

Panasonic

VX200/VX300/BT300 Plasma Displays

CalMAN Setup Guide

Panasonic VX200/VX300 (BT300 below)

CalMAN automatically calibrates the Panasonic VX200/VX300 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.

Recommended CalMAN 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 Connection:

- DB9 female to DB9 female straight through RS-232 (pin2 to pin2, pin3 to pin3), or
- Ethernet straight through (standard) cable for direct connection, or
- Wireless (WiFi) connection

Panasonic Setup Process:

To connect your computer to a VX200/VX300 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 USB to serial adapter).

CalMAN Connection Procedure

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

1. In CalMAN, under *Find Display*, select "Panasonic – VX200, VX300, BT300."
 - a. Under *Serial Connection*, select the com port connected to the display.
 - b. Click *Connect* on the display connect panel.
2. In CalMAN, on the Direct 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.
- **Advanced Settings/Black Extension** – Set to 0.
- **Advanced Settings/Input Level** – Select 0.
- **Advanced Settings/Gamma** – Select 2.2 or 2.4 to test for best performance to selected target.
- **Advanced Settings/Studio Gain** - Select OFF.
- **Advanced Settings/Color Gamut** - Select HDTV COLOR for standard BT.709 color space.

Panasonic BT300

CalMAN automatically calibrates the Panasonic BT300 display's two point grayscale controls.

Recommended CalMAN Workflows:

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

Required Panasonic Firmware:

- Any version is acceptable

Panasonic Control Connection:

- DB9 female to DB9 female straight through RS-232 (pin2 to pin2, pin3 to pin3), or
- Ethernet straight through (standard) cable for direct connection, or
- Wireless (WiFi) connection

Panasonic Setup Process:

To connect your computer to a BT300 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 USB to serial adapter).

CalMAN Connection Procedure

To connect CalMAN to the Panasonic display:

1. In CalMAN, under *Find Display*, select "Panasonic – VX200, VX300, BT300."
 - a. Under *Serial Connection*, select the com port connected to the display.
 - b. Click *Connect* on the display connect panel.

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:

- **Picture Mode** – Select MONITOR for most accurate picture levels.
- **Color Temp** – Select WARM for color temperature closest to the D65 target.
- **Advanced Settings/Black Extension** – Set to 0.
- **Advanced Settings/Input Level** – Select 0.
- **Advanced Settings/Gamma** – Select 2.2 or 2.4 to test for best performance to selected target.
- **Advanced Settings/Studio Gain** - Select OFF.
- **Advanced Settings/Color Gamut** - Select BT.709 for standard HD color space.