



SAMSUNG SMART SIGNAGE OUTDOOR DISPLAYS OHF SERIES

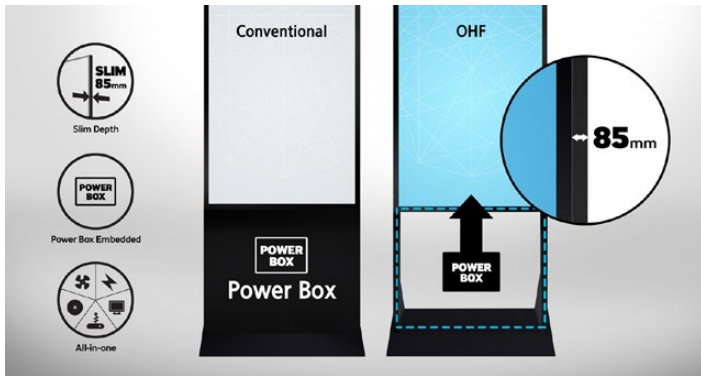
A powerful all-inclusive outdoor signage solution for business messaging

Samsung OHF Series SMART Signage delivers an all-inclusive outdoor signage solution that is completely equipped for virtually any environment. Featuring a slim 85mm depth display, along with the added convenience of an embedded power box, Samsung OHF Series have been built to ensure durability, flexibility, and the ability to operate 24/7 in extreme temperatures. And with 2,500 nit brightness, a 5,000:1 contrast ratio, and anti-reflection glass, businesses can ensure their messages are showcased almost anytime or anywhere.

HIGHLIGHTS

- Find convenience in an all-in-one solution with an embedded power box and network hub, along with an ultra slim depth of 85mm
- Allow a high level of endurance equivalent to IK10
- Rely on extra durability for 24/7 operation in any environment from -30°C to 50°C with IP56 Ingress Protection
- Attain a filter-less self-cooling system enabling easy maintenance and reduced TCO.
- Engage viewers with excellent visibility under direct sunlight through 2,500 nit High Brightness and anti-reflection glass.
- Attain an advanced content management solution by using SSSP 4.0 powered by TIZEN.

KEY FEATURES



OUTDOOR SIGNAGE WITH SIMPLIFIED INSTALLATION AND MAINTENANCE, PLUS AN ALL-ENCOMPASSING ARRAY OF PRE-ASSEMBLED FEATURES

OHF Series is conveniently and easily installed, designed and operated with a thin, all-in-one solution, which comes in a package which includes ingress protection, anti-reflection technology, an embedded power box, vandalism protection and a highly efficient cooling system. In addition, the embedded power box helps to condense operational components to the point where an ultra slim depth of 85mm can be attained. In addition, the embedded network hub functionality helps reduce TCO by avoiding the need for a router when linking products and allows for simple connection and easy installation, while reducing any concerns over radiant heat and waterproof capability.



ROBUST IK10* LEVEL OF ENDURANCE AGAINST EXTERNAL IMPACTS

Advanced display protection is provided through the 5 mm (0.19 in.) tempered Magic Glass featuring durability that is IK10-certified (European strength test), further referencing its robust level of strength that can endure external impacts. In addition, a gap between the Magic Glass and the LCD panel prevents LCD breakage when the protection glass is broken.

*IK rating refers to the degree of resistance against external impacts on a scale of 0 to 10, where 10 indicates the highest level of protection.

* Dual Protection Glass can be applied for stronger resistance if required.



CAPTIVATE AUDIENCES WITH EXCELLENT VISIBILITY

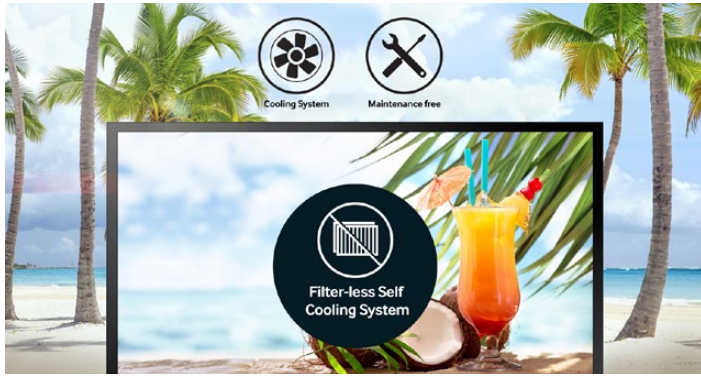
- High Visibility

OHF Series displays feature innovative Magic Glass, TUV Certified Image Quality and an Auto Brightness Sensor to optimize brightness in order to optimally convey messaging to virtually any viewer. These powerful displays also feature circular polarizing technology that eliminates display blindness caused by polarized sunglasses. OHF Series captivate viewers with superior messaging clarity delivered with high 2,500 nit brightness and 5,000:1 high contrast ratio in all inches above 24.

- Reflection Prevention

Greater content visibility is achieved under a combination of high brightness, lower reflection and high contrast ratio. The Magic Glass of the OHF Series that is in front of the displays' LCD panels removes the protection glass reflection, making the displayed images richer and clearer under direct sunlight.

KEY FEATURES



POSSESSING A SELF-COOLING SYSTEM WITH NO NEED FOR FILTER OR MAINTENANCE

Samsung's OHF Series comes complete with an advanced cooling system with heat exchanger, supported by advanced thermal control functionality. This enhances the overall efficiency in terms of both management and cost through its filter-less system. The system revolutionizes outdoor signage design, abandoning the thick enclosures to accommodate a full display package.



OPERATE RELIABLY IN VIRTUALLY ANY ENVIRONMENT

To deal with dust, moisture and other environmental variables that can damage your outdoor signage and impede operation, OHF Series ensure a high level of ingress defense with IP56 level protection that extends throughout the entire display.

As heat is a major factor due to outdoor signage being exposed to sunlight, operation of OHF Series has been made possible in temperatures that range from -30°C (-22°F) to 50°C (122°F) through a self-cooling system, allowing for a level of durability that can sustain 24/7 operations while negating the need for additional air conditioning systems.



VESA-COMPLIANT FOR SIMPLIFIED MOUNTING

The OHF Series comes complete with additional brackets (optional), in order to accommodate Standard VESA usage. Due to being VESA-compliant, the OHF series gives you the power and flexibility to mount your display according to your needs and without having to purchase a specific brand or model of wall mount. (Only applicable to 46" and 55")

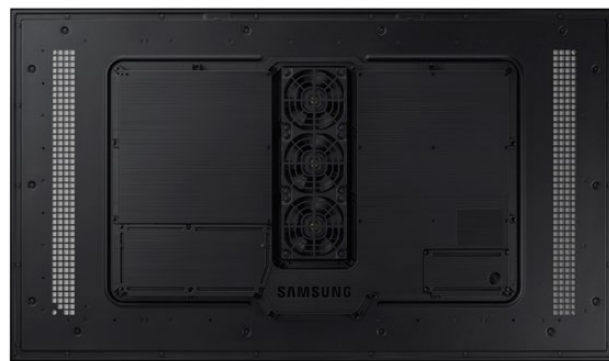


OFFERING ROBUST OPTIONS FOR CONTENT CREATION, MANAGEMENT TOOLS

Samsung's MagicInfo Player S4 empowers users with a new graphic engine applied to their signage that boosts the overall display performance while ensuring a seamless transition of content. It also operates as an advanced content management solution that can allow you to play media files, set and edit media playback schedules, and much more. MagicInfo Player S4 is robust enough to enable large organizations to manage multiple digital signage through an integrated single server and also remotely monitor and manage it from a centralized location.

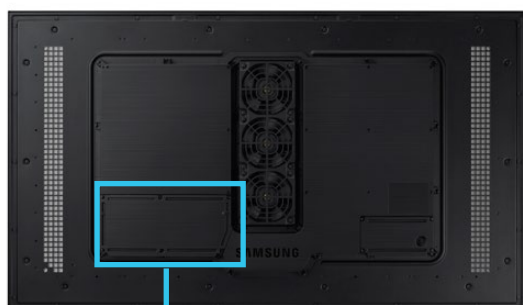


FRONT



BACK

CONNECTIVITIES



1. RS232C IN OUT
2. AUDIO OUT
3. USB
4. RJ45(LAN OUT)
5. HDBT(LAN IN)
6. HDMI IN1
7. HDMI IN2

MODEL			OH46F	OH55F	OH75F	OH85F
Panel	Diagonal Size	Class	46	55	75	85
		Measured	45.9" / 116.8cm	54.6" / 138.7cm	74.5" / 189.3cm	84.5" / 214cm
	Type		S-VA	S-VA	S-VA	S-VA / D-LED Local Dim.
	Resolution		1920x1080 (16:9)	1920x1080 (16:9)	1920 x 1080 (16:9)	3840x2160 (16:9)
	Pixel Pitch(mm)		0.530 x 0.530	0.630 x 0.630	0.860 x 0.860	0.488 x 0.488
	Active Display Area(mm)		1018.08(H) x 572.67(V)	1209.60(H) x 680.40(V)	1650.24(H) x 928.26(V)	1872(H) x 1053(V)
	Brightness(Typ.)		2,500 cd/m2	2,500 cd/m2	2,500 cd/m2	2,500 cd/m2
	Contrast Ratio		5,000:1 (TBD)	5,000:1 (TBD)	5,000:1 (TBD)	5,000:1 (TBD)
	Viewing Angle(H/V)		178/178 (TBD)	178/178 (TBD)	178/178 (TBD)	178/178 (TBD)
	Response Time(G-to-G)		6ms	6ms	6ms	6ms (TBD)
	Display Colors		8 bit - 16.7M	8 bit - 16.7M	8 bit - 16.7M	8 bit - 16.7M
	Color Gamut		72%	72%	72%	72%
	Operation Hour		24/7	24/7	24/7	24/7
	Haze		0%	0%	0%	0%
Display	Dynamic C/R		100,000:1	100,000:1	100,000:1	100,000:1
	H-Scanning Frequency		108 ~ 139.5 kHz	108 ~ 139.5 kHz	108 ~ 139.5 kHz	30 ~ 81kHz
	V-Scanning Frequency		96 ~ 123 Hz	96 ~ 123 Hz	96 ~ 123 Hz	48 ~ 75Hz
	Maximum Pixel Frequency		297MHz	297MHz	297MHz	594Mhz
Sound	Speaker Type		N/A	N/A	N/A	N/A
Connectivity	INPUT	RGB	N/A	N/A	N/A	DP1.2 (2) @UHD 60Hz
		VIDEO	HDMI 1.4 (2), HDBaseT(LAN Common)	HDMI 1.4 (2), HDBaseT(LAN Common)	HDMI 1.4 (2), HDBaseT(LAN Common)	HDMI 1.4 (2) @UHD 30Hz, HDBaseT
		HDCP	HDCP 2.2	HDCP 2.2	HDCP 2.2	HDCP 2.2(TBD)
		AUDIO	N/A	N/A	N/A	N/A
		USB	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 (only for FW update)
	OUTPUT	RGB	N/A	N/A	N/A	N/A
		VIDEO	N/A	N/A	N/A	N/A
		AUDIO	Stereo Mini Jack	Stereo Mini Jack	Stereo Mini Jack	Stereo Mini Jack
		USB	N/A	N/A	N/A	N/A
		Power Out	N/A	N/A	N/A	N/A
	External Control		RS232C (In/Out), RJ45(In/Out), HDBaseT	RS232C (In/Out), RJ45(In/Out), HDBaseT	RS232C (In/Out), RJ45(In/Out), HDBaseT	RS232C (In), RJ45, HDBaseT
	External Sensor		N/A	N/A	N/A	N/A
	Tuner		N/A	N/A	N/A	N/A
Power	Type		Internal	Internal	Internal	Internal
	Power Supply		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz	AC 100 - 240 V~ (+/- 10 %), 50/60 Hz
	Power Consumption	Max[W/h]	TBD	TBD	TBD	1500W (TBD)
		Typical[W/h]	TBD	TBD	TBD	TBD
		BTU(Max)	TBD	TBD	TBD	TBD
		Sleep mode	TBD	TBD	TBD	TBD
Off mode		TBD	TBD	TBD	TBD	

MODEL			OH46F	OH55F	OH75F	OH85F
Mechanical Spec	Dimension (mm)	Set	1069.0 x 623.6 x 85.0 mm	1260.6 x 731.4 x 85.0 mm	TBD	2004 x 1185 x 120
		Package	1156 x 713 x 200 mm	1358 x 845 x 230 mm	TBD	2200 x 1503 x 815 (TBD)
	Weight (kg)	Set	40.5Kg	52.6Kg	TBD	172kg
		Package	44.3Kg	58.1Kg	TBD	222kg (TBD)
	Mounting Hole		995 x 500 (Standard) 1000 x 400 (Optional VESA Wall Mount needed)	1187 x 560 (Standard) 1200 x 400 (Optional VESA Wall Mount needed)	TBD	M8 PEM NUT x 12 Hole
	Protection Glass		Yes (5T Tempered Glass)	Yes (5T Tempered Glass)	Yes (5T Tempered Glass)	Yes (5T Tempered Glass)
	Stand Type		N/A	N/A	N/A	N/A
Bezel Width (mm)		24.9 / 24.9 / 24.9 / 24.9 mm	24.9 / 24.9 / 24.9 / 24.9 mm	TBD	62 / 62 / 62 / 62 mm	
Operation	Operating Temperature		-30°C~ 50°C	-30°C~ 50°C	-30°C~ 50°C	-30°C~ 50°C
	Humidity		10~80%	10~80%	10~80%	10~80%
	IP Certificate		IP56	IP56	IP56	IP56
Key			Power-box Integrated, IP56 Outdoor, Built-in MagicInfo Player S4, SSSP 4.0	Power-box Integrated, IP56 Outdoor, Built-in MagicInfo Player S4, SSSP 4.0	Power-box Integrated, IP56 Outdoor, Built-in MagicInfo Player S4, SSSP 4.0	Slim High Brightness, IP56 Outdoor Heat Exchanger
	Special		IP56 Certified for Simple Enclosure Outdoor, Protection Glass(IK-10 Level, Anti Graffiti, Infrared Reduce), Polarized Sun Glasses Viewable in any direction, HD Base T for Long Distance Installalling, Portrait /Landscape Installation Support, Lamp Error Detection, Auto Brightness Control with Ambient Brightness Sensor, Temperature Sensor, RJ45 MDC, Auto Source Switching & Recovery, Clock Battery(80hrs Clock Keeping), Kensington Lock	IP56 Certified for Simple Enclosure Outdoor, Protection Glass(IK-10 Level, Anti Graffiti, Infrared Reduce), Polarized Sun Glasses Viewable in any direction, HD Base T for Long Distance Installalling, Portrait /Landscape Installation Support, Lamp Error Detection, Auto Brightness Control with Ambient Brightness Sensor, Temperature Sensor, RJ45 MDC, Auto Source Switching & Recovery, Clock Battery(80hrs Clock Keeping), Kensington Lock	IP56 Certified for Simple Enclosure Outdoor, Protection Glass(IK-10 Level, Anti Graffiti, Infrared Reduce), Polarized Sun Glasses Viewable in any direction, HD Base T for Long Distance Installalling, Portrait /Landscape Installation Support, Lamp Error Detection, Auto Brightness Control with Ambient Brightness Sensor, Temperature Sensor, RJ45 MDC, Auto Source Switching & Recovery, Clock Battery(80hrs Clock Keeping), Kensington Lock	IP56 Certified for Simple Enclosure Outdoor, Protection Glass(IK-10 Level, Anti Graffiti, Infrared Reduce), Polarized Sun Glasses Viewable in any direction, HD Base T for Long Distance Installalling, Portrait /Landscape Installation Support, Lamp Error Detection, Auto Brightness Control with Ambient Brightness Sensor, Temperature Sensor, RJ45 MDC, FHD 4-PBP, Auto Source Switching & Recovery, Clock Battery(80hrs Clock Keeping)
Feature	Internal Player (Embedded H/W)	Processor	Cortex-A12 1.3GHz Quad Core CPU	Cortex-A12 1.3GHz Quad Core CPU	Cortex-A12 1.3GHz Quad Core CPU	N/A
		On-Chip Cache Memory	L1 (I/D) : 32KB / 32KB L2 (Unified) : 1MB	L1 (I/D) : 32KB / 32KB L2 (Unified) : 1MB	L1 (I/D) : 32KB / 32KB L2 (Unified) : 1MB"	
		Clock Speed	1.3GHz CPU Quad	1.3GHz CPU Quad	1.3GHz CPU Quad	
		Main Memory Interface	2.5GB 3 channel 96bit DDR3-933 (1866MHz)	2.5GB 3 channel 96bit DDR3-933 (1866MHz)	2.5GB 3 channel 96bit DDR3-933 (1866MHz)	
		Graphics	2D & 3D Graphics Engine - Up to 3840x2160p. 32bpp - Supports OpenGL ES	2D & 3D Graphics Engine - Up to 3840x2160p. 32bpp - Supports OpenGL ES	2D & 3D Graphics Engine - Up to 3840x2160p. 32bpp - Supports OpenGL ES	
		Storage (FDM)	8GB (3.75GB Occupied by O/S, 4.25GB Available,)	8GB (3.75GB Occupied by O/S, 4.25GB Available,)	8GB (3.75GB Occupied by O/S, 4.25GB Available,)"	
		Multimedia	Video Decoder - MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC- VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 Audio DSP (Decoder) - AC3 (DD), MPEG, DTS and etc.	Video Decoder - MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC- VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 Audio DSP (Decoder) - AC3 (DD), MPEG, DTS and etc.	Video Decoder - MPEG-1/2/4, H.263, H.264/AVC, UHD H.264/AVC- VC-1, AVS+, HEVC, JPEG, PNG, VP8, VP9 Audio DSP (Decoder) - AC3 (DD), MPEG, DTS and etc.	
		IO Ports	USB 2.0	USB 2.0	USB 2.0	
		Operating System	Tizen 2.4 (VDLinux)	Tizen 2.4 (VDLinux)	Tizen 2.4 (VDLinux)	

MODEL		OH46F	OH55F	OH75F	OH85F
Certification	Safety	CB : IEC60950-1/ EN60950-1 (EN) UL : cUL60950-1 (GO)	CB : IEC60950-1/ EN60950-1 (EN) UL : cUL60950-1 (GO)	CB : IEC60950-1/ EN60950-1 (EN) UL : cUL60950-1 (GO)	CB : IEC60950-1/ EN60950-1 (EN) UL : cUL60950-1 (GO)
	EMC	CE : EN55022:2006+A1:2007 EN55024:1998+A1:2001+ A2:2003 (EN) FCC : Part 15, Subpart B Class A (GO)	CE : EN55022:2006+A1:2007 EN55024:1998+A1:2001+ A2:2003 (EN) FCC : Part 15, Subpart B Class A (GO)	CE : EN55022:2006+A1:2007 EN55024:1998+A1:2001+ A2:2003 (EN) FCC : Part 15, Subpart B Class A (GO)	CE : EN55022:2006+A1:2007 EN55024:1998+A1:2001+ A2:2003 (EN) FCC : Part 15, Subpart B Class A (GO)
	Environment	N/A	N/A	N/A	N/A
Accessories	Included	Quick Setup Guide, Regulatory Guide, Warranty Card, Power Cord, Remote Controller, Batteries	Quick Setup Guide, Regulatory Guide, Warranty Card, Power Cord, Remote Controller, Batteries	Quick Setup Guide, Regulatory Guide, Warranty Card, Power Cord, Remote Controller, Batteries	Quick Setup Guide, Regulatory Guide, Warranty Card, Remote Controller, Batteries
	Optional	Media Player	N/A	N/A	N/A

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SMART SIGNAGE

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