Elite

CalMAN Setup Guide

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.

Required CalMAN Version:

- Version 5.1.1, build 1188 or later

Recommended CalMAN Workflows:

- HT Advanced or SI Advanced to optimize Picture controls and calibrate grayscale and CMS.

Required Sharp Elite Firmware:

- Any version is acceptable

Sharp Elite Control Connection:

- DB-9 female to DB-9 female null-modem RS-232 cable (pin2 to pin3, pin3 to pin2), or
- Ethernet straight through (standard) cable for direct connection, or
- Wireless (WiFi) connection

Sharp Elite Setup Process:

To connect the calibration computer to a Sharp Elite with a serial cable:

1. 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. Also, if necessary, use a USB to serial adapter)

To connect the calibration computer to a Sharp Elite with a wired or wireless network connection:

1. Connect both the display and the CalMAN computer to a DHCP-capable network router with straight through ethernet cables, **or**
2. Connect the CalMAN computer to a wireless network to which the display is already connected (may require a security password).
 - a. In the Sharp main MENU, select *Initial Setup* -> *Internet Setup* -> *Network Setup* -> *Connection Type* -> *Wired* (for direct ethernet connection), **or** *Wireless* (for wireless WiFi connection).
 - b. In the Sharp main MENU, select *Initial Setup* -> *Internet Setup* -> *Network Setup* -> *IP Setup*, then record the IP Address.
 - c. In the Sharp main MENU, select *Initial Setup* -> *Internet Setup* -> *Network Setup* -> *IP Control Setup*, then select *Change*, then *Enable*, then *Next*.
 - d. On the resulting *IP Login* screen, make sure the *Username* and *Password* fields are blank, then select *Next*.
 - e. Make sure the *Port* number is set to 10002, then select *Next*.
 - f. On the resulting confirmation screen, select *OK*.

CalMAN Connection Procedure

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 display connect panel.
 - 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 display connect panel.
2. On the *Display Control* panel, under *Active Grayscale Points*, select 10 pt.

Sharp Elite DDC Picture Controls:

Sharp 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. 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 Calibration:

Intelligent Variable Contrast (local dimming) needs to be turned off for calibration of the display. Once the display has been calibrated, Intelligent Variable Contrast can be turned back on, if desired.

CalMAN AutoCal:

- 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.