SAMSUNG

Indoor LED Signage

XHB-F series

Make a lasting impression

Introducing Samsung XHB-F series: a reliable, attention-grabbing outdoor display built to stand out on gameday. Featuring consistent 2,000nit brightness, the XHB-F series delivers immersive content to delight spectators anytime, anywhere. The new Z-clip system drastically simplifies installation while two handles on the top of the cabinet allow easy lifting of the lid for quick and easy top service support. The cabinet can only be opened with a key, preventing unauthorized access and unforeseen accidents. The XHB-F series runs at just 285 W/m², reducing power consumption up to 22.2% compared with conventional products.

Key features

Brilliant Visuals

Featuring 2,000nit brightness and Samsung's powerful S-box support, the XHB-F series illuminates the surrounding area in any weather or lighting conditions.

Improved Energy Efficiency

XHB-F series runs at just 285 W/m², reducing power consumption up to 22.2% compared with conventional products for more sustainable business operation.

Z-clip Installation

The new Z-clip system allows effortless installation requiring just one or two Z-clips to be attached to the top and bottom depending on the stadium environment.

Fast Top Service Support

The XHB-F provides simple, quick top service maintenance with two handles on top of the cabinet lid and stoppers inside.

Cabinet Lock

The XHB-F series cabinet can only be opened with a key, blocking outsiders from tampering with the display and preventing unforeseen accidents.

*Figure is based on XHB-F cabinet and against Samsung's XPR-S indoor LED signage.

Specifications

Model	XHB-FAi	XHB-FBi
	LHX10CSF230	LHX10CSF220
Physical Parameter		
Pixel Pitch	10.78 mm	10.78 mm
Pixel Configuration	1 red, 1 green, 1 blue	1 red, 1 green, 1 blue
Diode Type	Surface Mount Device (SMD)	Surface Mount Device (SMD)
Diode Info	XD Cu	XD Cu
Configuration (W x H, Per cabinet)	64 x 96 pixels	64 x 64 pixels
Diode Density (Per m²)	8,605/m²	8,605/m²
Dimensions (mm, W x H x D, Per cabinet)	689.5 x 1,117.5 x 235 mm	689.5 x 772.5 x 235 mm
Dimensions (Inch, Inch x D, Per cabinet)	49.0 x 9.2 in.	38.4 x 9.2 in.
No. of Modules (W x H, Per cabinet)	2 x 3	2 x 2
Weight (kg, Per cabinet/Per m²)	32.2/45.1	24.2/ 0.9
Cabinet Construction	Aluminum	Aluminum
Optical Parameter		
Brightness	2,000 nit	2,000 nit
Contrast Ratio	2,000:1	2,000:1
Viewing angle - Horizontal	160° (+/- 80°)	160° (+/- 80°)
Viewing angle - Vertical	160° (+/- 80°)	160° (+/- 80°)
Video Processing	24 bit, 100% digital	24 bit, 100% digital
Color Processing	16 bit per color (48 bit total)	16 bit per color (48 bit total)
Number of colors	281 trillion colors	281 trillion colors
Gray Scale Intensity	65,536 levels of red, green, and blue	65,536 levels of red, green, and blue
Dimming Capability	256 levels of brightness	256 levels of brightness
Color temperature - Default	6,500K	6,500K
Electrical Parameter		
Video Rate	60 frames per second	60 frames per second
Input Power Range	100~240 VAC, 50/60 Hz	100~240 VAC, 50/60 Hz
Power consumption - Max (/cab)	200	130
Power consumption - Typ (/cab)	70	45
Power consumption - Max (/m²)	285	180
Power consumption - Typ (/m²)	98	65
BTU - Max (BTU/cab)	682	444
BTU - Typ (BTU/cab)	239	154
BTU - Max (BTU/m²)	972	614
BTU - Typ (BTU/m²)	334	222
Refresh Rate	7,680 Hz	7,680 Hz
Calibration White Point	D65 - 6500K	D65 - 6500K
Calibration Standards	REC 709, REC 2020 or Max Gamut	REC 709, REC 2020 or Max Gamut
Operation Conditions		
Working Temperature	0°C to +40°C (-40°F to 131°F)	0°C to +40°C (-40°F to 131°F)
Cooling	Fanless	Fanless
IP Rating	Front IP66 / Rear IP66	Front IP66 / Rear IP66
LED Lifetime	100,000 hours	100,000 hours
Monitoring Function	Temperature, Module working, F/W version, Interface status, Power status, LOD, Cal data on module	Temperature, Module working, F/W version, Interface status, Power status, LOD, Cal data on module
Certification		
Certification	CE, UL/ULC listed	CE, UL/ULC listed
Safety	62368-1, 60950-1, UL48	62368-1, 60950-1, UL48
Service		
Service	Top	Top
Package		
Box Dimension (mm / in., W x H x D)	1,285 x 832 x 532 mm / 50.6 x 32.8 x 20.9 in.	940 x 832 x 532 mm / 37 x 32.8 x 20.9 in.
Package Weight (kg / lbs., Per cabinet)	43 kg / 94.8 lbs.	32.4 kg / 71.4 lbs.

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