

SAMSUNG

**Immerse your audience in realistic,
seamless brilliance.**



IF Series SMART Direct-View LED Signage



A simple, premium way to engage indoor customers.

As businesses seek new strategies to enliven the indoor customer experience, high-resolution LED content continues to emerge as a go-to upgrade. And when you're looking for a premium upgrade, Samsung's IF Series displays deliver an optimal LED experience.

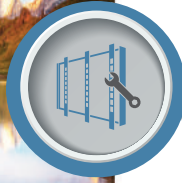
A comprehensive solution, the IF Series streamlines installation, presentation and management. With the IF Series, businesses can create and share powerful content with minimal hassle.

The IF Series is a Comprehensive Solution



LED Signage IF Series

A Differentiated
Visual Experience



Direct Mount™ Kit

Clean, Hassle-Free
Installation

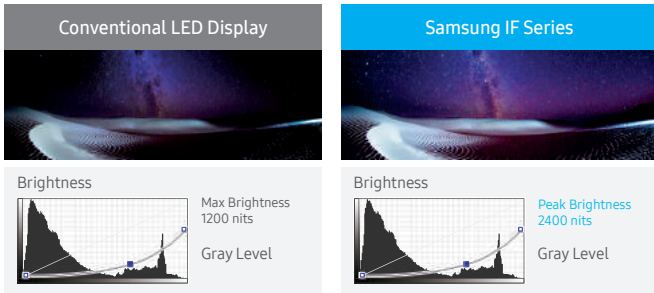


LED Signage Box (S-Box)

Streamlined
Content Management

Pioneering HDR-Powered Visual Innovation

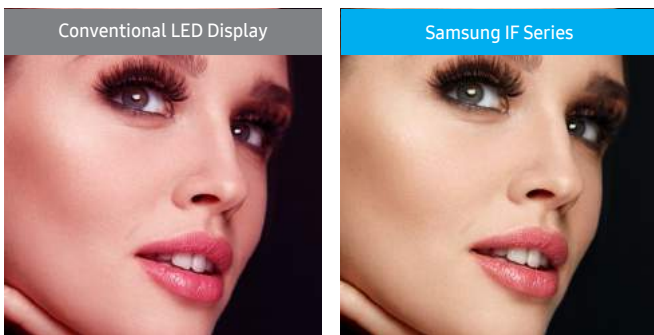
Samsung’s IF Series combines market-leading video processing tools with High Dynamic Range (HDR) picture refinement technology, to maximize brightness and fine-tune overall picture presentation. This unique combination delivers a cutting-edge, next-generation viewing experience in any environment.



In both conventional and advanced models, peak brightness and standard brightness can vary depending on composition and usage.

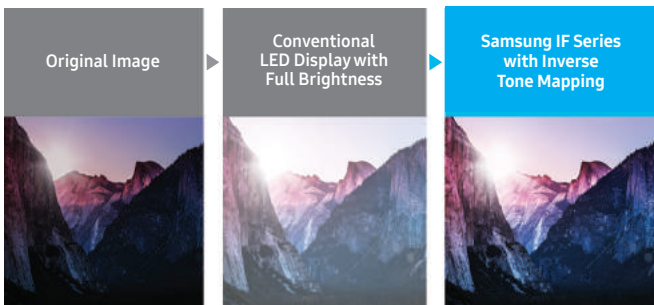
Optimize Content Brilliance

To ensure optimal LED performance, the IF Series employs dynamic peaking technology that minimizes potential interference from natural or ambient lighting. Dynamic peaking is able to display content at peak brightness levels nearly twice as high as standard LED signage. As a result, the IF Series delivers brilliant, consistent content that stands out even against white or dark backgrounds.



Showcase True-to-Life Imagery

As certain LED displays struggle to reflect wider RGB color gamuts, the ensuing oversaturation can give skin tones an unnatural reddish hue. Samsung’s IF Series displays maintain consistent gradation and produce natural skin tones through in-depth color management. Whether your content features subjects like models or broadcast personalities, or whether you’re projecting virtual conference participants, the IF Series will reproduce them with lifelike realism.



"Conventional LED Display" refers to a display that does not contain inverse tone mapping technology.

Elevate Contrast and Brightness

Samsung’s IF Series displays ensure long-term consistency and create a comfortable viewing experience through Scene Adaptive HDR technology. Samsung inverse tone mapping algorithms analyze and optimize gradation and brightness levels within individual content scenes while simultaneously eliminating shine.



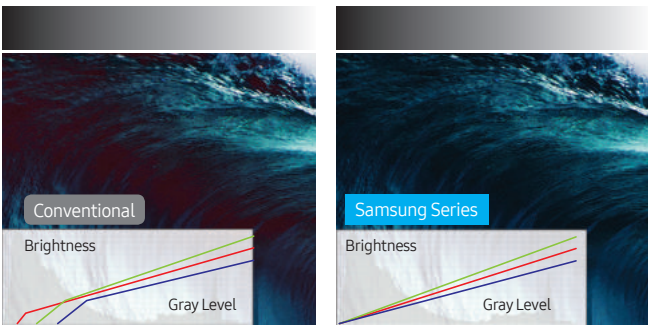
Exceptional, Realistic Picture Quality

With Samsung's IF Series displays, businesses can customize color presentation to fit their unique branding needs, while also avoiding common LED display visual inconsistencies. Real-time tuning ensures consistent color and clarity, and holds audiences' interest.



Customized Color Presentation

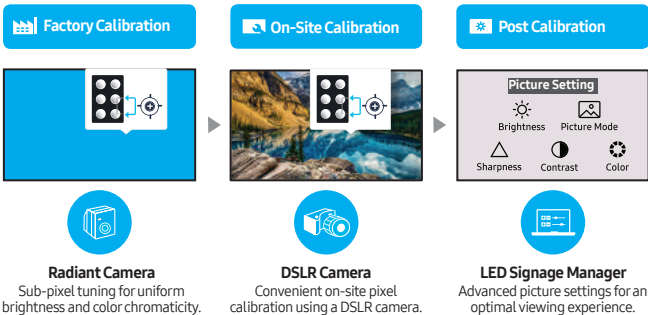
Detailed color management functionalities allow IF Series users to select, store and deploy the RGB color gamut shades that best fit their unique branding and content needs. It's an ideal feature for museums, corporate facilities, news studios and other environments who must quickly deploy consistent content at high clarity across multiple screens.



"Conventional" refers to a display that does not contain integrated low grayscale correction technology.

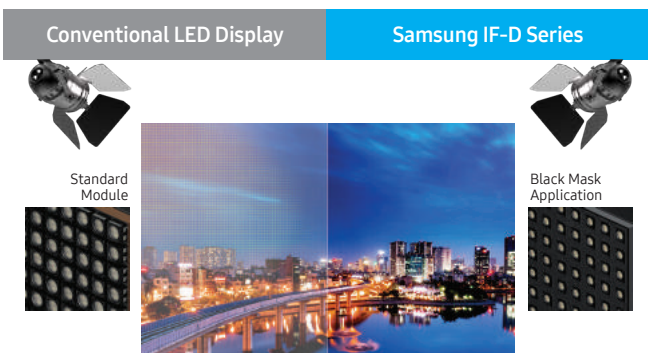
Reinforce Accurate Low Grayscale Color Expression

A unique grayscale management algorithm empowers the IF Series displays to deliver consistent red, green and blue hues without distortion, even in low grayscale settings. This color stability ensures optimal and uninterrupted picture quality in museums, galleries and other low-brightness indoor environments.



Fine-Tune Uniformity

Rigorous factory calibration fine-tunes all IF Series sub-pixels for uniform brightness and color chromaticity out of the box. For added consistency, the IF Series displays also leverage DSLR cameras (instead of radiant) for real-time sub-pixel calibration. When coupled with the integrated Samsung LED Signage Manager's advanced picture settings, this enhanced display treatment delivers precise results.



"Conventional LED Display" refers to a display that does not apply an external mask.

Mask Visual Inconsistencies

IF-D Series displays apply an external black mask sheet¹ to offset the lead framework exposure and glittering effect that often affects higher pixel-pitch LED offerings. For added consistency, each sheet adheres to the display via glue, instead of screws that pose an additional glittering risk. By closing visual gaps, these masks ensure the IF-D Series can continue to produce rich contrast, even in dynamic lighting environments.

¹Black mask module in IF040H-D and IF060H-D models only.

Seamless, Premium Display Installation

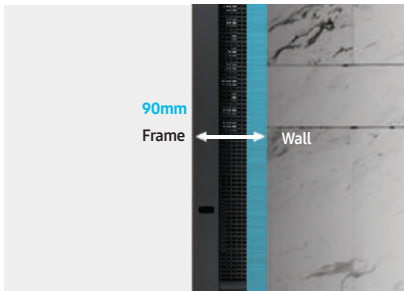
The IF Series' advanced design ensures a clean, gap-free installation in any business environment. Its compact size and compatible, hook-based Direct Mount™ Kit reduce setup time and allow users to quickly align and activate their displays.



Direct Mount™ Kit

Enjoy a Clean, Hassle-Free Installation

The IF Series' design produces a uniform installation across any setting or wall height by virtually eliminating gaps between frames or cabinets. A specialized Direct Mount™ Kit employs hooks to securely connect each individual screen. Users can slide and mount each screen to the frame in a simple motion, rather than being forced to resort to more laborious nail- or screw-driven processes.



ADA Compliant

Ensure a Compact and Compliant Activation

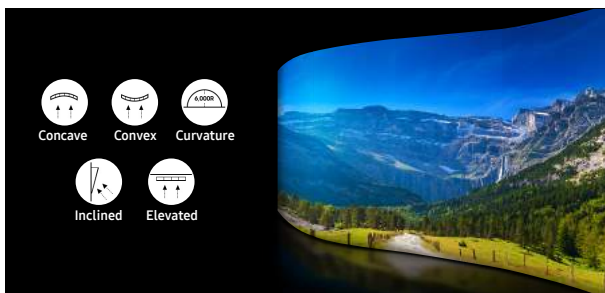
Regardless of the environment, the IF Series' sleek design ensures seamless adherence without requiring an extra wall or backdrop installation. Together, the frame and screen have a depth of just 90 mm¹, ensuring compliance with Americans with Disabilities Act (ADA) protrusion regulations.

¹IF012J total depth is 95mm.



Ease Maintenance through Full Front and Rear Access

For added flexibility, the IF Series displays offer full-front access to critical signage components. This expanded visibility enables sleek, clean installations free of catwalk space and ensures closer adherence to mounting surfaces. The IF Series displays also foster more convenient, quick-turn maintenance by making rear display components fully accessible without removal or disassembly.



Expand Display Configuration Possibilities

Businesses seeking an extra competitive edge can gain even more impact with an attention-demanding installation. The IF Series' advanced design includes both convex¹ and concave curved configurations (up to 6,000R in curvature), guaranteed to catch an audience's eyes. You can even install IF Series displays on an incline or adhere them to a ceiling². The engagement possibilities are no longer limited by your environment.

¹Convex designs on IF025H-D, IF040H-D and IF060H-D models only.

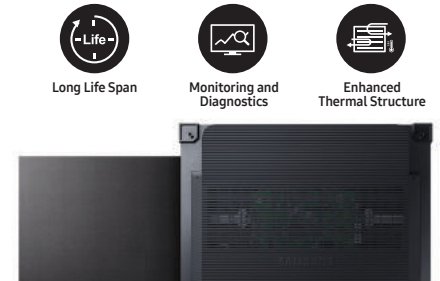
²Incline or ceiling installations possible with IF040H-D and IF060H-D models only.

High Reliability and Simplified Content Management

Samsung IF Series displays are designed for long, trouble-free hours of operation. And with Samsung’s LED Signage Box (S-Box), IF Series displays allow users to streamline content presentation and management. The S-Box’s extensive visibility empowers faster review and troubleshooting of potential challenges without disrupting performance. The result is a simple and trouble-free solution for your business.

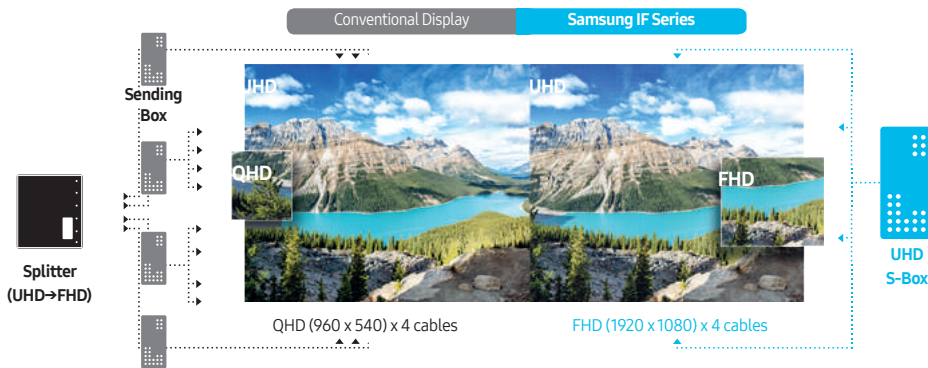
Durable, Long-Lasting Performance

Offering 24/7 operation and 100,000 hours of service life, Samsung’s IF Series Direct-View LED video wall displays are easy to use and maintain. An energy-efficient cabinet featuring advanced temperature and ventilation management ensures uninterrupted performance. A fanless design helps prolong the displays’ overall lifespan by minimizing the impact of dust and rigid particle exposure. And the integrated LED Signage Manager (LSM) helps users quickly identify common performance errors and avoid visual disruptions.

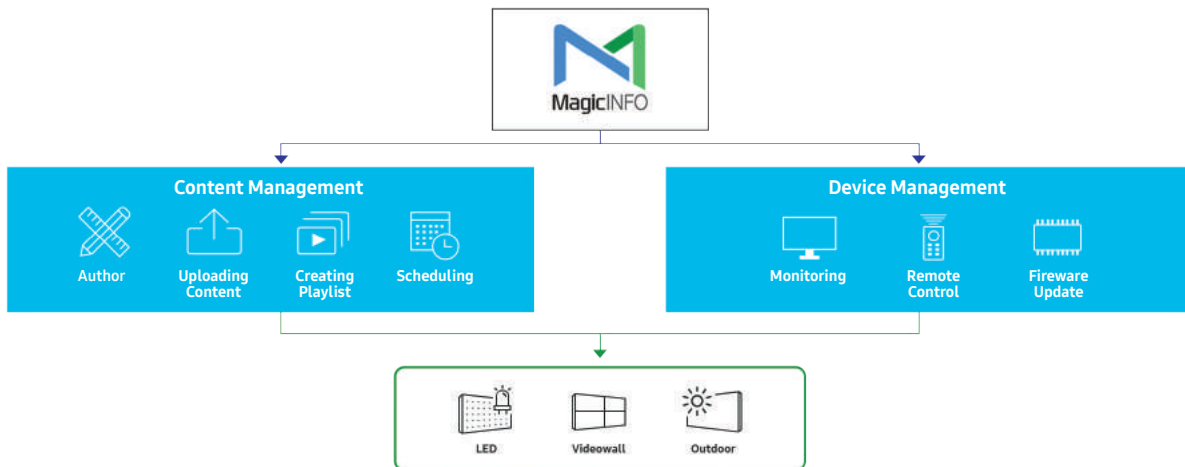


Streamline UHD Content Delivery

Samsung’s compatible S-Box consolidates the delivery of compelling content to a single, centralized device. The S-Box transmits UHD content across multiple IF Series displays without requiring external boxes or splitters, providing businesses faster and more cost-efficient operations.



Conventional Display settings vary depending on the companion sending box and type of content.



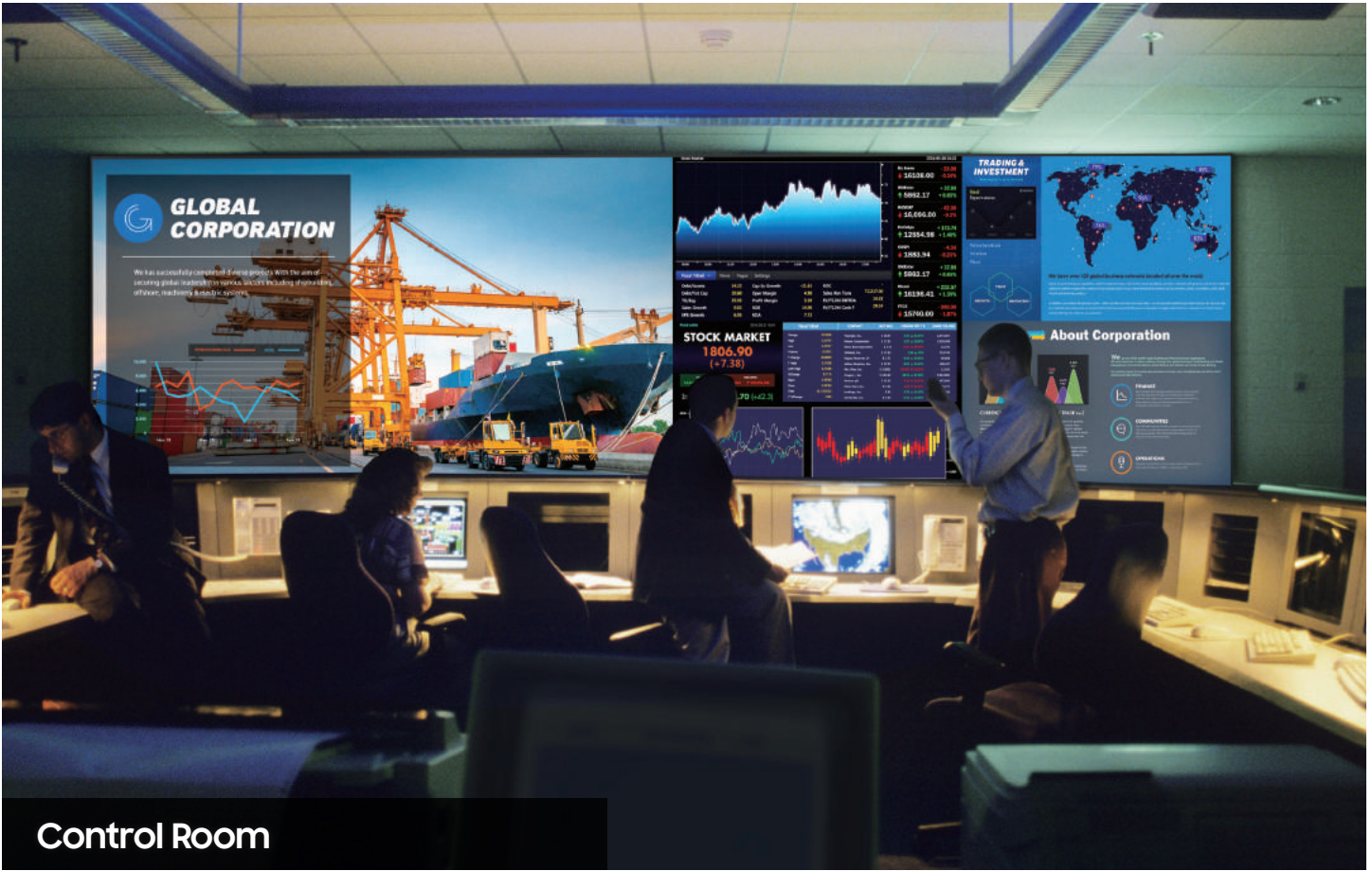
Centralized Content and Device Management

With the S-Box and Samsung’s MagicInfo content management platform, IF Series users can remotely program and modify their display network’s settings within a single source. MagicInfo enables users to create, schedule and deploy content across multiple displays, directly from users’ personal devices. It also lets users monitor and adjust display settings and troubleshoot potential performance issues from any location via remote access. Users can even remotely update firmware, to maximize performance and LED HDR picture settings for the best possible images.

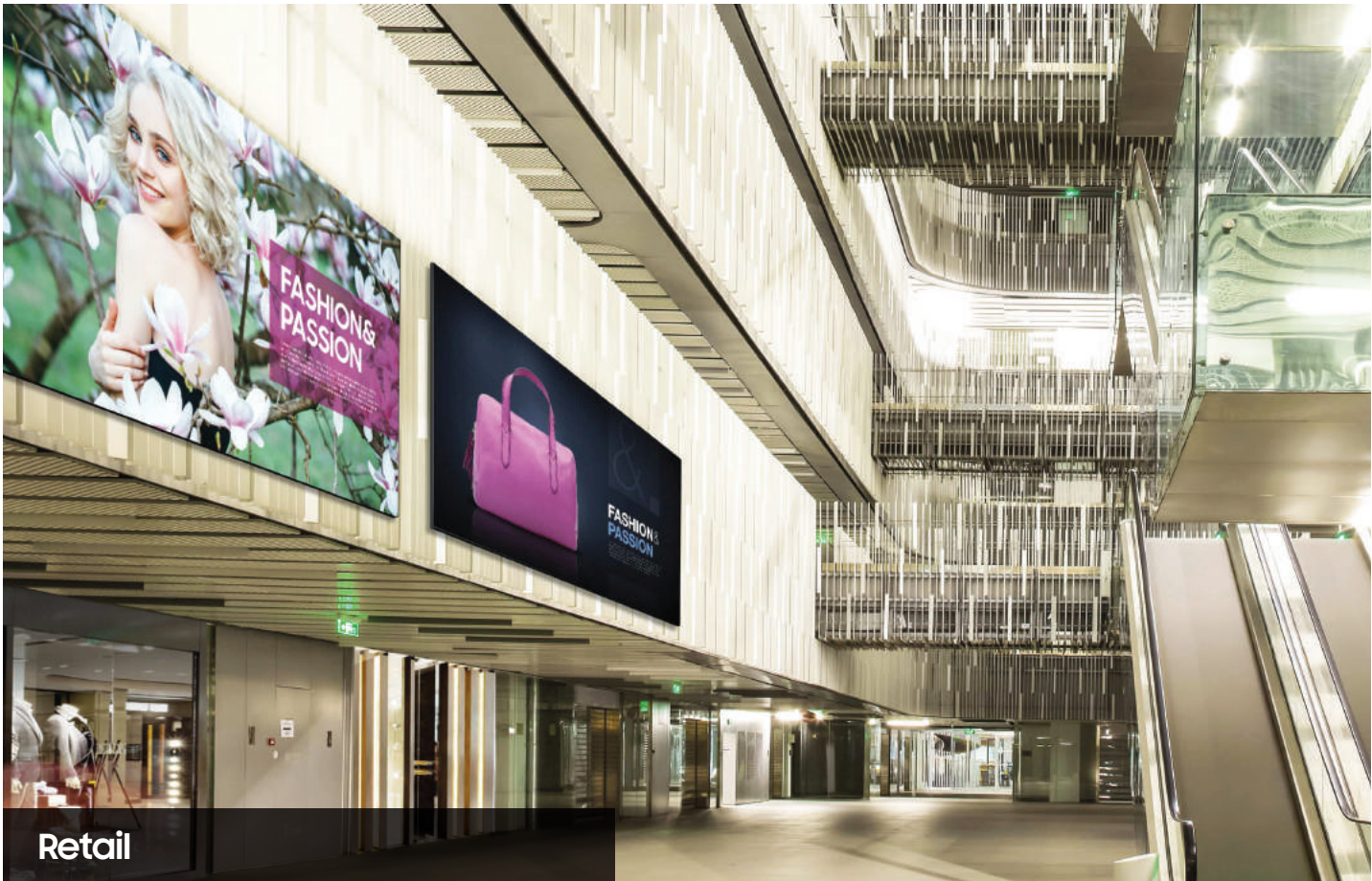
Create an Immersive Environment with Fine Pixel Pitch LED Displays



Meeting Room



Control Room



Retail



Corporate Lobbies



		IF012J	IF015H	IF020H	IF025H	IF025H-D	IF040H-D	IF060H-D
Physical Parameter	Pixel Pitch	1.26 mm	1.5 mm	2.0 mm	2.5 mm	2.5 mm	4.0 mm	6.0 mm
	Pixel Configuration	1 Red, 1 Green, 1 Blue	1 Red, 1 Green, 1 Blue	1 Red, 1 Green, 1 Blue	1 Red, 1 Green, 1 Blue	1 Red, 1 Green, 1 Blue	1 Red, 1 Green, 1 Blue	1 Red, 1 Green, 1 Blue
	Configuration (Lx H, per Cabinet)	640 x 360 Pixels	320 x 360 Pixels	240 x 270 Pixels	192 x 216 Pixels	192 x 288 Pixels	120 x 180 Pixels	80 x 120 Pixels
	Diode Type	Surface Mount Device (SMD)	Surface Mount Device (SMD)	Surface Mount Device (SMD)	Surface Mount Device (SMD)	Surface Mount Device (SMD)	Surface Mount Device (SMD)	Surface Mount Device (SMD)
	Dimensions (mm / inches, L x H x D, per Cabinet)	806.4 x 453.6 x 76.7mm / 31.7" x 17.9" x 3.0"	480 x 540 x 65mm / 18.9" x 21.3" x 2.6"	480 x 540 x 65mm / 18.9" x 21.3" x 2.6"	480 x 540 x 65mm / 18.9" x 21.3" x 2.6"	480 x 720 x 65mm / 18.9" x 28.3" x 2.6"	480 x 720 x 65mm / 18.9" x 28.3" x 2.6"	480 x 720 x 65mm / 18.9" x 28.3" x 2.6"
	Dimensions (inch, L x D, per Cabinet)	36.4" x 2.95"	28.5" x 2.56"	28.5" x 2.56"	28.5" x 2.56"	34" x 2.56"	34" x 2.56"	34" x 2.56"
	Weight (kg / lbs, per Cabinet)	11.8kg / 26.0 lbs	5.8kg / 12.8 lbs	5.8kg / 12.8 lbs	5.8kg / 12.8 lbs	7.4kg / 16.3 lbs	7.4kg / 16.3 lbs	7.4kg / 16.3 lbs
Optical Parameter	Brightness (Peak / Max) ¹	1,200 nits / 600 nits	1,600 nits / 800 nits	2,400 nits / 1,200 nits	2,400 nits / 1,200 nits	2,400 nits / 1,200 nits	1,700 nits / 1,200 nits	1,800 nits / 1,200 nits
	Contrast Ratio (Peak / Max) ¹	8,000:1 / 4,000:1	10,000:1 / 5,000:1	10,000:1 / 5,000:1	10,000:1 / 5,000:1	10,000:1 / 5,000:1	7,000:1 / 5,000:1	7,500:1 / 5,000:1
	Viewing Angle - Horizontal / Vertical	160° / 160°	160° / 160°	160° (XD 140° ³) / 160° (XD 140° ³)	160° / 160°	160°	160° / 160°	160° / 160°
	Bit Depth	16 Bit per Color	16 Bit per Color	16 Bit per Color	16 Bit per Color	16 Bit per Color	16 Bit per Color	16 Bit per Color
	Color Temperature - Default	6,500K	6,500K	6,500K	6,500K	6,500K	6,500K	6,500K
	Color Temperature - Adjustable	2,800 - 10,000K (Use S-Box)	2,800 - 10,000K (Use S-Box)	2,800 - 10,000K (Use S-Box)	2,800 - 10,000K (Use S-Box)	2,800 - 10,000K (Use S-Box)	2,800 - 10,000K (Use S-Box)	2,800 - 10,000K (Use S-Box)
Electrical Parameter	Video Rate	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
	Input Power Range	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz	100 - 240 VAC, 50/60 Hz
	Power Consumption - Max	711 (W/m ²) / 260 (W/Cabinet)	770 (W/m ²) / 200 (W/Cabinet)	695 (W/m ²) / 180 (W/Cabinet)	620 (W/m ²) / 200 (W/Cabinet)	580 (W/m ²) / 200 (W/Cabinet)	580 (W/m ²) / 200 (W/Cabinet)	580 (W/m ²) / 200 (W/Cabinet)
	Power Consumption - Typ	237 (W/m ²) / 87 (W/Cabinet)	258 (W/m ²) / 68 (W/Cabinet)	232 (W/m ²) / 60 (W/Cabinet)	206 (W/m ²) / 54 (W/Cabinet)	193 (W/m ²) / 67 (W/Cabinet)	193 (W/m ²) / 67 (W/Cabinet)	193 (W/m ²) / 67 (W/Cabinet)
	Heat Generation - Max (BTU / SF)	225 BTU / SF per Hour	245 BTU / SF per Hour	220 BTU / SF per Hour	196 BTU / SF per Hour	184 BTU / SF per Hour	184 BTU / SF per Hour	184 BTU / SF per Hour
	Refresh Rate	3,840 Hz	1,920Hz, 3,840 Hz Selectable	1,920Hz, 3,840 Hz Selectable	1,920Hz, 3,840 Hz Selectable	1,920Hz, 3,840 Hz Selectable	1,920Hz, 3,840 Hz Selectable	1,920Hz, 3,840 Hz Selectable
Operation Conditions	Working Temperature / Humidity	0°C - 40°C / 10 - 80%RH	0°C - 40°C / 10 - 80%RH	0°C - 40°C / 10 - 80%RH	0°C - 40°C / 10 - 80%RH	0°C - 40°C / 10 - 80%RH	0°C - 40°C / 10 - 80%RH	0°C - 40°C / 10 - 80%RH
	Storage Temperature / Humidity	-20°C - 45°C / 5 - 95%RH	-20°C - 45°C / 5 - 95%RH	-20°C - 45°C / 5 - 95%RH	-20°C - 45°C / 5 - 95%RH	-20°C - 45°C / 5 - 95%RH	-20°C - 45°C / 5 - 95%RH	-20°C - 45°C / 5 - 95%RH
	IP Rating	IP20	IP20	IP20	IP20	IP20	IP20	IP20
	LED Lifetime	100,000 Hours	100,000 Hours	100,000 Hours	100,000 Hours	100,000 Hours	100,000 Hours	100,000 Hours
Certification	Certification	EMC Class B, Safety 60950-1	EMC Class A, Safety 60950-1	EMC Class A, Safety 60950-1	EMC Class A, Safety 60950-1	EMC Class A, Safety 60950-1	EMC Class A, Safety 60950-1	EMC Class A, Safety 60950-1
Service	Service	Front Service / Parts Rear Service ²	Front Service and / or Rear Service	Front Service and / or Rear Service	Front Service and / or Rear Service	Front Service and / or Rear Service	Front Service and / or Rear Service	Front Service and / or Rear Service
Package	Box Dimension (mm / inches, Lx H x D)	943 x 606 x 167 / 37.1" x 23.9" x 6.6"	606 x 667 x 179 / 23.9" x 26.3" x 7.0"	606 x 667 x 179 / 23.9" x 26.3" x 7.0"	606 x 667 x 179 / 23.9" x 26.3" x 7.0"	606 x 847 x 179 / 23.9" x 33.3" x 7.0"	606 x 847 x 179 / 23.9" x 33.3" x 7.0"	606 x 847 x 179 / 23.9" x 33.3" x 7.0"
	Box Volume (Cubic Meter / Cubic Feet)	0.095 / 3.4	0.073 / 2.6	0.073 / 2.6	0.073 / 2.6	0.092 / 3.2	0.092 / 3.2	0.092 / 3.2
	Package Weight (kg, per Cabinet)	16.5kg / 36.4 lbs	9.1kg / 20.1 lbs	9.1kg / 20.1 lbs	9.1kg / 20.1 lbs	10.4kg / 22.9 lbs	10.4kg / 22.9 lbs	10.4kg / 22.9 lbs
Curve Installation	Concave	N/A	6000R	6000R	6000R	6000R	6000R	6000R
	Convex	N/A	N/A	N/A	N/A	N/A	6000R	6000R

¹Peak Value according to IDMS (Information Display Measurement Standard)

²T-Con / Power supply can be accessible from rear

³According to the XD LED characteristics

S-Box

Front



Back





Model		SBB-SNOWJ3U
SoC	SoC	Cortex-A121GHz Quad Core
	Memory	2.5GB 96-bit DDR3-933 (1866MHz)
Storage	Storage	8GB (3.75GB Occupied by O/S, 4.25GB Available)
Graphics	Graphics	2D and 3D Graphics Engine - Supports OpenGL ES
OS	OS	Tizen 2.4 OS
Input / Output	Input / Output	DP In, HDMI1, HDMI2
	Input / Output	HDBT Out x 4, SPDIF (Audio) Out x 1
	Input / Output	RJ-45 (10 / 100Mbps), RS232 (Stereo) In
	Input / Output	USB 2.0 Port x 2
Power	Power Supply	AC 100 - 240 V- (+/- 10 %), 50/60 Hz
	Power Consumption	Working: 60 Watt/h (BTU: 204.73 BTU/h)
		Standby: 0.5 Watt/h (BTU: 1.71 BTU/h)
Operation	Operating Temperature	0°C to 40°C
	Humidity	10 to 80%
Mechanical	Dimension (mm)	S-Box: 422.4 x 38.3 x 221.1 / IG: 75.6 x 23.3 x 268.8
	Weight (kg)	S-Box: 2.65 / IG: 0.5
Certification	Safety	UL/c-UL, CB
	EMC	FCC Class B, CE, VCCI, KCC, BSMI, C-Tick, CCC, NATA, GOST
Other	Other	Dimming (Brightness Sensor)

Direct Mount™ Kit

Model		VG-LFJ32	VG-LFJ33	VG-LFH15	VG-LFH20	VG-LFH25
Mechanical Spec	SET Size After Installation (WxHxD, mm / inches)	2405.2 x 906.2 x 49.8 / 94.7" x 35.7" x 2.0"	2405.2 x 1359.8 x 49.8 / 94.7" x 53.5" x 2.0"	2865.0 x 1611.8 x 49.8 / 112.8" x 63.5" x 2.0"	3824.6 x 2151.5 x 49.8 / 150.6" x 84.7" x 2.0"	4784.2 x 2691.2 x 49.8 / 188.4" x 106" x 2.0"
	Set Weight [kg / lbs] (Except Accessories)	3.8 / 8.4	5.6 / 12.3	10.8 / 23.8	18.4 / 40.6	28.2 / 62.2
	Safe Working Load (kgf / lbs)	85 / 187.4	130 / 286.6	10.8 / 23.8	18.4 / 40.6	28.2 / 62.2
Standard Cabinet	Samsung LED Signage Models	LH012IFJ	LH012IFJ	LH015IFH, LH020IFH, LH025IFH	LH015IFH, LH020IFH, LH025IFH	LH015IFH, LH020IFH, LH025IFH
	Number of Cabinets	6 (3 x 2)	9 (3 x 3)	18	32	50
Package	Packaging Size (LxHxD, mm / inches)	1019 x 419 x 233 / 40.1" x 16.5" x 9.2"	1922 x 419 x 164 / 75.7" x 16.5" x 6.5"	1777 x 787 x 114 / 70.0" x 31.0" x 4.5"	2313 x 881 x 114 / 91.1" x 34.7" x 4.5"	2853 x 1157 x 114 / 112.3" x 45.6" x 4.5"
	Gross Weight [kg±5%, kg / lbs]	10.5 / 23.1	13.9 / 30.6	21.9 / 48.3	34.6 / 76.3	50.2 / 110.7
	20ft DC Loading Size (Standard)	16 units/Individual unit, 192 units/Stuffing	24 units/Individual unit, 144 units/Stuffing	15 units/Individual unit, 105 units/Stuffing	17 units/Individual unit, 68 units/Stuffing	17 units/Individual unit, 34 units/Stuffing
	40ft DC loading size (Standard)	16 units/Individual unit, 448 units/Stuffing	24 units/Individual unit, 312 units/Stuffing	15 units/Individual unit, 210 units/Stuffing	17 units/Individual unit, 136 units/Stuffing	17 units/Individual unit, 68 units/Stuffing

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