

Indoor LED Signage

IEA Series

Creating an unforgettable in-store experience with custom-fit design



Industry trend

Even as online shopping and e-commerce have taken over, many brick-and-mortar stores continue to thrive by creating distinct, memorable in-store experiences. Physical retail stores that utilize LED signage to create innovative, eye-catching content have found they can both draw in new customers and encourage return visits from their most loyal customers. The market for indoor LED Signage is expected to continue to grow for the foreseeable future. It's no surprise then, that implementing modern in-store LED Signage has not only become common, but really is an essential element in creating an unforgettable in-store experience.

Why Samsung IEA Series

Samsung's IEA Series is designed especially for retail stores, with Samsung's industry-leading picture quality and an intuitive, streamlined content management system allowing store managers to easily and efficiently update display content. The IEA Series displays also feature multiple cabinet sizes giving retailers additional options, providing cost savings and greater flexibility in the design and layout of their displays. This means displays can be custom-fit for their specific space requirements, giving customers a more immersive experience.



Flexible design



High picture quality

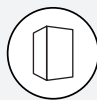


Operational efficiency

Key features



Curved



L-Type



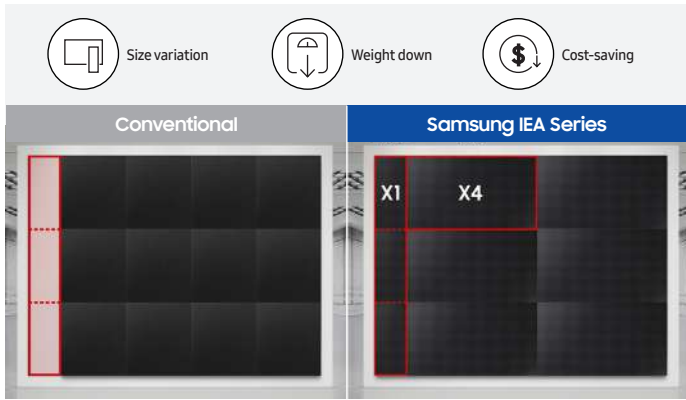
Ceiling



Flexible design for any location

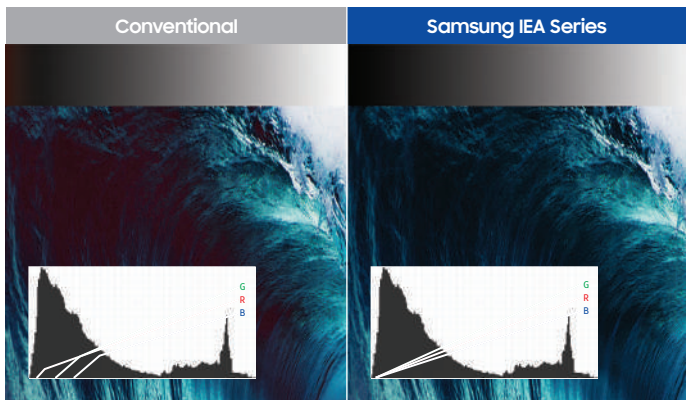
The IEA series' advanced design provides flexibility for any indoor retail or other business environment. With support of portrait, landscape, curved, L-shaped and ceiling installations, businesses can have ultimate control to create the ideal display for their space.

Key features



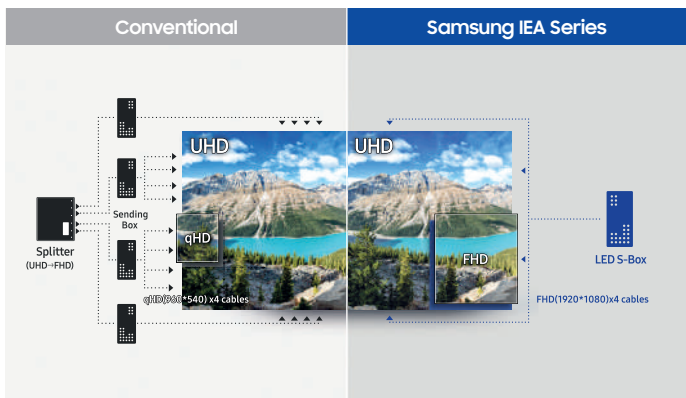
Easier, cost-saving installation

The IEA Series supports two cabinet types. One version features a larger, lighter screen compared to conventional cabinets, simplifying installation. The other is a quarter of the size and provides more flexibility in design.



Accurate color in low brightness arena

Conventional LED displays struggle to present red, green and blue color hues accurately in low grayscale settings. The IEA Series overcomes these challenges through a unique algorithm that maintains R/G/B gradation and delivers precise, detail-rich hues in low-brightness indoor environments.



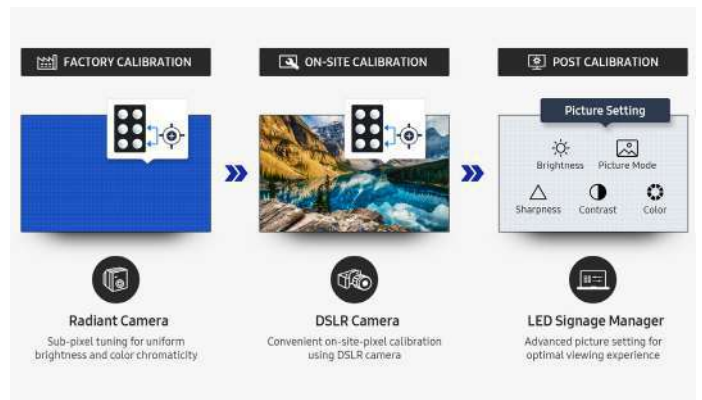
Streamlined UHD content delivery

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



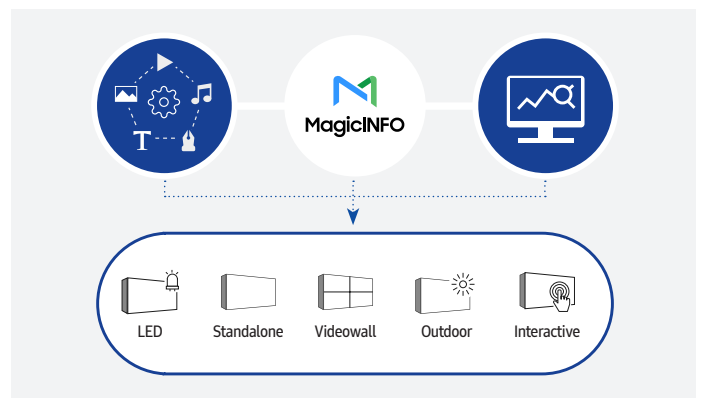
Clearly refined visuals

LED HDR leverages advanced refinement technologies for true-to-life picture presentation. Dynamic Peaking and Inverse Tone Mapping enhance content to optimum peak brightness levels with improved contrast and without shine, while in-depth Color Mapping ensures an accurate expression of colors.



Fine-tuned uniformity

Rigorous factory calibration and real-time DSLR camera sub-pixel calibration fine-tune all sub-pixels for uniform brightness and color chromaticity. When coupled with the Samsung LED Signage Manager's advanced picture settings, this enhanced treatment produces excellent presentation.



Manage content and devices anywhere

Compatibility with the MagicINFO platform enables IEA Series' users to create, schedule and deploy content across an entire signage network. Users can also monitor and adjust the settings of different display types at the same time and troubleshoot potential performance issues from any location via remote access.

Specifications

| Model | | IEA | | | |
|-----------------------|--|---|---|---|---|
| | | IE015A | IE020A | IE025A | IE040A |
| | | LH015IEACLS | LH020IEACLS | LH025IEACLS | LH040IEACLS |
| Physical Parameter | Pixel Pitch | 1.5mm | 2.0 mm | 2.5 mm | 4.0 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 |
| | Configuration (LxH, per cabinet) | 640 x 360 pixels | 480 x 270 pixels | 384 x 216 pixels | 240 x 135 pixels |
| | Diode Type | Surface Mount Device (SMD) | Surface Mount Device (SMD) | Surface Mount Device (SMD) | Surface Mount Device (SMD) |
| | Dimensions (mm, LxHxD, per cabinet) | 960 x 540 x 79.5 mm | 960 x 540 x 79.5 mm | 960 x 540 x 79.5 mm | 960 x 540 x 79.5 mm |
| | Dimensions (inch, per cabinet) | 43.3 x 3.13 inch | 43.3 x 3.13 inch | 43.3 x 3.13 inch | 43.3 x 3.13 inch |
| | No. of Modules (WxH, per cabinet) | 4 x 3 | 4 x 3 | 4 x 3 | 4 x 3 |
| | Weight (per cabinet/per m ²) | 11.8 kg / 22.8 kg | 12.4 kg / 23.9 kg | 10.8 kg / 20.8 kg | 10.8 kg / 20.8 kg |
| Optical Parameter | Brightness (Peak/Max) ⁽¹⁾ | 1,000 nit / 500 nit | 1,000 nit / 500 nit | 1,000 nit / 500 nit | 800 nit / 500 nit |
| | Contrast Ratio ⁽²⁾ | 6,000:1 | 7,500:1 | 5,000:1 | 5,000:1 |
| | HDR Compatibility | LED HDR / HDR10+ support / Multi-link HDR | LED HDR / HDR10+ support / Multi-link HDR | LED HDR / HDR10+ support / Multi-link HDR | LED HDR / HDR10+ support / Multi-link HDR |
| | Viewing Angle - Horizontal | 150° | 150° | 150° | 150° |
| | Viewing Angle - Vertical | 150° | 150° | 150° | 150° |
| | Bit Depth | 16 bit (Internal processing 18bit) | 16 bit (Internal processing 18bit) | 16 bit (Internal processing 18bit) | 16 bit (Internal processing 18bit) |
| | Color Temperature - Default | 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) |
| Electrical Parameter | Video Rate | 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 |
| | Power Consumption - Max | 367 (W/m ²) / 190 (W/Cabinet) | 367 (W/m ²) / 190 (W/Cabinet) | 347 (W/m ²) / 180 (W/Cabinet) | 347 (W/m ²) / 180 (W/Cabinet) |
| | Power Consumption - Typ | 203 (W/m ²) / 105 (W/Cabinet) | 203 (W/m ²) / 105 (W/Cabinet) | 116 (W/m ²) / 60 (W/Cabinet) | 116 (W/m ²) / 60 (W/Cabinet) |
| | Heat Generation - Max | 1,251 (BTU/m ²) / 648 (BTU/Cabinet) | 1,251 (BTU/m ²) / 648 (BTU/Cabinet) | 1,185 (BTU/m ²) / 614 (BTU/Cabinet) | 1,185 (BTU/m ²) / 614 (BTU/Cabinet) |
| | Heat Generation - Typ | 691 (BTU/m ²) / 358 (BTU/Cabinet) | 691 (BTU/m ²) / 358 (BTU/Cabinet) | 395 (BTU/m ²) / 205 (BTU/Cabinet) | 395 (BTU/m ²) / 205 (BTU/Cabinet) |
| | Refresh Rate | 3,840 Hz | 3,840 Hz | 3,840 Hz | 3,840 Hz |
| Operational Parameter | Power Redundancy | N/A | N/A | N/A | N/A |
| | 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 |
| | 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 |
| | IP Rating | IP20 | IP20 | IP20 | IP20 |
| | LED Lifetime | 100,000 hours | 100,000 hours | 100,000 hours | 100,000 hours |
| Connectivity | Controller | SNOW-JMU, SNOW-RAF | SNOW-JMU, SNOW-RAF | SNOW-JMU, SNOW-RAF | SNOW-JMU, SNOW-RAF |
| | Connectivity | HDBT | HDBT | HDBT | HDBT |
| Certification | Safety | 62368-1, 60950-1 | 62368-1, 60950-1 | 62368-1, 60950-1 | 62368-1, 60950-1 |
| | EMC | Class A | Class A | Class A | Class A |
| Service | Service | Front | Front | Front | Front |
| Features | Operating System | Tizen | Tizen | Tizen | Tizen |
| | MagiCINFO | Yes | Yes | Yes | Yes |
| | Sensor | Temperature | Temperature | Temperature | Temperature |
| | Other | Eco Image Enhancer | Eco Image Enhancer | Eco Image Enhancer | Eco Image Enhancer |
| Accessories | Accessories | Frame kit | Frame kit | Frame kit | Frame kit |
| Package | Box Dimension (mm, WxHxD) | 1,119 x 206 x 699 mm | 1,119 x 206 x 699 mm | 1,119 x 206 x 699 mm | 1,119 x 206 x 699 mm |
| | Package Weight (kg, per cabinet) | 16.5 kg | 16.5 kg | 16.5 kg | 16.5 kg |
| Special Installation | Curve (Concave/Convex) | 12000R / N/A | 12000R / N/A | 12000R / N/A | 12000R / N/A |
| | L-shape | N/A | N/A | N/A | N/A |
| | Ceiling / Incline ⁽³⁾ | Up to Forward 90° (Ceiling) | Up to Forward 90° (Ceiling) | Up to Forward 90° (Ceiling) | Up to Forward 90° (Ceiling) |
| | Rotation | Yes (90° clockwise) | Yes (90° clockwise) | Yes (90° clockwise) | Yes (90° clockwise) |

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

(2) Measured under 10lux light. Contrast in darkroom exceeds 1000000:1

(3) For ceiling installation, screen should be installed at least 1.8m height with no vibration

Specifications

| Model | | IEA-F | | | |
|-----------------------|--|--|--|--|--|
| | | IE015A-F | IE020A-F | IE025A-F | IE040A-F |
| | | LH015IEACFS | LH020IEACFS | LH025IEACFS | LH040IEACFS |
| Physical Parameter | Pixel Pitch | 1.5 mm | 2.0 mm | 2.5 mm | 4.0 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 |
| | Configuration (LxH, per cabinet) | 160 x 360 pixels | 120 x 270 pixels | 96 x 216 pixels | 60 x 135 pixels |
| | Diode Type | Surface Mount Device (SMD) | Surface Mount Device (SMD) | Surface Mount Device (SMD) | Surface Mount Device (SMD) |
| | Dimensions (mm, LxHxD, per cabinet) | 240 x 540 x 81 mm | 240 x 540 x 81 mm | 240 x 540 x 81 mm | 240 x 540 x 81 mm |
| | Dimensions (inch, per cabinet) | 23.3 x 3.18 inch | 23.3 x 3.18 inch | 23.3 x 3.18 inch | 23.3 x 3.18 inch |
| | No. of Modules (WxH, per cabinet) | 1 x 3 | 1 x 3 | 1 x 3 | 1 x 3 |
| Optical Parameter | Weight (per cabinet/per m ²) | 3.2 kg / 24.7 kg | 3.2 kg / 24.7 kg | 3.2 kg / 24.7 kg | 3.2 kg / 24.7 kg |
| | Brightness (Peak/Max) ⁽¹⁾ | 1,000 nit / 500 nit | 1,000 nit / 500 nit | 1,000 nit / 500 nit | 800 nit / 500 nit |
| | Contrast Ratio ⁽²⁾ | 6,000:1 | 7,500:1 | 5,000:1 | 5,000:1 |
| | HDR Compatibility | LED HDR / HDR10+ support / Multi-link HDR | LED HDR / HDR10+ support / Multi-link HDR | LED HDR / HDR10+ support / Multi-link HDR | LED HDR / HDR10+ support / Multi-link HDR |
| | Viewing Angle - Horizontal | 150° | 150° | 150° | 150° |
| | Viewing Angle - Vertical | 150° | 150° | 150° | 150° |
| | Bit Depth | 16 bit (Internal processing 18bit) | 16 bit (Internal processing 18bit) | 16 bit (Internal processing 18bit) | 16 bit (Internal processing 18bit) |
| Electrical Parameter | Color Temperature - Default | 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) |
| | Video Rate | 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 |
| | Power Consumption - Max | 463 (W/m ²) / 60 (W/Cabinet) | 463 (W/m ²) / 60 (W/Cabinet) | 463 (W/m ²) / 60 (W/Cabinet) | 463 (W/m ²) / 60 (W/Cabinet) |
| | Power Consumption - Typ | 309 (W/m ²) / 40 (W/Cabinet) | 309 (W/m ²) / 40 (W/Cabinet) | 154 (W/m ²) / 20 (W/Cabinet) | 154 (W/m ²) / 20 (W/Cabinet) |
| | Heat Generation - Max | 1580 (BTU/m ²) / 205 (BTU/Cabinet) | 1580 (BTU/m ²) / 205 (BTU/Cabinet) | 1580 (BTU/m ²) / 205 (BTU/Cabinet) | 1580 (BTU/m ²) / 205 (BTU/Cabinet) |
| Heat Generation - Typ | 1053 (BTU/m ²) / 137 (BTU/Cabinet) | 1053 (BTU/m ²) / 137 (BTU/Cabinet) | 527 (BTU/m ²) / 68 (BTU/Cabinet) | 527 (BTU/m ²) / 68 (BTU/Cabinet) | |
| Operational Parameter | Refresh Rate | 3,840 Hz | 3,840 Hz | 3,840 Hz | 3,840 Hz |
| | Power Redundancy | N/A | N/A | N/A | N/A |
| | 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 |
| | 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 |
| | IP Rating | IP20 | IP20 | IP20 | IP20 |
| Connectivity | LED Lifetime | 100,000 hours | 100,000 hours | 100,000 hours | 100,000 hours |
| | Controller | SNOW-JMU, SNOW-RAF | SNOW-JMU, SNOW-RAF | SNOW-JMU, SNOW-RAF | SNOW-JMU, SNOW-RAF |
| Certification | Connectivity | HDBT | HDBT | HDBT | HDBT |
| | Safety | 62368-1, 60950-1 | 62368-1, 60950-1 | 62368-1, 60950-1 | 62368-1, 60950-1 |
| Service | EMC | Class A | Class A | Class A | Class A |
| | Service | Front | Front | Front | Front |
| Features | Operating System | Tizen | Tizen | Tizen | Tizen |
| | MagiCINFO | Yes | Yes | Yes | Yes |
| | Sensor | Temperature | Temperature | Temperature | Temperature |
| | Other | Eco Image Enhancer | Eco Image Enhancer | Eco Image Enhancer | Eco Image Enhancer |
| Accessories | Accessories | Frame kit | Frame kit | Frame kit | Frame kit |
| | Box Dimension (mm, WxHxD) | 653 x 148 x 354 mm | 653 x 148 x 354 mm | 653 x 148 x 354 mm | 653 x 148 x 354 mm |
| Special Installation | Package Weight (kg, per cabinet) | 4.9 kg | 4.9 kg | 4.9 kg | 4.9 kg |
| | Curve (Concave/Convex) | 3000R / 3000R | 3000R / 3000R | 3000R / 3000R | 3000R / 3000R |
| | L-shape | Yes | Yes | Yes | Yes |
| | Ceiling / Incline ⁽³⁾ | Up to Forward 90° (Ceiling) | Up to Forward 90° (Ceiling) | Up to Forward 90° (Ceiling) | Up to Forward 90° (Ceiling) |
| Rotation | Yes (90° clockwise) | Yes (90° clockwise) | Yes (90° clockwise) | Yes (90° clockwise) | |

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

(2) Measured under 10lux light. Contrast in darkroom exceeds 1000000:1

(3) For ceiling installation, screen should be installed at least 1.8m height with no vibration

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LED Signage

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