

Samsung SMART Signage video wall compatibility			
	Color Expert Pro	Color Expert Pro Mobile (with PC)	Color Expert Pro Mobile (PC-less)
Compatible video wall	UHN-E, UMN-E, UHF-E, UMH-E, UDE-A, UDE-B, UHF5	UHN-E, UMN-E, UHF-E, UMH-E, UDE-A, UDE-B, UHF5	2019 video wall models

Calibrator compatibility	
	Model
Konica Minolta	CA210
	CA310
Xrite	i1 Display Pro (i1D3)
	Color Munki
Datacolor	Spyder 4

System requirements (compatible operating systems)	
Color Expert Pro	Windows 7 32bit/64bit, Windows 8 32bit/64bit, Windows 10 32bit/64bit A calibrator is required to use the Samsung Color Expert Pro software. Customers must purchase the calibrator separately. X-Rite i1 Display Pro is recommended.
Color Expert Pro <small>Mobile</small>	Samsung Galaxy phone only - Samsung Galaxy S7/S8/S9, Galaxy Note8 - Android 7.0 (Nougat)

About Samsung

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions. For the latest news, please visit the Samsung Newsroom at <http://news.samsung.com>.

For more information

For more information about Color Expert Pro, visit www.samsung.com/business or www.samsung.com/displaysolutions.

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SAMSUNG



Color Expert Pro

Industry-Leading Calibration Technology for Large-Scale Video Walls

Samsung leads the professional display industry in large part because it provides high-quality, uniform picture quality, even across multiple displays. The key to that has been its Color Expert calibration technology. Now, Samsung is taking picture quality to the next level with the newly launched Color Expert Pro.

Color Expert Pro is a specialized calibration solution for Samsung's video wall displays, allowing users to fine-tune color, brightness and other picture elements for the best possible viewing experience. The technology is also available in a mobile version, Color Expert Pro Mobile.

With the launch of these two new powerful calibration tools, Samsung continues to provide the best possible viewing experience for its customers.

Highlights

Color Expert Pro

- Smoother and clearer color gradation with embedded ACM IC
- Full, accurate calibration for brilliant picture quality
- Easy installation and usability by auto ID & intuitive UI

Color Expert Pro Mobile

- Easy usability by intuitive mobile app UI
- Quick, convenient and cost-effective calibration
- Flexible user calibration after video wall installation

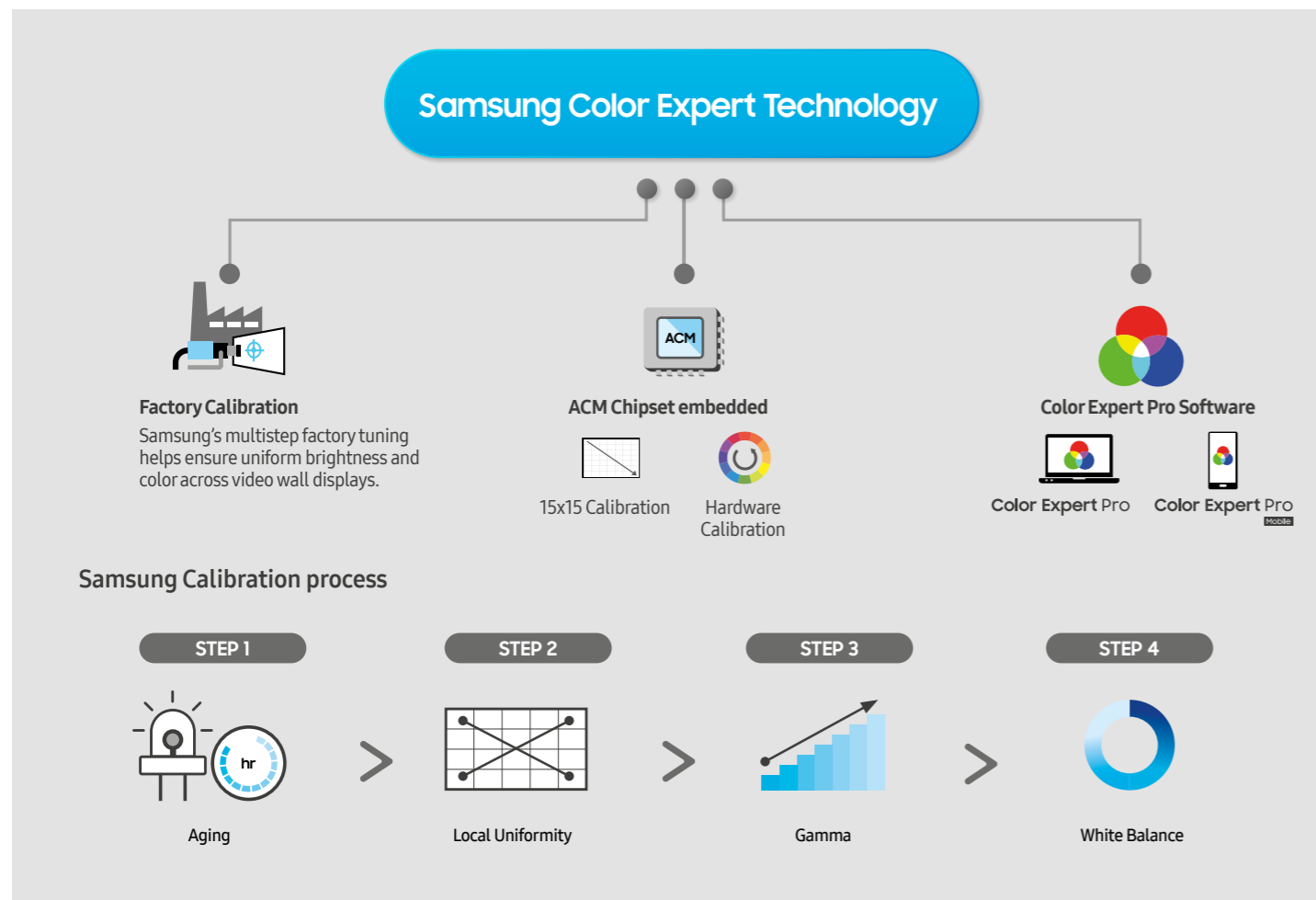
SAMSUNG

Why is calibration important?

An immersive viewing experience is an essential part of a successful business environment. However, because a video wall is composed of individual displays, units may vary in luminescence, brightness, color and other attributes, giving viewers a poor viewing experience and a negative impression of the business. By accurately calibrating all displays in the video wall, users get a uniform picture for the optimal viewing experience.

What is Color Expert Pro?

Samsung's Color Expert Pro technology is a cutting-edge solution that allows users to ensure vibrant, uniform picture quality across their displays – even after installation. The technology is the last step in the rigorous three-part approach Samsung takes to make sure that all its displays have the highest picture quality. First, Samsung tunes displays to the highest-performing uniform brightness and color in the factory. Next, ACM IC is embedded to enable more delicate and accurate calibration than conventional solutions. Lastly, Color Expert Pro allows users to more finely tune color and other attributes after factory calibration and installation for an even better performance.



The newly launched Color Expert Pro and Color Expert Pro Mobile give users two versatile tools so they can use what best suits their needs. Color Expert Pro is based on PC software and allows for complete, detailed and accurate calibration of Samsung displays. Color Expert Pro Mobile is a mobile application that allows for rapid and convenient calibration changes on-the-go. With both versions of this powerful software, customers can easily customize video walls for specific business needs.

Color Expert Pro

PC software, a complete, detailed and accurate calibration.

Color Expert Pro Mobile

Mobile application, rapid, convenient calibration on-the-go.

Color Expert Pro

Color Expert Pro is a software application that allows users to fine-tune the calibration of their Samsung displays to provide an optimal viewing experience for its audience.

Color Expert Pro uses advanced technology to align the display specification for all panels to uniform conditions through a three-part approach:

- 1. Smoother and clearer color gradation with embedded ACM IC:** The Samsung Advanced Color Management (ACM) 16-bit internal chipset produces accurate color with high local uniformity, processing images and color at the highest performance available in the video wall display market.
- 2. Full calibration for brilliant picture quality:** Color Expert Pro software enables gamma calibration, white balance and local uniformity to be finely tuned, which enhances video walls for any environment.
- 3. Easy installation and usability by auto ID & intuitive UI:** Color Expert Pro enables easy setup with support for automatic identification and connectivity - more streamlined than conventional solutions that require a complex, multi-step installation procedure.

Which solution fits your needs?

Color Expert Pro	<ul style="list-style-type: none"> PC software using calibrator Calibration with ACM chipset 	Precise calibration, customized setting	White balance / Gamma correction / Local uniformity	Calibrate one by one and connect up to 15 x 15 with daisy chain loop out	6min
	Technology type	Benefits	Calibration feature	How to calibrate	Calibration duration* (2x2 sets)
Color Expert Pro Mobile	<ul style="list-style-type: none"> Mobile application through wireless sensor Use embedded camera as calibrator 	Quick & easy, cost saving	White balance	Calibrate 5 x 5 sets at once and extend to bigger size by overlapping calibration area	1min

*White balance calibration only

Color Expert Pro Mobile

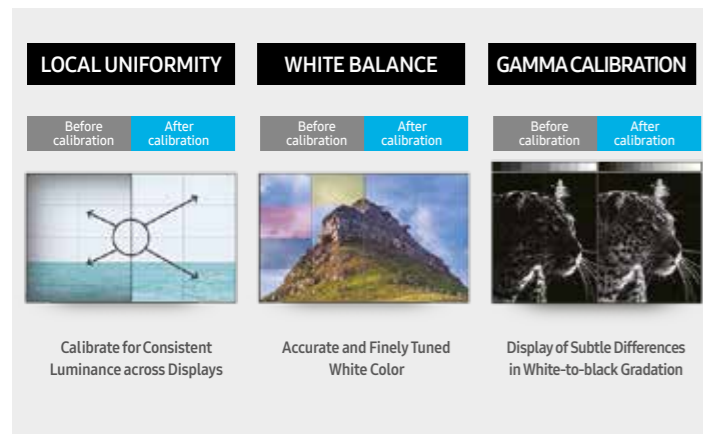
In today's rapid-paced marketplace, businesses need to move quickly to keep up. Samsung's Color Expert Pro Mobile application allows users to easily fine-tune their video walls on-the-go. The app enables simple, quick and cost-effective calibration without costly equipment or engineers - even after installation.

- 1. User-friendly with intuitive mobile app UI:** Users can simply download the mobile app and create custom configurations with the app's intuitive, user-friendly UI - no training required.
- 2. Quick, convenient and cost-effective calibration:** Color Expert Pro Mobile takes advantage of the smartphone camera to quickly and easily calibrate video walls - dramatically faster than one-by-one calibration methods. This highly cost-effective solution can address as many as 25 sets (5x5 sets) of displays.
- 3. Flexible calibration after the installation:** Users can conveniently adjust video wall picture quality whenever necessary, without disassembling large-scale video walls.



Accurate color, high local uniformity

With Samsung's embedded Advanced Color Management (ACM) 16-bit internal chipset, video walls display smooth and clear color gradation across all displays. Color Expert Pro calibrates the ACM Chipset to produce accurate, uniform color at the highest performance available in the market.



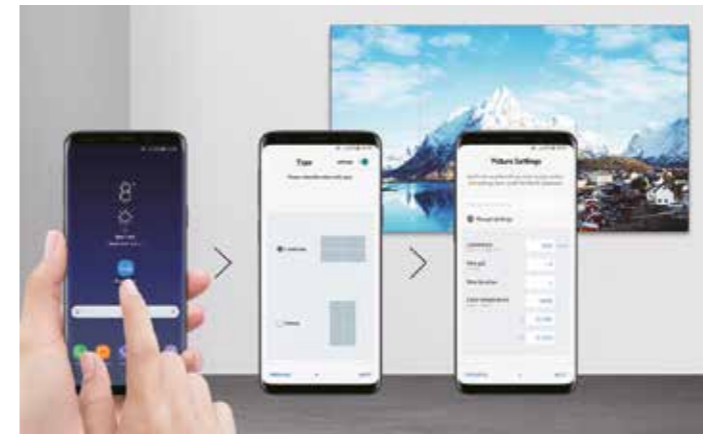
Enhanced picture quality for any setting

Color Expert Pro delivers stunning before-and-after results. White balancing options enable accurate white color. Users can calibrate for consistent luminance and color uniformity across displays. Gamma and gray scale calibration brings out subtleties, detail and depth in white-to-black gradation.



Simple setup, installation and usability

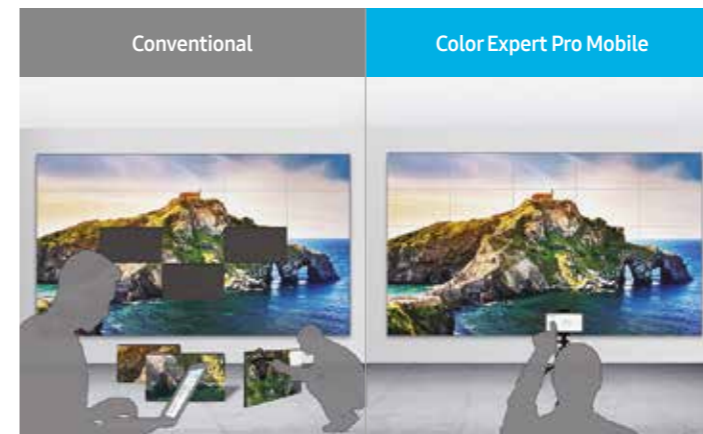
Color Expert Pro makes setup easy, with support for automatic identification and connectivity. More advanced than conventional solutions that require a complex, multi-step installation procedure, Color Expert Pro's intuitive user interface and straightforward connections make installation possible in a snap.



Intuitive mobile app for easy adjustment

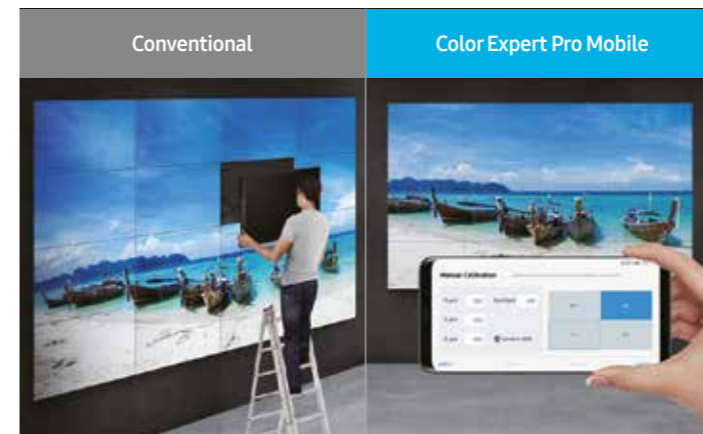
Thanks to an intuitive, user-friendly interface, Color Expert Pro Mobile allows users to easily calibrate large-scale video walls with no special training. Users can just simply download this powerful mobile app and begin calibrating and finely tuning video walls for stunning results.

*Color Expert Pro Mobile supports white balance calibration only. Local uniformity and gamma and gray scale is not supported. Color Expert Pro supports full calibration



Convenient and cost-effective refinement

Color Expert Pro Mobile uses the smartphone camera to quickly and easily calibrate without a professional calibrator physically connected to the video wall. This highly cost-effective solution can calibrate up to 25 sets(5x5) of displays at once - dramatically faster than one-by-one calibration methods.

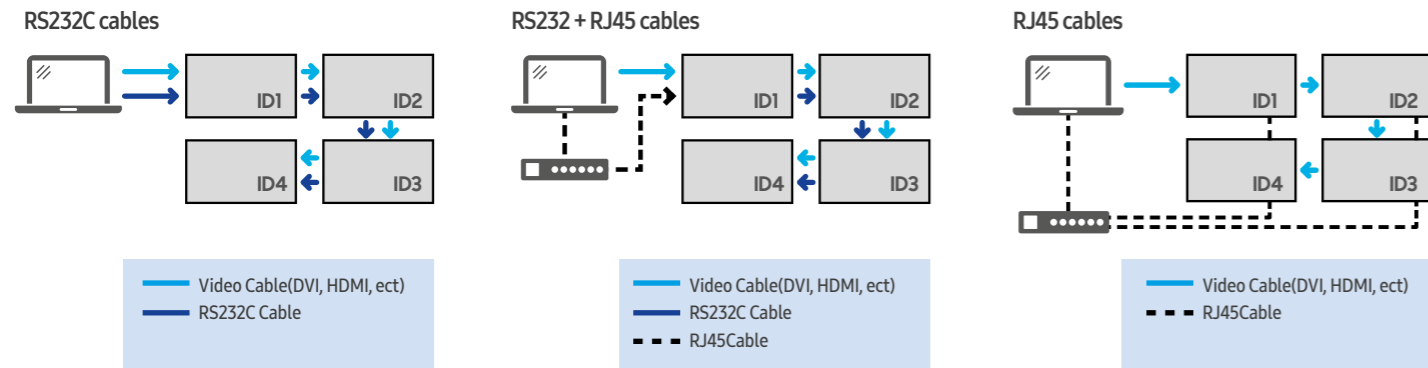


Flexible post-installation calibration

In the past, fine tuning large-scale video wall displays after they've been installed required extensive time, effort and difficulty. Now, Color Expert Pro Mobile lets users conveniently adjust and calibrate the picture quality whenever necessary, without disassembling large-scale video walls.

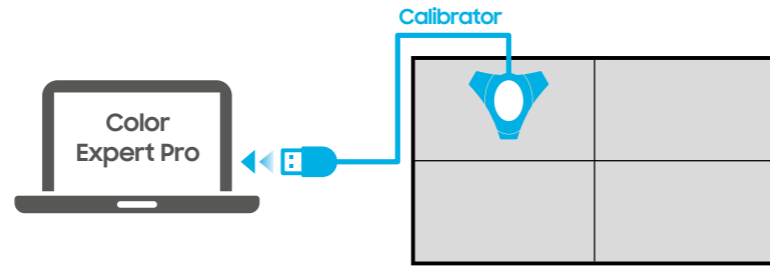
Step 1.

Connect the video wall to the computer using cables.



Step 2.

Connect the calibrator to a USB port on the computer where Color Expert Pro will be run.



Step 3.

Install Color Expert Pro on the computer.

- Color Expert Pro download: connect <http://v3.samsungsbn.com> ▶ SLM ▶ Display solution Download ▶ search "Color Expert Pro"
- For the system authorization, please contact Samsung account manager.



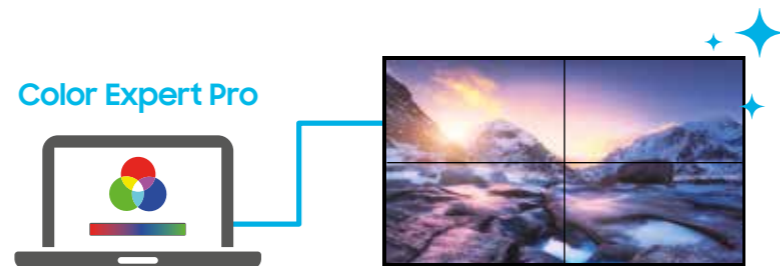
Step 4.

Update the firmware on the video walls to the latest version.



Step 5.

Calibrate the screen colors using Color Expert Pro.

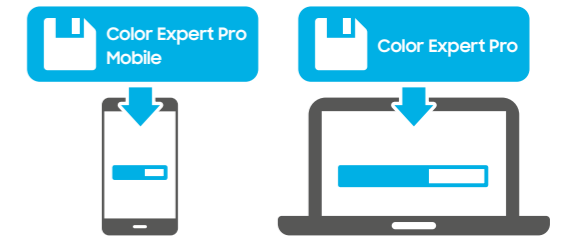


▶ Color Expert Pro Mobile (with PC)

Step 1.

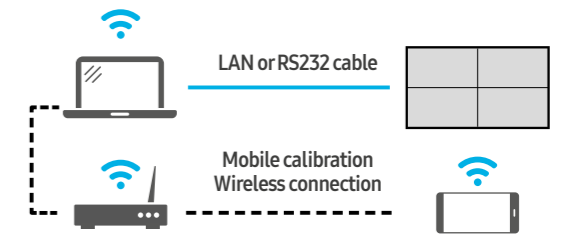
Install the apk file of Color Expert Pro and Color Expert Pro Mobile from SLM page on the laptop and mobile phone.

- Color Expert Pro download: connect <http://v3.samsungsbn.com> ▶ SLM ▶ Display solution Download ▶ search "Color Expert Pro"
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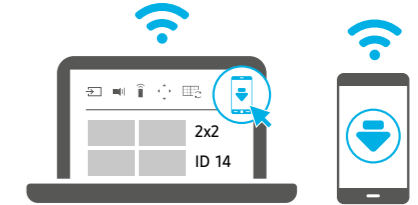
Step 2.

- Connect the video walls and the laptop via RS232 or RJ45 cables.
- Connect the laptop and access point (AP).
- Connect the mobile phone and access point (AP).



Step 3.

Click the mobile icon in Color Expert Pro on laptop and connect mobile phone and laptop.



Step 4.

Set IP address of the laptop on the mobile phone to complete the connection.

* This version is temporary solution until video walls are capable of Wi-Fi communication in 2019.

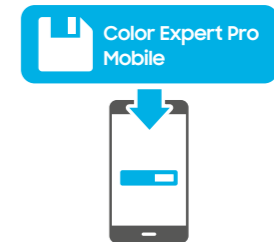


▶ Color Expert Pro Mobile (PC-less)

Step 1.

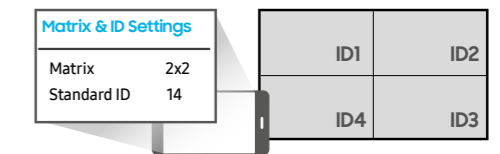
Install the apk file of Color Expert Pro Mobile from SLM page on the mobile phone.

- Color Expert Pro download: connect <http://v3.samsungsbn.com> ▶ SLM ▶ Display solution Download ▶ search "Color Expert Pro"
- For the system authorization, please contact Samsung account manager.



Step 2.

Connect the video walls and the mobile phone.



Step 3.

Find and connect the video wall to be calibrated on mobile app.



* Color Expert Pro Mobile (PC-less) system configuration will be confirmed in 1Q 2019.