



SAMSUNG SMART LED SIGNAGE FINE PIXEL PITCH IL015E / IL020F / IL025E

Deliver impressive, eye-catching experiences

When the details matter, leave nothing to chance. Samsung fine pixel pitch SMART LED signage is the best way to engage customers with a seamless viewing experience, no matter the environment. Their high-resolution and bezel-free displays mean that nothing gets in the way of your message, and a host of flexible cabinet options give you the freedom to be creative.

Highlights

- Deliver superior picture quality with brighter, high-resolution screens
- Built for quality with more durable components
- Support your solution with round-the-clock support

SAMSUNG

BRIGHT AND VIBRANT IMAGE QUALITY

Precisely Selected Diode

Samsung fine pixel pitch SMART LED signage is more vibrant, with colors that pop and images that are clear and bright. We ensure the quality of our displays with preferential binning practices and use only the industry's highest-quality, tier-one diodes, to minimize manufacturing variations.

Superior Picture Quality

Samsung leverages its world-renowned video processing technology, proven in Samsung TV and LCD signage, to ensure the highest video quality in SMART LED signage.



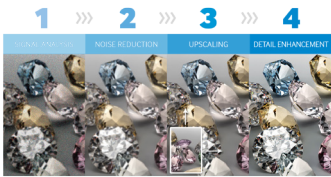
Advanced Auto Contrast Enhancer

Splits each frame into multiple areas by analyzing the similarity of brightness and color. Precisely adjusting the contrast to create deeper blacks and purer whites, making enhancements to colors and details.



PurColor

PurColor technology produces more details in color gradation for precise color reproduction. Color adjustment points have been increased dramatically by more than seven times, resulting in color shades that are much richer and more detailed.

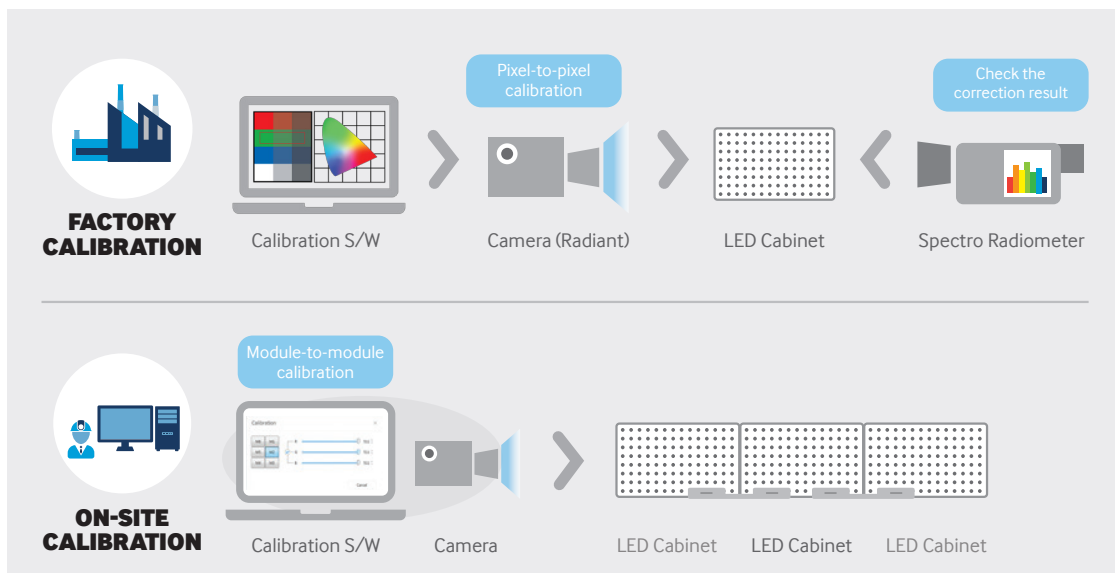


Upscaling

Unique four-step upscaling process analyzes the original images, removes noise, and then upscales them to FHD resolution. Then for the final touch, details are refined further, for life-like pictures.

Finely Calibrated for Consistency

Samsung's advanced color calibration for fine pixel pitch displays eliminates color expression gaps and maintains presentation consistency to prevent irregularities. The factory calibration process tunes each sub-pixel to achieve precise brightness uniformity and color chromaticity across each screen out-of-the-box. Once the calibrated LED cabinets are installed, Samsung can also support module-to-module calibration and make adjustments on-site.



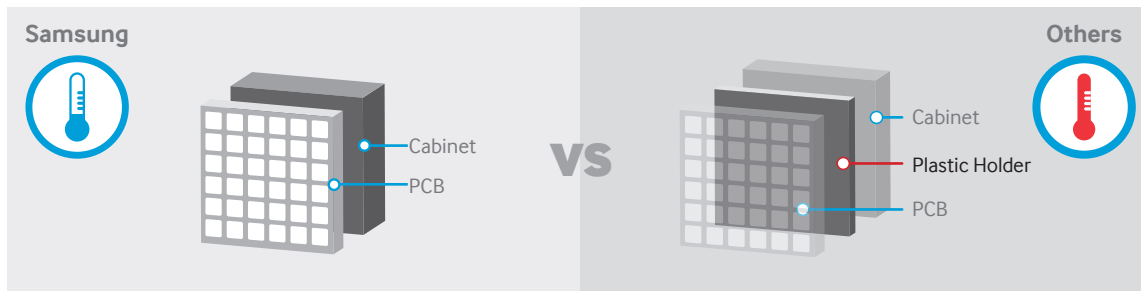
BUILT FOR QUALITY

Longer-lasting Solutions

Samsung's energy-saving cabinet design* means signage that lasts for years, while saving you money in the long run. Adaptive temperature control and improved ventilation lower the heat profile of the cabinets, reducing cooling costs and prolonging the lifespan of your solution. We have optimized the distance between electric circuits to minimize thermal interference and preserve image quality. As added benefits, the fanless design reduces issues caused by dust and rigid particles and reduces noise.

*Energy-saving cabinet design

Unlike conventional devices, Samsung cabinets are built plastic-free to limit heat transfer from the LED circuit board to the cabinet itself.



Built-in Value

Samsung signage comes complete with integrated devices to make content management easier and more efficient.



Embedded Receiver

An HDBase-T RX module, embedded in Samsung fine pixel pitch solutions, enables remote transmission of video or images up to 100m away without any quality loss. You can save on your total network costs, because you don't need any additional devices to get started.



Integrated LED Signage Box (S-Box)

Simplify installation and content delivery, with S-Box, an integrated signal box that replaces expensive external video processors. S-Box delivers content and synchronizes across multiple screens and it's designed to work with MagicInfo.



Integrated Content Management

Samsung's MagicInfo S3, Samsung's professional content management software, quickly and effortlessly schedules and deploys pre-built or custom content to the display receiver. MagicInfo makes content creation and management easy.

Supporting Your Solution



Proactive Support

If a more complex error occurs, a service team will work closely with the customer to alleviate problems quickly and return the display to optimal operation. Our technicians are ready to give their support and troubleshoot any issues that may arise.



LED Signage Manager

The LED Signage Manager (LSM) is a free software package that helps you monitor your displays and diagnose common issues, such as LED dot errors, power fluctuations and temperature changes. LSM also helps you control LED cabinet configurations and system-related settings, to make changing the layouts or positions of your cabinets easier.

Specification		ILO15E	ILO20F	ILO25E
Physical Parameters	Pixel Pitch	1.5 mm	2.0 mm	2.5 mm
	Pixel Configuration	1 red, 1 green, 1 blue	1 red, 1 green, 1 blue	1 red, 1 green, 1 blue
	Pixel Density	444,444 m ² / 41,290 ft ²	250,000 m ² / 23,225 ft ²	160,000 m ² / 14,864 ft ²
	Cabinet/Module Configuration (LxH)	320x360 pixels	240x270 pixels	192x216 pixels
	Diode Type	Surface Mount Device (SMD)	Surface Mount Device (SMD)	Surface Mount Device (SMD)
	Dimensions (LxH)	480x540 mm (per cabinet)	480x540 mm (per cabinet)	480x540 mm (per cabinet)
	Weight	8.9 kg (per cabinet)	8.9kg (per cabinet)	8.9 kg (per cabinet)
Optical Parameters	Brightness	800 nit	800nit	2,000 nit
	Contrast Ratio	3,000:1	3,000:1	5,000:1
	Viewing Angle – Horizontal	160°	160°	160°
	Viewing Angle – Vertical	120°	120°	120°
	Number of Colors	11.2 trillion colors	11.2 trillion colors	11.2 trillion colors
	Color Temperature – Default	6,500 K	6,500K	6,500 K
	Color Temperature – Adjustable	2,800–10,000 K	2,800 ~ 10,000K	2,800–10,000 K
Electrical Parameters	Video Rate	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
	Power Consumption – Max(W/m ²)	810 (W/m ²) / 210 (W/cabinet)	660(W/m ²) / 170(W/Cabinet)	580 (W/m ²) / 150 (W/cabinet)
	Power Consumption – Typical(W/m ²)	270 (W/m ²) / 70 (W/cabinet)	230(W/m ²) / 60(W/Cabinet)	190 (W/m ²) / 50 (W/cabinet)
	Refresh Rate	2,500 Hz	3,660 Hz	2,500 Hz
Operating Conditions	Working Temperature	0°C~40°C (32°F to 104°F)	0°C~40°C (32°F to 104°F)	0°C~40°C (32°F to 104°F)
	IP Rating	IP20	IP20	IP20
	LED Lifetime	100,000 hours	100,000 hours	100,000 hours
Certification	Certification	EMC Class A, Safety 60950	EMC Class A, Safety 60950	EMC Class A, Safety 60950

※Specs are subject to change without prior notice

SMART LED Signage

For more information about Samsung LED signage, visit www.samsung.com/business or www.samsung.com/displaysolutions

Screen images simulated.

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