About Samsung Electronics Co., Ltd.

Samsung Electronics Co., Ltd. inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, cameras, digital appliances, medical equipment, network systems, and semiconductor and LED solutions. For the latest news, please visit the Samsung Newsroom at news.samsung.com.

For more information

For more information about Samsung Display Solutions visit www.samsung.com/business or www.samsung.com/displaysolutions

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2020-05
Keep the control room up to date with the best-in-class visual display technology

For many years, control rooms have acted as critical information hubs for various organizations around the globe. A crucial element of any properly-functioning control room is the latest in display technology. In order to monitor multiple information streams efficiently, decision makers must be equipped with clear information, and display technology that features the industry's best picture quality, reliability, and operational efficiency can make all the difference.

**Image uniformity and picture quality**
From large video walls, to individual workstations, control room displays must be able to show even the most minute details to ensure nothing is missed. Samsung's control room display solutions feature cutting-edge picture quality with unmatched brightness, contrast, and stunning resolution to ensure leaders don't miss any important details.

**Reliability**
The highly sensitive nature of information in control rooms requires them to be operational around the clock. Working in this environment, you simply cannot afford any downtime. Samsung displays are built for 24/7 use, maintaining both picture quality and uniformity. They also feature power redundancy, protecting against any interruptions resulting from unexpected disruption in power availability.

**Operational excellency**
Samsung has developed a reputation as the very best in visual display technology, but that goes beyond technical specifications. Samsung displays also feature industry-leading operational excellency with easy installation and maintenance. The displays also feature low power consumption and a lifetime guarantee.
What Samsung offers

Samsung’s comprehensive line-up of professional displays are built for the control room. From large-scale LED signage and video walls visible to the entire room, to QLED 8K Signage that shows incredible details and even ultra-wide, high resolution monitors, teams will have the technology to get the job done.
The Wall

Unmatched image detail and contrast that's built to last

The Wall is the ultimate centerpiece of any control room, offering industry leading picture quality and long-lasting quality to meet the demands of any control room environment.

Pristine black & color expression

The Wall supports every control room builds its display walls as intended. The fusion of an exceptionally black base with specialized Black Seal technology, delivers deep black levels for intense contrast and immaculate detail. Ultra Chroma technology produces vibrant and natural colors.

The Wall is not just a screen but provides a total display solution for control rooms. Requiring nothing more than a mobile phone and a Wi-Fi connection, calibration can be done instantly. Front access to critical signage components ensures a tidy activation free of catwalk space.

The Wall features multiple operational safeguards intended to minimize screen failures including off board hot swap power supply and power/signal redundancy. These redundant systems help to ensure content interruptions are reduced as much as possible, keeping your message front and center.

IWJ series

Pin-sharp clarity in every scene

Boasting the industry’s best picture quality engine, The Wall utilizes advanced HDR picture refinement technologies – LED HDR, HDR10+ support and Multi-link HDR - rendering optimum peak brightness and contrast in every single scene for precise, true-to-life imagery.

Total display solution

Operational safeguards

*Off-board power supply is optional and available from 3Q, 2020
Large-scale indoor LED display options from Samsung provide a perfect view of critical information and guaranteed performance to keep the control room operational at all times.

**Taking a panoramic view of the situation**

IFR series, a larger and lighter version compared to conventional cabinets, simplifies installation. The other option is about a quarter of that size, allowing for displays of varying dimensions.

**Best-in-class LED picture quality**

Samsung’s IF series ensures optimal and uninterrupted picture quality for precise information in control room environments. IF series provides best-in-class picture quality for LED, producing images with exact color expression, reduced noise and a full range of grays and blacks.

**Clearly refined visuals**

Utilizing a proprietary algorithm, LED HDR creates true-to-life images, turning any content into HDR-level quality without requiring any special metadata. The IF series supports HDR10+ which optimizes brightness and contrast ratio scene-by-scene to ensure each frame looks exactly as intended.

**Seamless, smooth content playback**

Frame rate synchronization guarantees smooth content playback without screen tearing when multiple S-boxes are connected—even when combining or splitting content across cabinets. In addition, requiring nothing more than a mobile phone and a Wi-Fi connection, calibration can be done instantly.

**Easy and efficient installation***

To provide more flexibility in design, IFR series features two cabinet types. One, a larger and lighter version compared to conventional cabinets. The other, about a quarter of that size, to create displays of varying dimensions.

* This feature is only available on IFR series.
Ultra HD
1080P
Full HD
DP Daisy Chain
HDMI DP
4K

Video wall

Immersive, uninterrupted viewing around the clock

A video wall is often at the heart of a control room, providing clear visibility for efficient monitoring and maintenance. Samsung’s video walls offer optimal brightness and long-lasting performance in any environment.

Immersive viewing experience

Extreme narrow bezels enables content to be delivered as one seamless image, minimizing the visual distraction. A non-glare panel evenly distributes light throughout the screen, eliminating glare while maintaining content vibrancy and accuracy.

Screen uniformity all the time

Samsung’s complete and comprehensive calibration tunes video wall displays to the optimal uniform brightness and color across multiple displays to fit any control room requirements. Every video wall display presents fine-tuned picture quality whether used as a single display or as multiple screens.

Long-term performance

Samsung’s video wall displays allows control rooms to deliver clear information 24/7. The panel prevents screen darkening, ensuring long-term delivery of brilliant content. EMC Class B compliant displays and ISTA-certified packaging keep both environment and delivery safe.

Efficient and reliable operation

With daisy chain using DP1.2 and HDMI ports, Samsung’s video walls can project UHD content across multiple screens up to 5x5 configuration. The UHD Signage Player Box combines information processing and content management tools into a single platform, for added operational simplicity.

VHR-R / UHF-E / UHN-E / UMH-E / UMN-E series

*This image shows mixed installation of Samsung’s video wall, Crystal UHD Signage and business monitors at ISE 2019.

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Calibration solution

Powerful calibration tools to optimize picture quality

Samsung's leading calibration tools – Color Expert LED and Color Expert Pro – offer full criteria on color calibration. Mobile calibration also offers a simplified tuning process and uniformity down to the pixel-level, meaning visuals are presented exactly as intended.

Color Expert LED

Pixel-level tuning

Samsung's Color Expert LED provides pixel-level uniformity, bringing more precise and refined picture quality to life, when compared with module-level uniformity. Using professional calibration devices, the uniformity is accurate and flawless, enhancing even the subtlest details.

Automatic calibration

Using just a mobile phone camera and Wi-Fi network, calibration can be done without the need for additional, expensive professional devices. Color Expert LED Mobile calibrates automatically based on a target area ensuring it does not miss any subtle differences in color and brightness.

Mobile calibration
Quick & easy full screen calibration
Intuitive UI Wireless

Convenient 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.

Enhanced picture quality

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.

Manual calibration
Human eye based adjustment
Auto calibration
Hassle-free uniformity calibration via mobile

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**QLED 8K Signage**

**Capturing all the subtle differences**

Samsung’s QLED 8K Signage delivers extremely accurate imagery ensuring control room staff are seeing all the details they need to on one, uniform screen, in the highest resolution.

**Incredible 8K resolution**

Samsung QLED 8K Signage offers super high resolution with more than 33 million pixels, 4 times higher than 4K UHD content and 16 times higher than FHD. With AI-powered upscaling, control room staff are able to recognize precise detail even in low resolution.

**Purest color accuracy to-date**

Samsung’s QLED technology ensures the delivery of 100% color volume, based on over a billion colors. Together with a peak brightness of 4,000 nits and 8K resolution, scenes appear more dynamic and impactful, bringing every detail to life in total clarity.

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**QPR-8K series**

![Image](image)

**Transparent technology**

- 8K resolution
- 8K AI upscaling
- 8K media player embedded
- 8K content playback through high HDR

**Real 4K resolution**

Samsung’s UHD Signage showcases intricate details thanks to 4K UHD resolution. Samsung's cutting-edge intelligent UHD upscal- ing technology performs edge restoration and noise reduction to deliver UHD-level picture quality for control room’s use, even with lower resolution content.

**High visibility at all times**

Samsung’s UHD Signage delivers clear information 24/7, ensuring critical information is always visible. Using 10-bit processing, the displays are able to showcase a wider spectrum of colors — up to a billion different shades — capturing subtle differences for flawless color expression.

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**Crystal UHD Signage**

**Clear delivery of critical information**

Samsung’s Crystal UHD Signage delivers crystal clear picture, keeping control room staffs from missing any detailed information in critical scenarios.

**QHR / QMR / QMN / QBR series**

**Real 4K resolution**

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**QHR—8K series**

![Image](image)

**Transparent technology**

- 8K resolution
- 8K AI upscaling
- 8K media player embedded
- 8K content playback through high HDR

**QLED technology**

- Purest color accuracy to-date
- Capturing all the subtle differences
Business monitor

Optimal productivity during extended work hours

Monitors are an important part of any control room. With ultra-wide screen and high resolution, Samsung’s monitors can be used for extended periods of time, ensuring accurate and efficient work from all team members.

Ultra-wide: CRG9 / CJ89 / CJ79 series

A better way to multi-task

The ultra-wide screen supports a number of open windows without scroll or zoom, while eliminating the clutter and inconveniences of the traditional dual monitor setups. Multi-tasking features – PIP, PBP and Easy Setting Box – allows staffs to work on more documents and applications simultaneously.

Ultimate connectivity

Samsung’s ultra-wide monitors let staffs multitask more efficiently, saving their desk space. USB Type-C ports transmit both power and data. The built-in KVM switch lets them control two computers connected to the monitor using just one keyboard and mouse.

High resolution: TU87F / T85F / UR55 / UR59C series

Detailed clarity

Samsung’s UHD monitors display crisp, clear images and text with much greater sharpness. So the staffs can enjoy higher readability with reduced eye strain in control room environments that require long work hours.

Multi-productive displays

PBP transforms a single monitor to a dual-view monitor by displaying content from two sources side by side on one screen. With PIP, staffs can see and organize multiple apps and programs exactly how they want to.
Specifications

LED Signage

<table>
<thead>
<tr>
<th>Project</th>
<th>Pixel pitch</th>
<th>Diode type</th>
<th>Brightness</th>
<th>Contrast ratio</th>
<th>Color temperature</th>
<th>System requirement</th>
<th>Display compatibility</th>
<th>Calibration feature</th>
<th>Weight (per cabinet)</th>
<th>Service**</th>
<th>IF rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Wall (IWJ)</td>
<td>P0.8, P1.2, P1.6</td>
<td>Flip-chip RGB LED</td>
<td>1,400 nit (P1.6), 1,600 nit (P2.0), 1,800 nit (P2.5)</td>
<td>4,000:1</td>
<td>5,400:1</td>
<td>Windows 7 32bit/64bit, Windows 8 32bit/64bit, Windows 10 32bit/64bit</td>
<td>VHR-R, IFR-F, UHN-E, UHF-E, UMN-E</td>
<td>304 x 606 x 28.4 mm (P1.2), 304 x 606 x 30.5 mm (P1.6), 304 x 606 x 32.7 mm (P2.0)</td>
<td>UHR (4K): 2.5 kg, VHR (2K): 1.8 kg</td>
<td>Front and Rear</td>
<td>IP60</td>
</tr>
<tr>
<td>IFJ</td>
<td>P1.2</td>
<td>Surface Mount (SMD)</td>
<td>1,800 nit (P2.5), 2,000 nit (P3.0), 2,200 nit (P4.0)</td>
<td>4,000:1</td>
<td>5,400:1</td>
<td>Windows 7 32bit/64bit, Windows 8 32bit/64bit, Windows 10 32bit/64bit</td>
<td>VHR-R, IFR-F, UHN-E, UHF-E, UMN-E</td>
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<td>Front and Rear</td>
<td>IP60</td>
</tr>
</tbody>
</table>

Video wall

<table>
<thead>
<tr>
<th>Project</th>
<th>Screen size</th>
<th>Resolution</th>
<th>Brightness</th>
<th>Contrast ratio</th>
<th>Operation hour</th>
<th>B-to-B</th>
<th>Basewidth</th>
<th>Connectivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>VHS-i</td>
<td>15&quot;</td>
<td>1920 x 1080</td>
<td>500 nit</td>
<td>4,000:1</td>
<td>30/7</td>
<td>0.8 mm</td>
<td>14.6 mm</td>
<td>In-Wall (IFL, IFL-F), HDMI 2.0, HDCP 2.2, Stereo Mini Jack, DVI-D, DP 1.2, HDMI 2.0, USB Type-C, USB3.0 (2), RJ45 (2)</td>
</tr>
<tr>
<td>UM7-E/F/UM9-E</td>
<td>85” (IFL), 125” (IFL-F)</td>
<td>1920 x 1080</td>
<td>500 nit</td>
<td>4,000:1</td>
<td>30/7</td>
<td>13.5 mm</td>
<td>In-Box (SVS, SVS-F, DVI-D, DP 1.2, HDMI 2.0, USB Type-C, USB3.0)</td>
<td></td>
</tr>
<tr>
<td>UM9-E/UM9-F</td>
<td>105” (UMH-E), 127” (UMN-E)</td>
<td>1920 x 1080</td>
<td>500 nit</td>
<td>4,000:1</td>
<td>30/7</td>
<td>12.5 mm</td>
<td>In-Box (SVS, SVS-F, DVI-D, DP 1.2, HDMI 2.0, USB Type-C, USB3.0)</td>
<td></td>
</tr>
</tbody>
</table>

Color Expert solution

<table>
<thead>
<tr>
<th>Project</th>
<th>Technology type</th>
<th>System requirement</th>
<th>Display compatibility</th>
<th>Calibration feature</th>
<th>Weight (per cabinet)</th>
<th>Service**</th>
<th>IF rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Expert LED Mobile</td>
<td>Mobile application calibration with mobile screens</td>
<td>Samsung Galaxy phone only</td>
<td>VHR (4K): 2.5 kg, VHR (2K): 1.8 kg</td>
<td>White balance, Gamma corrected, Local uniformity</td>
<td>16/7</td>
<td>Non-glare</td>
<td>IP65</td>
</tr>
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<td>White balance, Gamma corrected, Local uniformity</td>
<td>16/7</td>
<td>Non-glare</td>
<td>IP65</td>
</tr>
</tbody>
</table>

Business monitor

<table>
<thead>
<tr>
<th>Type</th>
<th>Project</th>
<th>Screen size</th>
<th>Flat/Curved</th>
<th>Aspect ratio</th>
<th>Resolution</th>
<th>Brightness (Typ/Peak)</th>
<th>Refresh rate</th>
<th>Connectivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultra-wide</td>
<td>C205P</td>
<td>20”</td>
<td>Curved (UMW)</td>
<td>16:9</td>
<td>1,920 x 1080</td>
<td>300 nit</td>
<td>108Hz</td>
<td>HDMI 2.0, DP 1.4, USB Type-C</td>
</tr>
<tr>
<td>C209</td>
<td>20”</td>
<td>Curved (UMW)</td>
<td>16:9</td>
<td>1,920 x 1080</td>
<td>300 nit</td>
<td>108Hz</td>
<td>HDMI 2.0, DP 1.4, USB Type-C</td>
<td></td>
</tr>
<tr>
<td>C209P</td>
<td>20”</td>
<td>Curved (UMW)</td>
<td>16:9</td>
<td>1,920 x 1080</td>
<td>300 nit</td>
<td>108Hz</td>
<td>HDMI 2.0, DP 1.4, USB Type-C</td>
<td></td>
</tr>
<tr>
<td>C279</td>
<td>30”</td>
<td>Curved (UMW)</td>
<td>16:9</td>
<td>1,920 x 1080</td>
<td>300 nit</td>
<td>108Hz</td>
<td>HDMI 2.0, DP 1.4, USB Type-C</td>
<td></td>
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<tr>
<td>TU27F</td>
<td>27”</td>
<td>Flat</td>
<td>16:9</td>
<td>1,920 x 1080</td>
<td>250 nit</td>
<td>40Hz</td>
<td>Thunderbolt 3, HDMI 2.0, DP 1.2, USB 3.0</td>
<td></td>
</tr>
<tr>
<td>T237F</td>
<td>23”</td>
<td>Flat</td>
<td>16:9</td>
<td>1,920 x 1080</td>
<td>250 nit</td>
<td>40Hz</td>
<td>Thunderbolt 3, HDMI 2.0, DP 1.2, USB 3.0</td>
<td></td>
</tr>
</tbody>
</table>

High resolution

<table>
<thead>
<tr>
<th>Project</th>
<th>Screen size</th>
<th>Resolution</th>
<th>Brightness</th>
<th>Operation hour</th>
<th>Connectivty</th>
<th>SoC</th>
<th>S/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>UR01</td>
<td>28”</td>
<td>1920 x 1080</td>
<td>350 nit</td>
<td>3600/800</td>
<td>DP 2.1, HDMI 2.0, USB Type-C, USB3.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UR207/G</td>
<td>55”</td>
<td>Curved (UMH-E)</td>
<td>16:9</td>
<td>3840 x 2160</td>
<td>250 nit</td>
<td>40Hz</td>
<td>HDMI 2.0, DP 1.4, USB Type-C</td>
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QLED 8K Signage

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<tr>
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<th>Connectivty</th>
<th>SoC</th>
<th>S/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>UQ900C</td>
<td>49”</td>
<td>3840 x 2160</td>
<td>350 nit</td>
<td>24/7 Non-glare IP5X</td>
<td>8K</td>
<td>MagicINFO S6</td>
<td></td>
</tr>
<tr>
<td>UQ900C</td>
<td>55”</td>
<td>3840 x 2160</td>
<td>350 nit</td>
<td>24/7 Non-glare IP5X</td>
<td>8K</td>
<td>MagicINFO S6</td>
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<tr>
<td>UQ900C</td>
<td>65”</td>
<td>3840 x 2160</td>
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</tr>
<tr>
<td>UQ900C</td>
<td>75”</td>
<td>3840 x 2160</td>
<td>350 nit</td>
<td>24/7 Non-glare IP5X</td>
<td>8K</td>
<td>MagicINFO S6</td>
<td></td>
</tr>
</tbody>
</table>

Crystal UHD Signage