Colorbration⁺

User Guide

Contents

Introduction

What is Colorbration⁺?

Color accuracy is one of the most important aspects of the creative workflow and ensuring that your monitor's color accurately represents the color of your original image or digital file is essential. The software allows you to:

- Calibrate and profile your monitor quickly and easily.
- Control white point, luminance, contrast ratio, gamma, and more.
- Save time, money, guesswork, and frustration that generally comes with monitor calibration.
- Focus on your work with complete confidence.

Monitor Support

Colorbration⁺ supports the following models:

- VP2458
- VP2468
- VP2768
- VP2768-4K
- VP2771
- VP2785-2K
- VP2785-4K
- VP3268
- VP3481
- VP3881

Measurement Device Support

Currently, Colorbration⁺ supports:

- X-Rite:
  - » i1 Display Pro
  - » i1 Pro 2
  - » ColorMunki Photo
  - » ColorMunki Design
  - » i1Studio
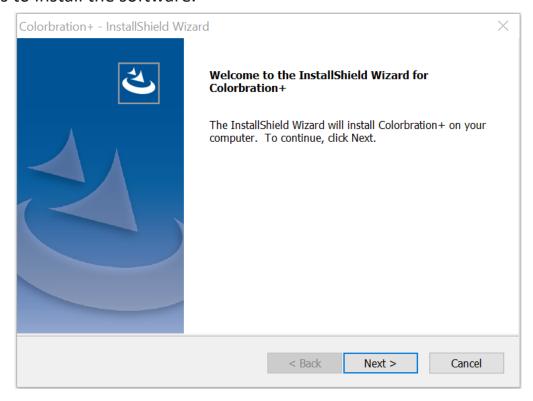- Datacolor
  - » Spyder X series

Initial Setup

This section provides important instructions for getting started with Colorbration⁺.

Where to Get Colorbration⁺?

The Colorbration⁺ software can be downloaded at:

https://color.viewsonic.com/support/software

After the download completes, launch the Setup file and follow the on-screen directions to install the software.
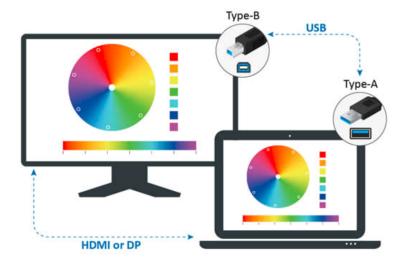
Connection Methods

In addition to downloading the software, ensure that your monitor and measurement device are properly connected. There are two methods of connection for your monitor:
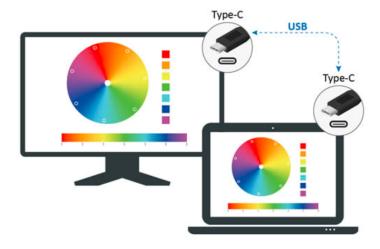
Users with HDMI or DisplayPort

Users with an HDMI or DisplayPort connection should also connect their monitor and computer via a USB Type-B to USB Type-A cable.
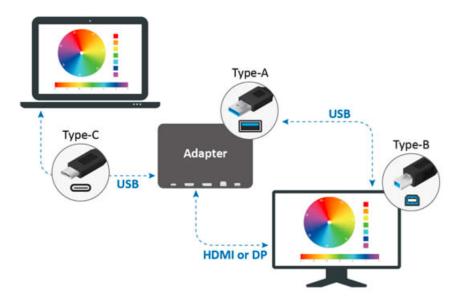
Users with USB Type-C

Users with a USB Type-C connection can connect their monitor and computer in one of two ways:
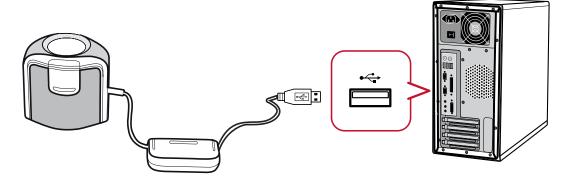
- USB Type-C cable

- Or, connect via HDMI/DisplayPort and USB Type-A to the monitor through a USB Type-C adapter.

Measurement Device Connection

> **NOTE:** The follow images are for reference only. The installation method will vary by the measurement device used. Please refer to the user manual of the respective measurement device for details.
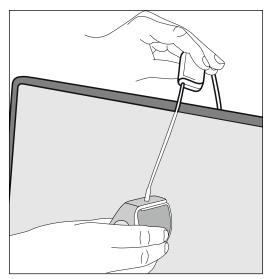
1. Ensure your measurement device is connected properly.

2. Tilt your monitor slightly upwards.

3. Carefully place the measurement device in contact with the monitor's display.
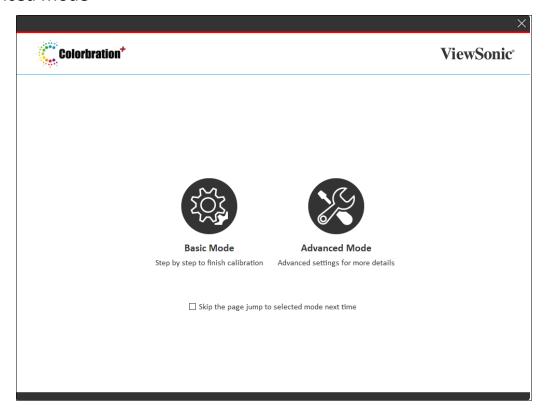
Using Colorbration⁺

This section will describe use and operation of Colorbration⁺.

Introduction

Upon initially launching Colorbration⁺ the user will have two modes to choose from:

- Basic Mode
- Advanced Mode
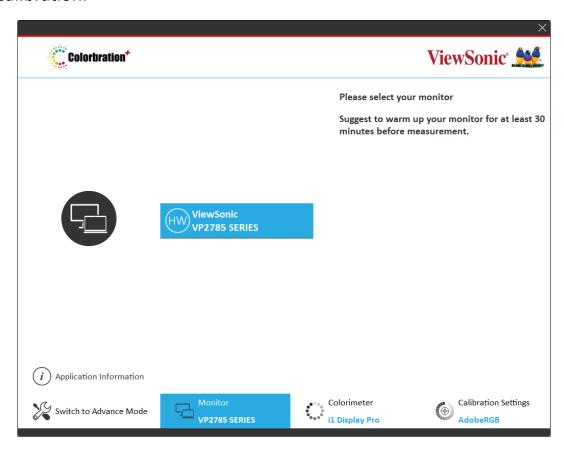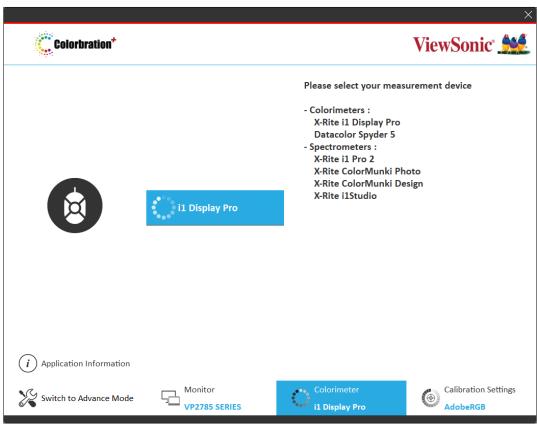
NOTE: The user can choose to skip the welcome page by checking the box under the two modes.
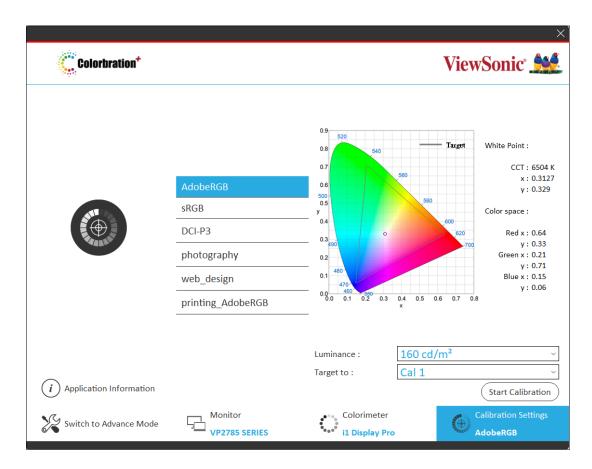
☐ Skip the the page and jump to selected mode next time.

⚙ Basic Mode

This mode simplifies the calibration process. The user simply selects their monitor, measurement device, and calibration settings before starting calibration.
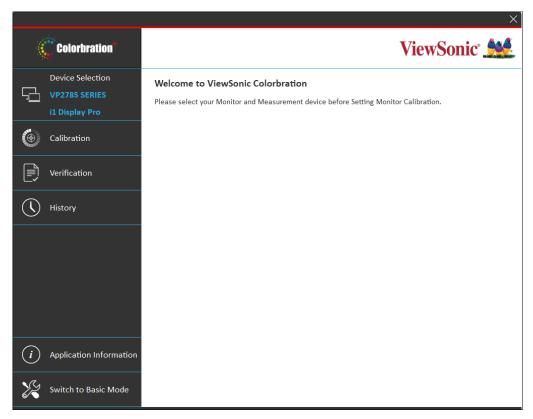
NOTE: Calibration settings can be further customized by adjusting "Luminance" and selecting which user profile (e.g., **Cal 1/Cal 2/Cal 3**) the calibration result will be saved to.

Advanced Mode

This mode provides the user with more detailed options, via the Sidebar Menu, in addition to the basic ones found in Basic Mode.
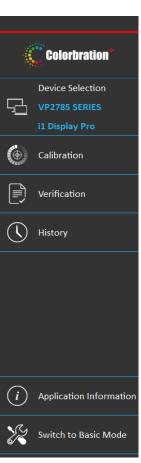
Sidebar Menu

On the left side of Advanced Mode is the Sidebar Menu.

Menu Option	Description
Device Selection	Select your monitor and measurement device.
Calibration	Choose your calibration settings and start calibration.
Verification	Choose your verification settings and start verification.
History	Review previous calibrations.

NOTE: For more information, see "Sidebar Menu" on page 14.
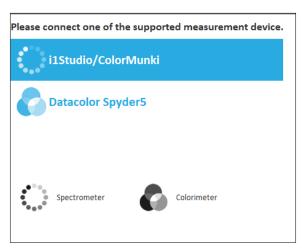
General Operation

To begin the Advanced Mode calibration process:

1. Select **Device Selection**, then the monitor you wish to calibrate from the available options.

2. Connect and select the measurement device you wish to use from the available options.

3. Select **Calibration** on the Sidebar Menu.
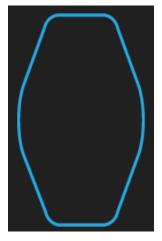
4. Choose your desired calibration settings from the drop-down menu, or create a custom profile (for more information, see "Custom Calibration Profile" on page 18).

Calibration Settings :   AdobeRGB   ⌄   ⊕

5. Once the calibration settings have been chosen, select ⊕ Start calibration to begin the calibrating process.

6. Line up your measuring device with the outline indicated on screen.

7. Select **Next** to begin calibration.
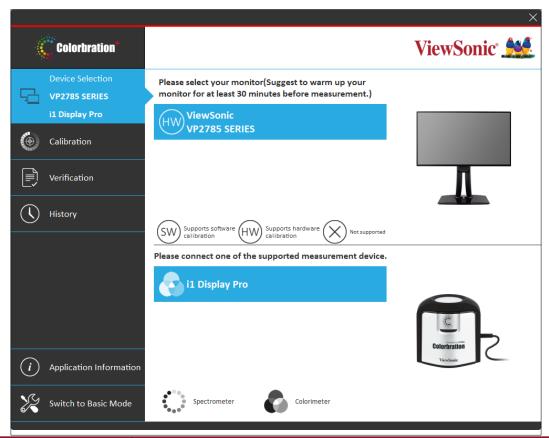
  NOTE: During calibration the screen will rapidly flash between several color patterns.

8. After the calibration is completed, the Calibration Result will appear (for more information, see "Calibration Result" on page 19). The report can also be saved if desired.

Sidebar Menu

The Sidebar Menu includes: Device Selection, Calibration, Verification, and History.

Device Selection Menu

Menu Option	Description
Monitor Selection	Choose the target monitor for calibration.
Measurement Device Selection	Choose the measurement device to be used for calibration.

NOTE:
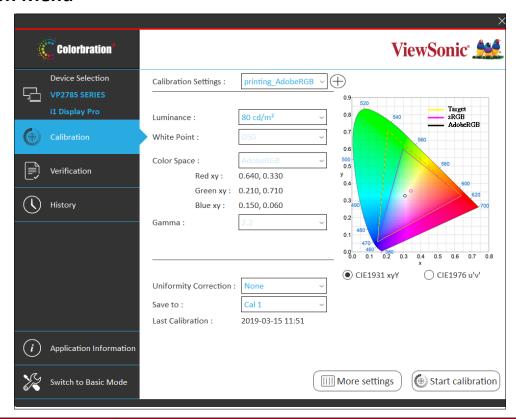
- Please note in **Monitor Selection**:

Status	Description
SW	Supports Software Calibration
HW	Supports Hardware Calibration
X	Not Supported

- Please note in **Measurement Device Selection**:

Device	Description
	Spectrometer
	Colorimeter

Calibration Menu
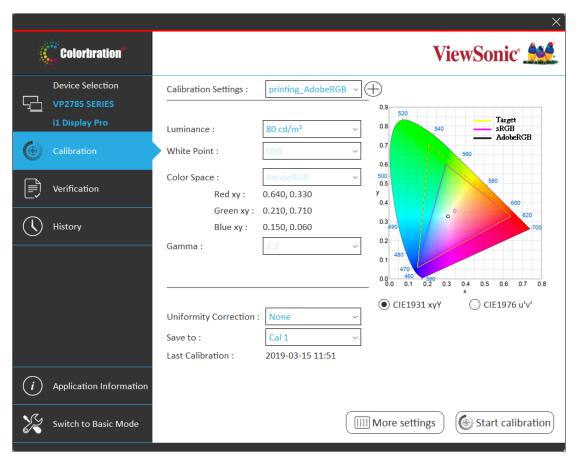
Menu Option	Description
Calibration Settings	Choose from several predefined settings: Adobe RGB Precise color gamut and gamma of Adobe RGB standard. sRGB Precise color gamut and gamma of sRGB standard. DCI-P3 Precise color gamut and gamma of DCI-P3 standard. Photography Color gamut ideal for photos and photography work. Web Design Color gamut ideal for internet usage. Printing Pre-press printing quality color checking.
Luminance	Adjustable rate at which a source emits light in a specific direction.
White Point	The color and intensity of a device's brightest white.
Color Space	Allows users to choose which color space they would like to use for monitor color output.
Gamma	A measure of the amount of contrast found in an image according to the slope of a gradation curve.

Uniformity Correction	Compensates any luminance and color uniformity imbalances on the screen, such as dark spots, uneven brightness, or illegible images on the screen. None Calibration without uniformity correction. 3x3 Uniformity correction using a 3x3 grid. 5x5 Uniformity correction using a 5x5 grid. 7x3 Uniformity correction using a 7x3 grid.
Save To	After calibration, save and set the personalized settings. Cal 1 / Cal 2 / Cal 3 Select **Cal 1**, **Cal 2**, or **Cal 3** to save the calibration result into the monitor.
Last Calibration	Indicates date and time of last calibration.
More Settings	Pop-up window to select more ICC Profile related options and Test Pattern patches. **ICC Profile Setting** Chromatic adaptation: Bradford (default) ICC profile version: Version 4 (default) Profile type: Matrix based (default) **Test Pattern Setting** Patches: 11B 141 User default Save and close
Start Calibration	Begin the calibration process.

Custom Calibration Profile

In addition to the predefined settings, users can also create a custom calibration profile to fit their specific needs. Users can adjust: Luminance, White Point, Color Space, and Gamma.

To setup a new custom profile:

1. Select **Calibration** on the Sidebar Menu.

2. Next to Calibration Settings select the ⊕ icon.

3. Choose the preferred settings for: Luminance, White Point, Color Space, and Gamma.

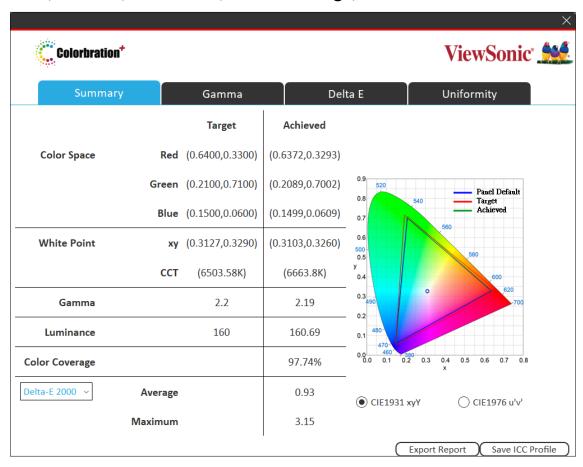**4.** Name the custom profile and select **Save**.

Calibration Result

Upon completion of the calibration, the calibration result will appear. The user can review the results from four tabs: Summary, Gamma, Delta E, and Uniformity.

Summary

The Summary tab will display the Target and Achieved values for: Color Space, White Point, Gamma, Luminance, Color Coverage, and Delta E.
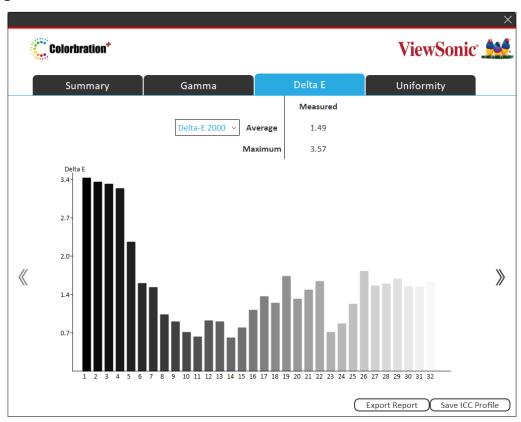
Gamma

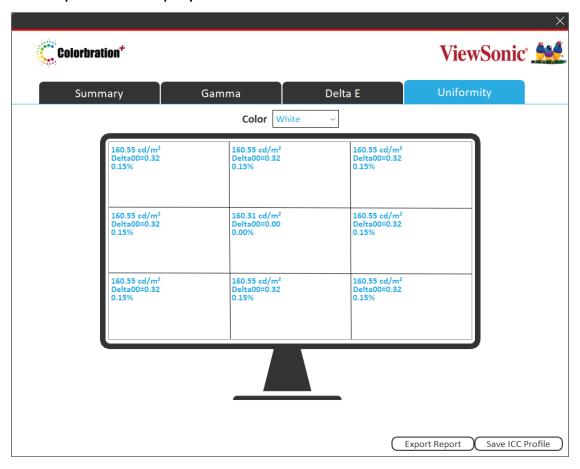The Gamma tab will display various values for reference.

Delta E

The Delta E tab will display the Target and Achieved values for: Delta E Maximum and Average.
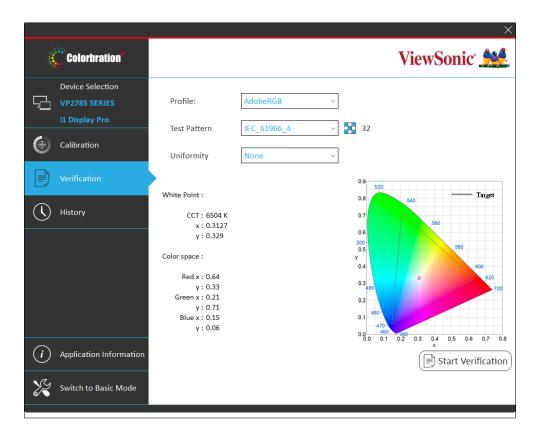
Uniformity

The Uniformity tab will display the Luminance values of the monitor.

160.55 cd/m² Delta00=0.32 0.15%	160.55 cd/m² Delta00=0.32 0.15%	160.55 cd/m² Delta00=0.32 0.15%
160.55 cd/m² Delta00=0.32 0.15%	160.31 cd/m² Delta00=0.00 0.00%	160.55 cd/m² Delta00=0.32 0.15%
160.55 cd/m² Delta00=0.32 0.15%	160.55 cd/m² Delta00=0.32 0.15%	160.55 cd/m² Delta00=0.32 0.15%

Color White

Export Report   Save ICC Profile
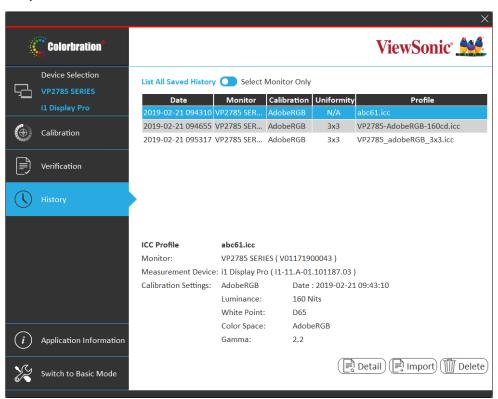
Verification Menu

Menu Option	Description
Profile	Select from various color space profiles.
Test Pattern	Choose the desired test pattern for calibration.
Uniformity	Adjust the uniformity correction grid.
Start Verification	Start the verification process.

History Menu

View previously saved calibration results.

Appendix

Software Update

If a new software version is available, a pop up message will appear at the launch of Colorbration⁺ as shown below:

Additionally, the user can check for updates by selecting **Application Information** in Basic Mode or Advanced Mode.

Basic Mode	Advanced Mode
ⓘ Application Information	ⓘ Application Information

NOTE: It is suggested that the user always updates to the latest software version available.

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