



Colorbration⁺
User Guide

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> 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
- VP2785-4K
- VP3268
- VP3881

Measurement Device Support

Currently, Colorbration+ supports:

- X-Rite:
 - » i1 Display Pro
 - » i1 Pro 2
 - » ColorMunki Photo
 - » ColorMunki Design
 - » i1Studio
- Datacolor
 - » Spyder 5

> Initial Setup

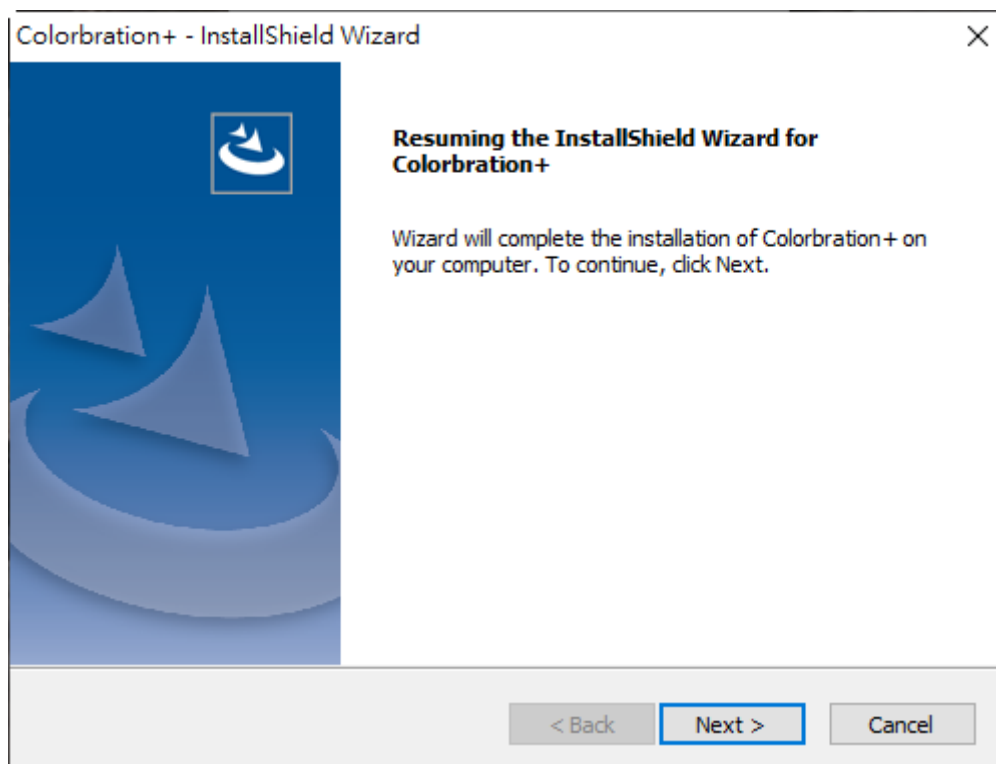
This section provides important instructions for getting started with Colorbration+.

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.

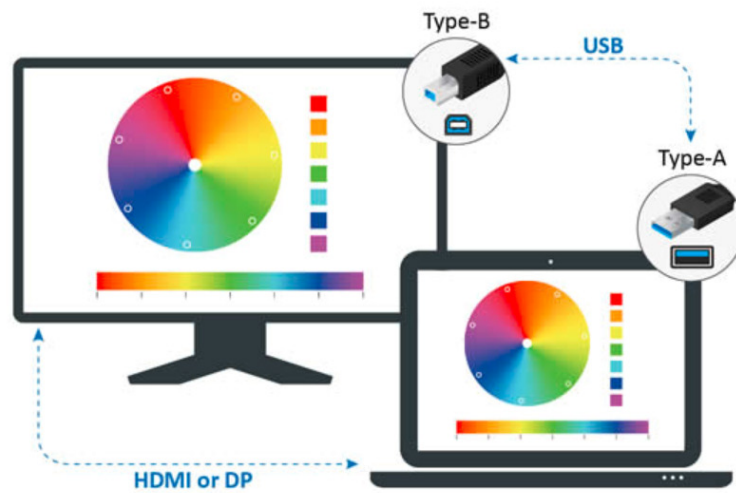


Connection Methods

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

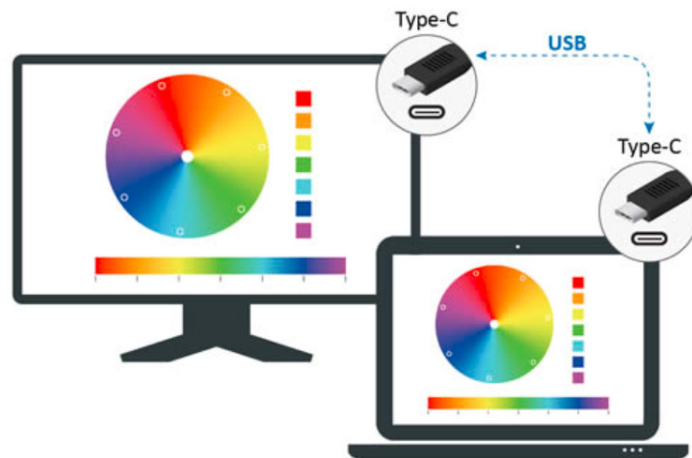
Users with an HDMI or DisplayPort connection should also connect their monitor and computer via a USB Type-B to USB Type-A cable.



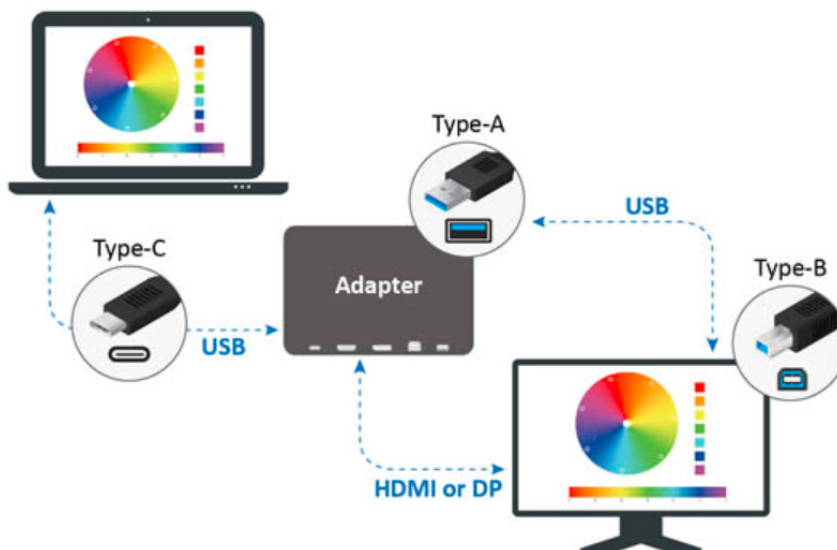
Users with USB Type-C

Users with a USB Type-C connection can connect their monitor and computer 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.



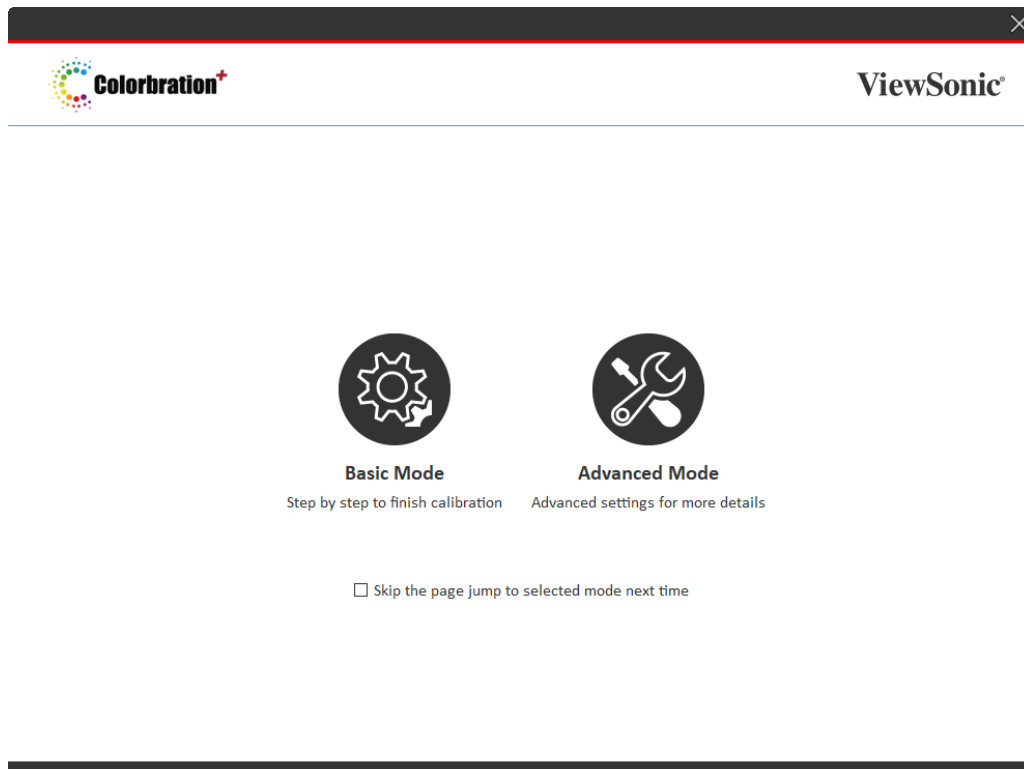
> Using Colorbration⁺

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.

Colorbration+ ViewSonic

Please select your monitor

Suggest to warm up your monitor for at least 30 minutes before measurement.

ViewSonic VP2785 SERIES

Application Information

Switch to Advance Mode

Monitor VP2785 SERIES

Colorimeter i1 Display Pro

Calibration Settings AdobeRGB

Colorbration+ ViewSonic

Please select your measurement device

- Colorimeters :
 - X-Rite i1 Display Pro
 - Datacolor Spyder 5
- Spectrometers :
 - X-Rite i1 Pro 2
 - X-Rite ColorMunki Photo
 - X-Rite ColorMunki Design
 - X-Rite i1Studio

i1 Display Pro

Application Information

Switch to Advance Mode

Monitor VP2785 SERIES

Colorimeter i1 Display Pro

Calibration Settings AdobeRGB

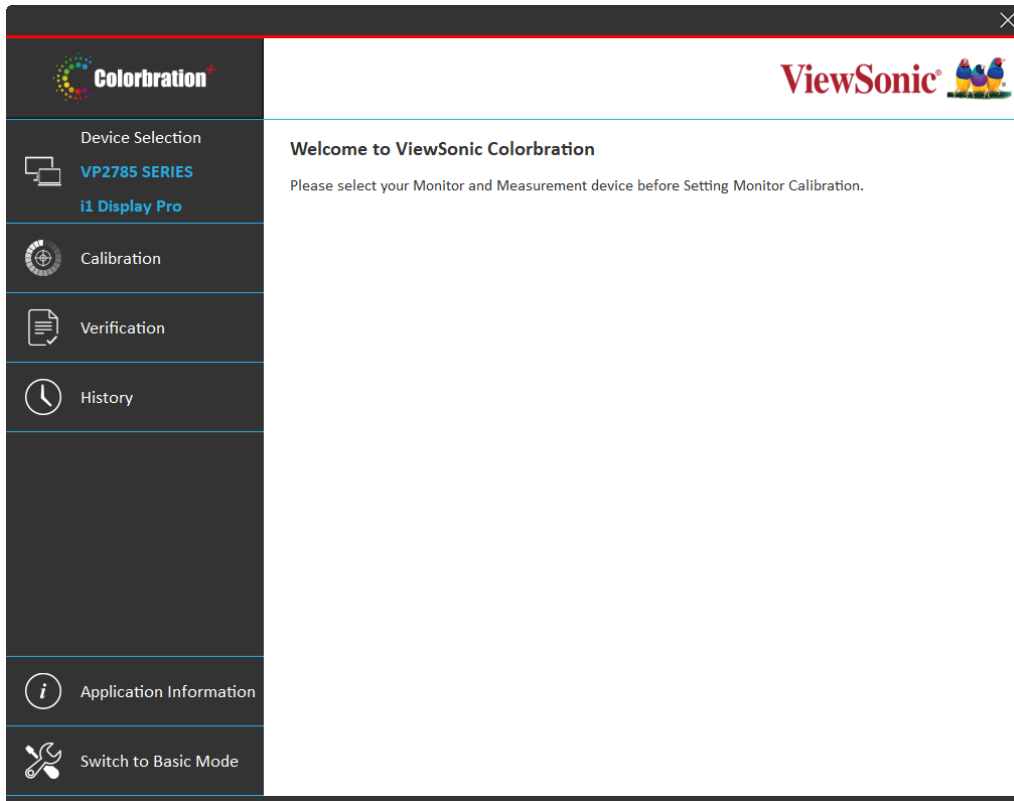
The screenshot shows the Colorbration+ software interface. At the top, the Colorbration+ logo is on the left and the ViewSonic logo is on the right. The main area features a color gamut chart with a 'Target' line and various wavelength markers (350, 380, 400, 420, 440, 460, 480, 500, 520, 540, 560, 580, 600, 620, 640, 660, 680, 700). To the left of the chart is a circular target icon and a list of color spaces: AdobeRGB (selected), sRGB, DCI-P3, photography, web_design, and printing_AdobeRGB. To the right of the chart, the 'White Point' is set to CCT: 6504 K, with x: 0.3127 and y: 0.329. The 'Color space' is set to AdobeRGB, with Red x: 0.64, y: 0.33; Green x: 0.21, y: 0.71; and Blue x: 0.15, y: 0.06. Below the chart, the 'Luminance' is set to 160 cd/m² and the 'Target to' is set to Cal 1. A 'Start Calibration' button is located below these settings. At the bottom, there are icons for 'Application Information', 'Switch to Advance Mode', 'Monitor VP2785 SERIES', 'Colorimeter i1 Display Pro', and 'Calibration Settings AdobeRGB'.

NOTE: Calibration settings can be further customized by adjusting “Luminance” and selecting which user profile, i.e. Cal 1/2/3, 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.

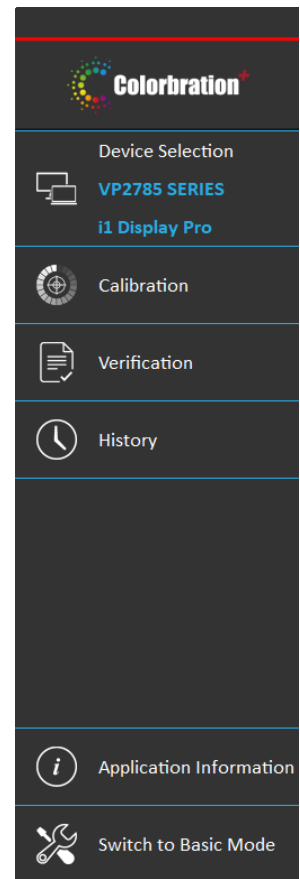


Sidebar Menu

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.

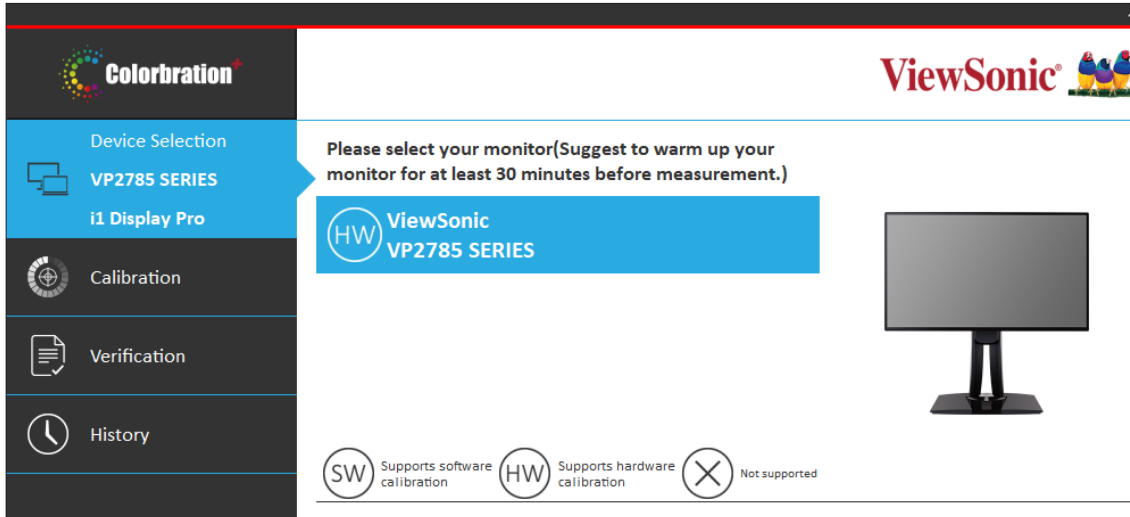
NOTE: For more information, see “Sidebar Menu” on page 13.



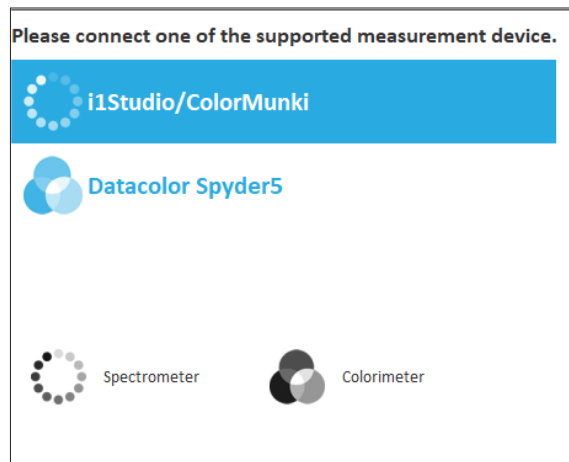
General Operation

To begin the Advanced Mode calibration process:

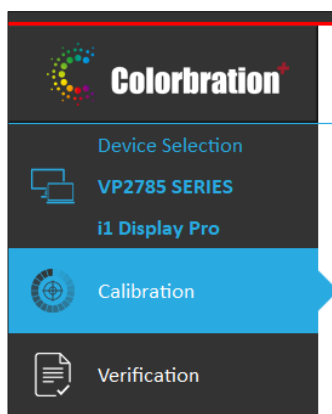
1. Select **Device Selection**, then the monitor you wish to calibrate from the available options.



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 17).



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.

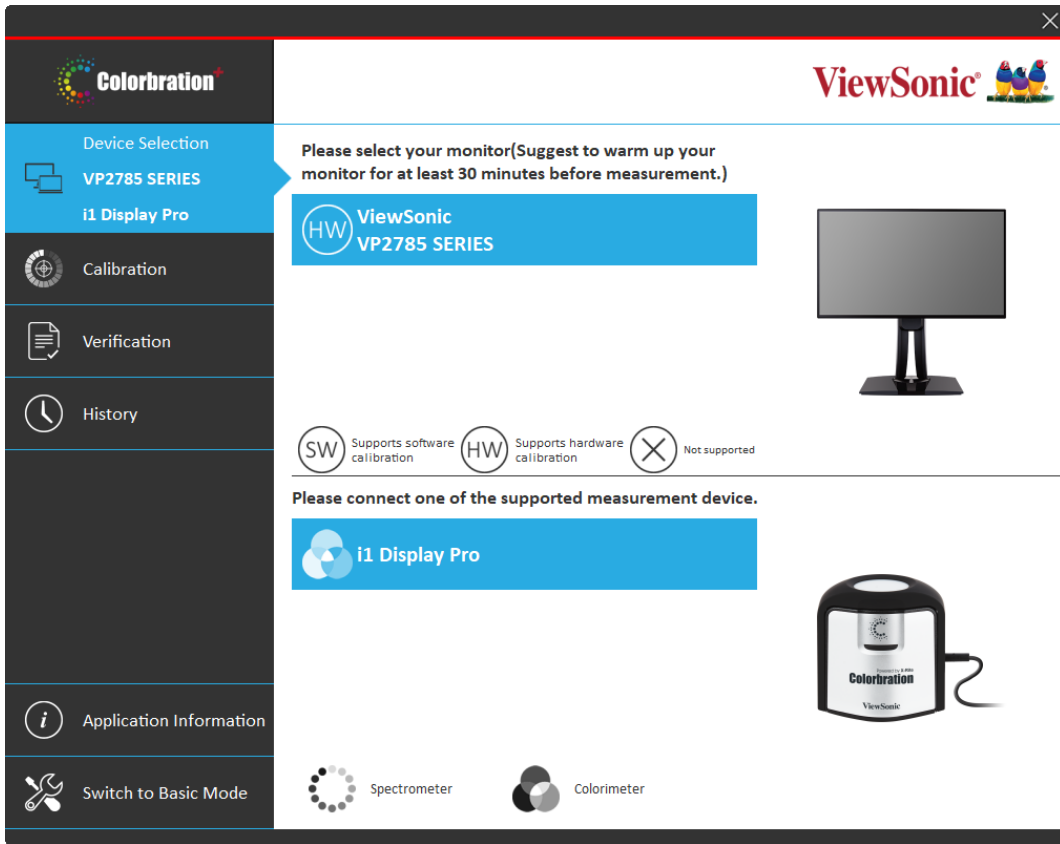
NOTE: During calibration the screen will rapidly flash between several color patterns.

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:

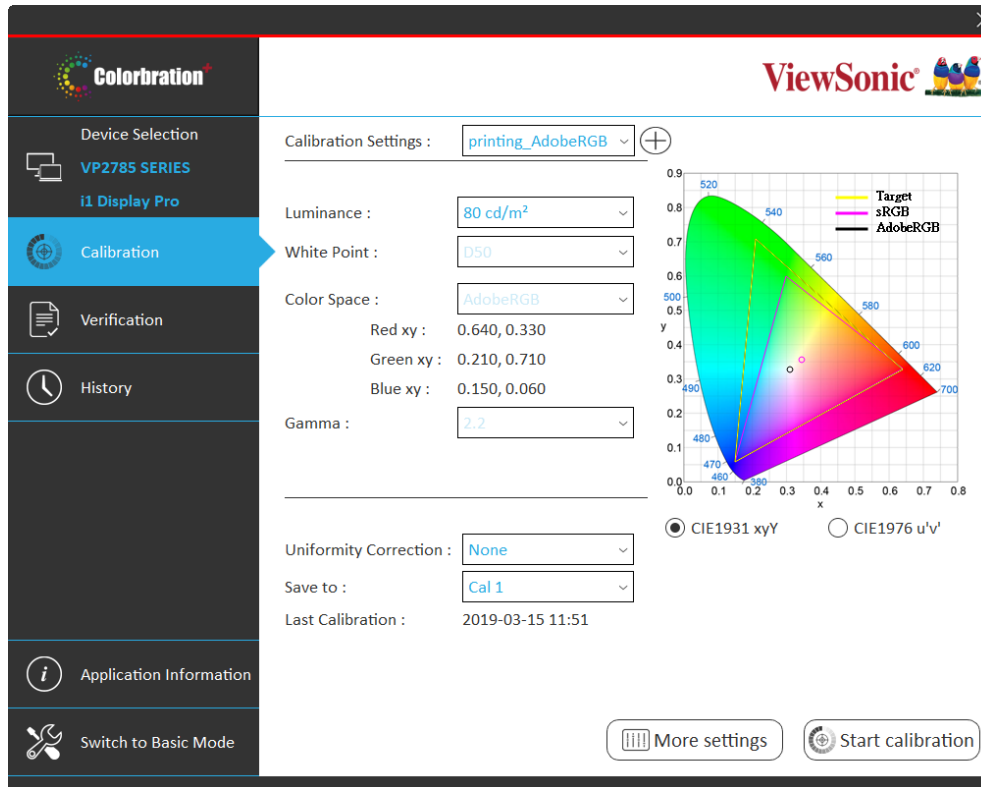
- Please note in Monitor Selection:

Status	Description
	Supports Software Calibration
	Supports Hardware Calibration
	Not Supported

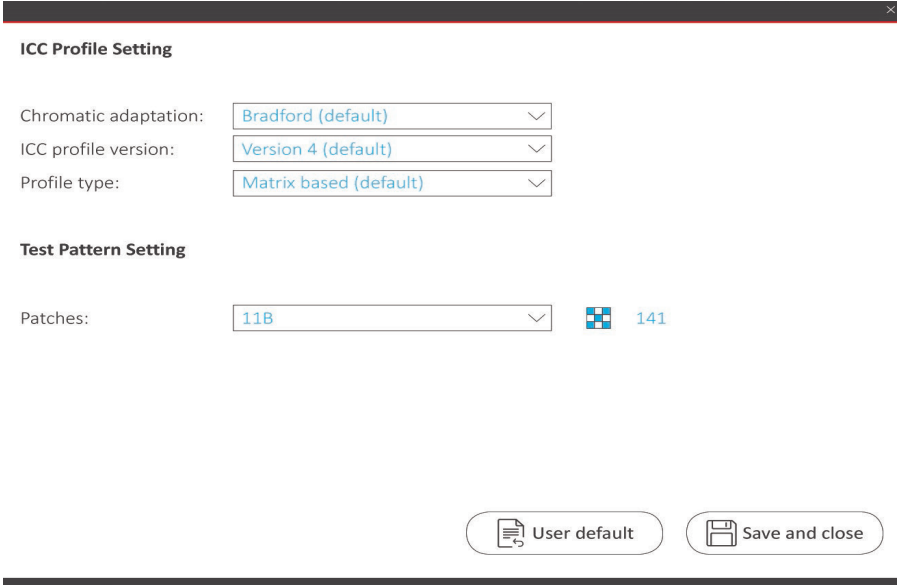
- Please note in Measurement Device Selection:

Device	Description
	Spectrometer
	Colorimeter

Calibration Menu

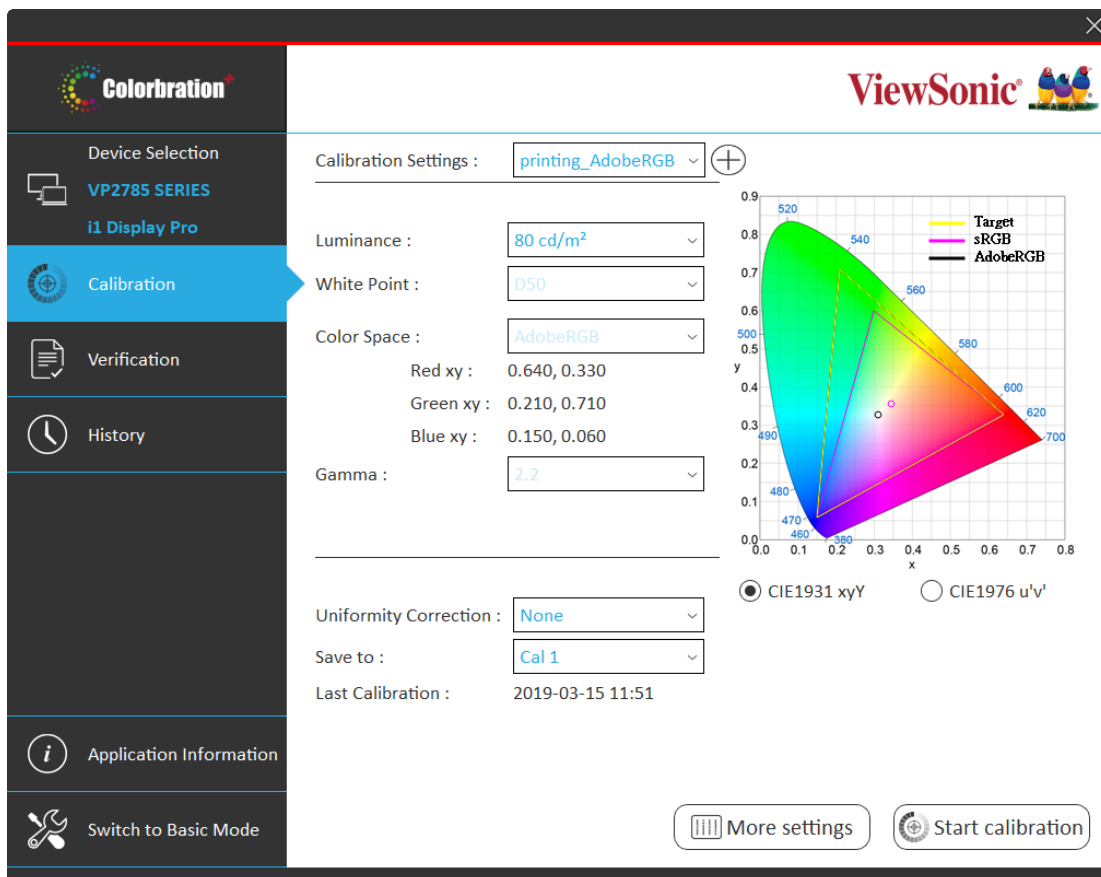


Menu Option	Description
Calibration Settings	<p>Choose from several predefined settings:</p> <p><u>Adobe RGB</u> Precise color gamut and gamma of Adobe RGB standard.</p> <p><u>sRGB</u> Precise color gamut and gamma of sRGB standard.</p> <p><u>DCI-P3</u> Precise color gamut and gamma of DCI-P3 standard.</p> <p><u>Photography</u> Color gamut ideal for photos and photography work.</p> <p><u>Web Design</u> Color gamut ideal for internet usage.</p> <p><u>Printing</u> Pre-press printing quality color checking..</p>
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.


<p>Uniformity Correction</p>	<p>Compensates any luminance and color uniformity imbalances on the screen, such as dark spots, uneven brightness, or illegible images on the screen.</p> <p><u>None</u> Calibration without uniformity correction.</p> <p><u>3x3</u> Uniformity correction using a 3x3 grid.</p> <p><u>5x5</u> Uniformity correction using a 5x5 grid.</p> <p><u>7x3</u> Uniformity correction using a 7x3 grid.</p>
<p>Save To</p>	<p>After calibration, save and set the personalized settings.</p> <p><u>Cal 1 / Cal 2 / Cal 3</u> Select Cal 1, Cal 2, or Cal 3 to save the calibration result into the monitor.</p>
<p>Last Calibration</p>	<p>Indicates date and time of last calibration.</p>
<p>More Settings</p>	<p>Pop-up window to select more ICC Profile related options and Test Pattern patches.</p> 
<p>Start Calibration</p>	<p>Begin the calibration process.</p>

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.

Calibration Settings : 

3. Choose the preferred settings for: Luminance, White Point, Color Space, and Gamma.
4. Name the custom profile and select **Save**.

Calibration Settings :

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.

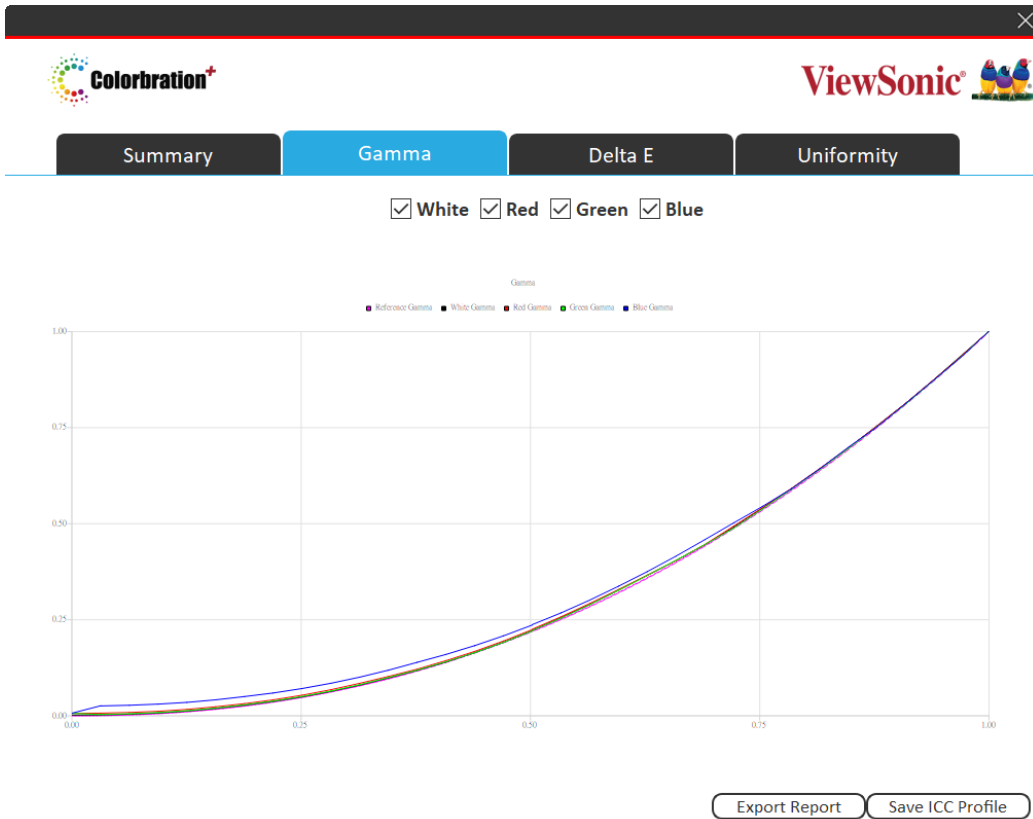
	Target	Achieved
Color Space	Red (0.6400,0.3300)	(0.6372,0.3293)
	Green (0.2100,0.7100)	(0.2089,0.7002)
	Blue (0.1500,0.0600)	(0.1499,0.0609)
White Point	xy (0.3127,0.3290)	(0.3103,0.3260)
	CCT (6503.58K)	(6663.8K)
Gamma	2.2	2.19
Luminance	160	160.69
Color Coverage		97.74%
Delta-E 2000	Average	0.93
	Maximum	3.15

CIE1931 xyY CIE1976 u'v'

[Export Report](#) [Save ICC Profile](#)

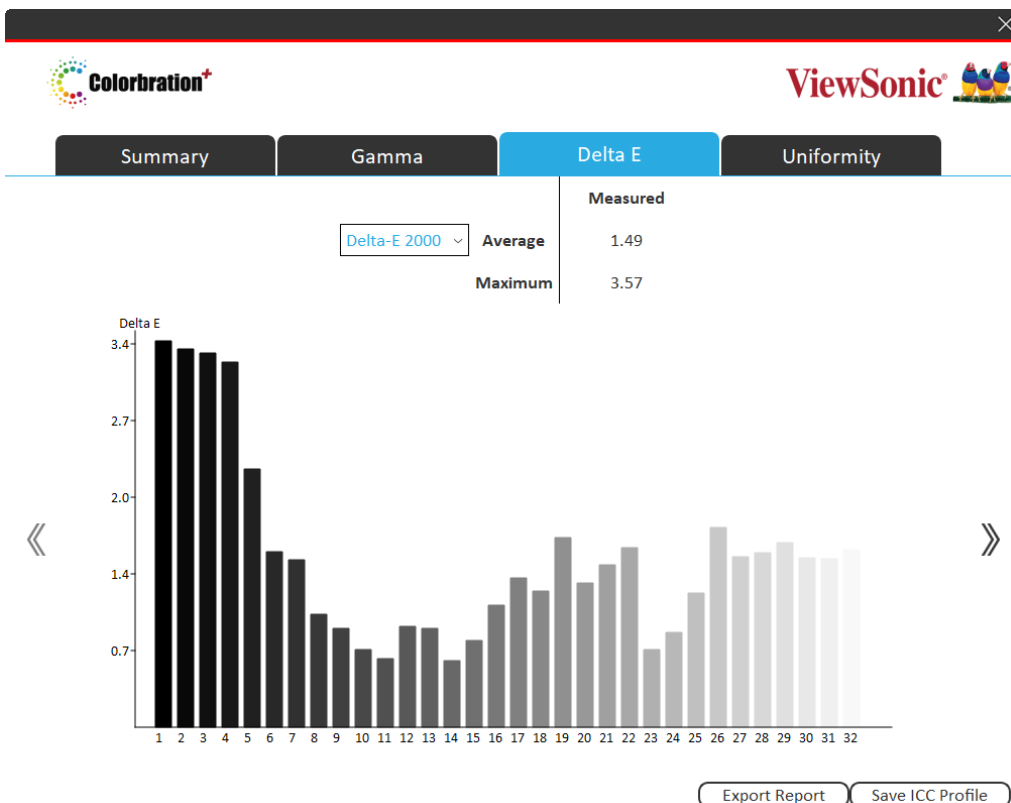
Gamma

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.

Colorbration+ ViewSonic

Summary Gamma Delta E Uniformity

Color White

160.55 cd/m ² Delta00=0.32 0.15%	160.55 cd/m ² Delta00=0.32 0.15%	160.55 cd/m ² Delta00=0.32 0.15%
160.55 cd/m ² Delta00=0.32 0.15%	160.31 cd/m ² Delta00=0.00 0.00%	160.55 cd/m ² Delta00=0.32 0.15%
160.55 cd/m ² Delta00=0.32 0.15%	160.55 cd/m ² Delta00=0.32 0.15%	160.55 cd/m ² Delta00=0.32 0.15%

Export Report Save ICC Profile

Verification Menu

Colorbration ViewSonic

Device Selection
VP2785 SERIES
i1 Display Pro

Calibration

Verification

History

Application Information

Switch to Basic Mode

Profile: AdobeRGB

Test Pattern: IEC_61966_4 32

Uniformity: None

White Point :
CCT : 6504 K
x : 0.3127
y : 0.329

Color space :
Red x : 0.64
y : 0.33
Green x : 0.21
y : 0.71
Blue x : 0.15
y : 0.06

Start Verification

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.

Colorbration **ViewSonic**

Device Selection
VP2785 SERIES
i1 Display Pro

Calibration

Verification

History

Application Information

Switch to Basic Mode

List All Saved History Select Monitor Only

Date	Monitor	Calibration	Uniformity	Profile
2019-02-21 094310	VP2785 SER...	AdobeRGB	N/A	abc61.icc
2019-02-21 094655	VP2785 SER...	AdobeRGB	3x3	VP2785-AdobeRGB-160cd.icc
2019-02-21 095317	VP2785 SER...	AdobeRGB	3x3	VP2785_adobeRGB_3x3.icc

ICC Profile **abc61.icc**

Monitor: VP2785 SERIES (V01171900043)

Measurement Device: i1 Display Pro (I1-11.A-01.101187.03)

Calibration Settings: AdobeRGB Date : 2019-02-21 09:43:10

 Luminance: 160 Nits

 White Point: D65

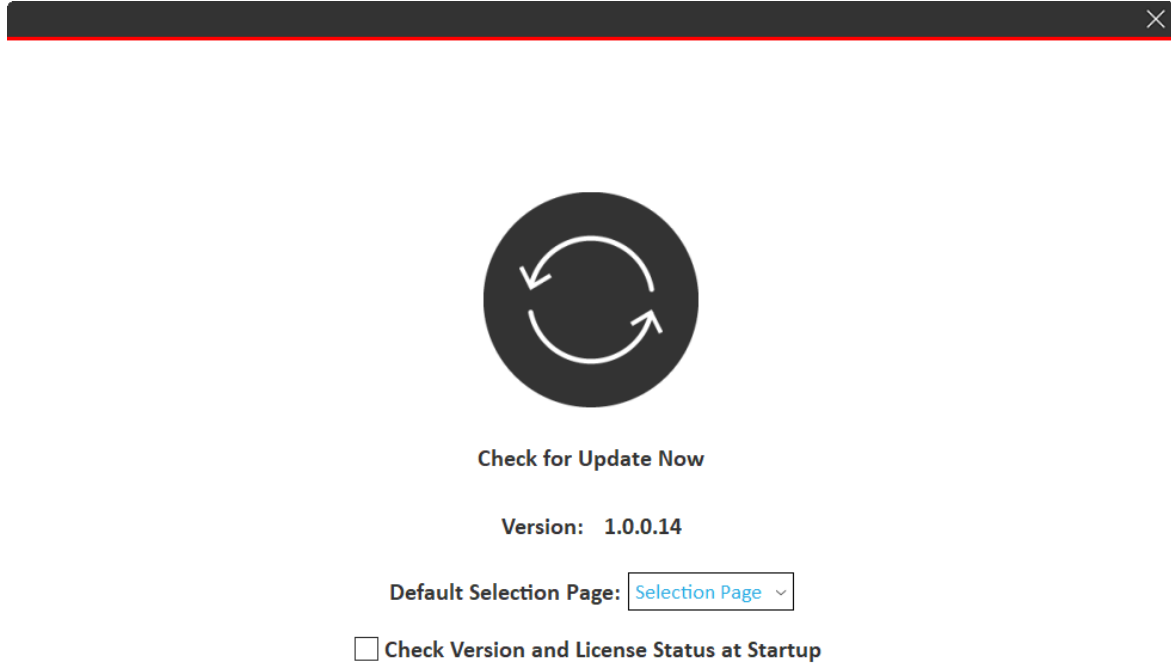
 Color Space: AdobeRGB

 Gamma: 2.2

> Appendix

Software Update

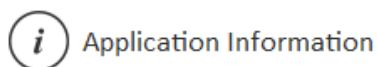
If a new software version is available, a pop up message will appear at the launch of Colorbration+ as shown below:



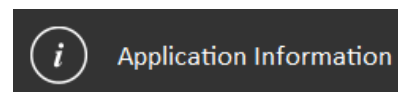
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Additionally, the user can check for updates by selecting **Application Information** in Basic Mode or Advanced Mode.

Basic Mode:



Advanced Mode:



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



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