



# SAMSUNG SMART SIGNAGE OUTDOOR DISPLAYS OHF SERIES

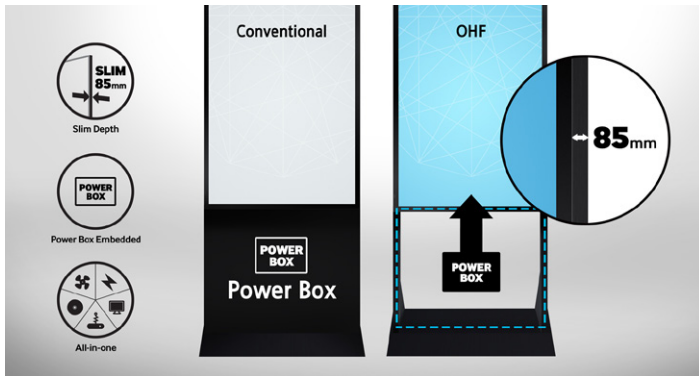
A powerful all-inclusive signage solution for outdoor business messaging

Samsung’s OHF Series SMART Signage delivers an all-inclusive engagement solution that is completely equipped for virtually any outdoor environment. Featuring a slim depth (85 mm.) design, along with the added convenience of an embedded power box, the OHF Series displays ensure durability, flexibility and 24/7 performance even 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
- Clearly showcase featured content through an ultra-slim depth (85 mm.) design
- Validate overall endurance with IK10 certification
- Ensure 24/7, IP56-certified durability in extreme weather environments
- Leverage a filter-less self-cooling system for easy maintenance and reduced TCO
- Deliver excellent visibility in direct sunlight through high 2,500nit brightness and anti-reflection glass
- Achieve convenient content management through an advanced, TIZEN-powered platform

## KEY FEATURES



### AN ALL-ENCOMPASSING ARRAY OF PRE-ASSEMBLED, OUTDOOR-READY FEATURES

The OHF Series displays feature a thinly-designed, all-in-one composition which enables convenient and easy installation. A thorough package equips the displays for long-term performance, and includes ingress protection, anti-reflection technology, vandalism defense and a highly-efficient cooling system, among others. In addition, an integrated power box condenses operational components and accommodates an ultra-slim (85 mm.) frame. Embedded network hub and Wi-Fi functionality further reduce TCO by eliminating the need for a router when linking products, and allow smooth connectivity should the display be exposed to heat or water.



### ROBUST IK10 ENDURANCE

Tempered, IK10-certified\* Magic Glass (5 mm.) provides the OHF Series displays with durable advanced protection against a range of external and environmental factors. Should the protective glass break, a strategically-placed gap between the Magic Glass and LCD panel prevents significant damage and enables efficient repair.

\*The IK European strength test rating uses a 0-10 scale (where 10 indicates the highest possible protection) to measure the degree of resistance against external impact.



### EXCELLENT AND CAPTIVATING VISIBILITY

#### • High Visibility

The OHF Series displays feature innovative Magic Glass, TUV-certified image quality and an Auto Brightness sensor to improve picture quality and optimize message delivery for any viewer. When combined, these features produce high 2,500nit brightness and a 5,000:1 contrast ratio that amplify any type of content\*. These powerful displays also include circular polarizing technology that eliminates display blindness caused by polarized sunglasses.

\*The 2,500nit brightness and 5,000:1 contrast ratio settings are available for all OHF Series models larger than 24 in.

#### • Reflection Prevention

Beyond its basic picture enhancement functionality, the OHF Series' Magic Glass minimizes reflection and enables rich, clear image presentation even when exposed to direct sunlight. Along with their high brightness and contrast ratio, the OHF Series displays' reflectivity ensures continuous visibility and content integrity in any outdoor setting.

## KEY FEATURES



### ENERGY-EFFICIENT PERFORMANCE

Through advanced thermal control functionality and a filter-free design, the OHF Series displays operate at reduced energy consumption. An integrated heat exchanger modifies signage resources depending on the environment, and ultimately cuts costs for operators.



### OPERATE RELIABLY IN VIRTUALLY ANY ENVIRONMENT

Each OHF Series display undergoes rigorous IP56 ingress defense testing to ensure resistance to dust, heat, moisture and other environmental variables that can impede operations. This includes an integrated self-cooling system that keeps the OHF Series displays running in temperatures ranging from -30oC (-22oF) to 50oC (122oF). In turn, operators can feel confident in the displays' ability to perform 24/7, and without requiring expensive external cooling systems or security measures.



### VESA-COMPLIANT FOR SIMPLIFIED MOUNTING

To accommodate VESA regulations, users can add optional brackets\* to their OHF Series package. Beyond ensuring compliance, the brackets offer greater flexibility to mount displays in preferred locations without having to purchase specialized wall mounts.

\*Brackets are only available for the 46- and 55-inch OHF Series display models.



### ROBUST CONTENT CREATION AND MANAGEMENT

Samsung's MagicInfo Player S4 equips OHF Series users with a new graphic engine that boosts overall display performance while ensuring a seamless content transition. The platform also operates as an advanced content management solution that enables more convenient content creation, scheduling and deployment. MagicInfo Player S4 is robust enough to help large organizations monitor and manage multiple OHF Series displays through a single, centralized server.

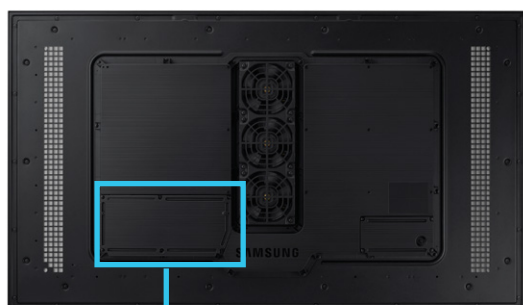


FRONT



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		120Hz E-LED BLU	120Hz E-LED BLU	120Hz D-LED Local Dim. BLU	60Hz D-LED Local Dim. BLU
	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	5,000:1	5,000:1	3000:1
	Viewing Angle(H/V)		178/178	178/178	178/178	178/178
	Response Time(G-to-G)		6ms	6ms	6ms	8ms
	Display Colors		8 bit - 16.7M	8 bit - 16.7M	8 bit - 16.7M	10 bit - 1.07B
	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	30~135kHz (DP), 30~90kHz (HDMI)
	V-Scanning Frequency		96 ~ 123 Hz	96 ~ 123 Hz	96 ~ 123 Hz	30~75Hz (DP), 24~75Hz (HDMI)
	Maximum Pixel Frequency		297MHz	297MHz	297MHz	533.25MHz (DP), 297MHz (HDMI)
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 1.4
		AUDIO	N/A	N/A	N/A	N/A
		USB	USB 2.0 (1)	USB 2.0 (1)	USB 2.0 (1)	USB 2.0 (1) (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), RJ45, 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		AC100 - 240 V~ (+/- 10 %), 50/60 Hz	AC100 - 240 V~ (+/- 10 %), 50/60 Hz	AC100 - 240 V~ (+/- 10 %), 50/60 Hz	AC100 - 240 V (+/- 10 %), 50/60 Hz
	Power Consumption	Max[W/h]	468	554	1,400	1,600
		Typical[W/h]	W/W(EU) 193 US/KOR/Etc. 440 ※ Etc. CHINA, TAIWAN, BRA, CIS	W/W(EU) 267 US/KOR/Etc. 510 ※ Etc. CHINA, TAIWAN, BRA, CIS	W/W(EU) 520 US/KOR/Etc. TBD ※ Etc. CHINA, TAIWAN, BRA, CIS	W/W(EU) 680 US/KOR/Etc. TBD ※ Etc. CHINA, TAIWAN, BRA, CIS
		BTU(Max)	1595.88	1889.14	4774	5,456
		Sleep mode	Less than 0.5W	Less than 0.5W	less than 0.5W	less than 0.5W
		Off mode	Less than 0.5W	Less than 0.5W	less than 0.5W	less than 0.5W

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	1774.8 x 1053.4 x 120 mm	2004 x 1185 x 120	
		Package	1156 x 713 x 200 mm	1358 x 845 x 230 mm	1946 x 1252 x 495 mm	2175 x 1383 x 495	
	Weight (kg)	Set	40.5 kg	52.6kg	142 kg	163kg	
		Package	44.3 kg	58.1kg	188 kg	211kg	
	Mounting Hole		995 x 500 (Basic) 1000 x 400 (VESA Bracket Option)	1186 x 560 (Basic) 1200 x 400 (VESA Bracket Option)	870 x 1118.4 (M8 x 8Hole)	1000 x 1118.4 (M8 x 8Hole)	
	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	59.8 / 59.8 / 59.8 / 59.8 mm	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	
Feature	Key		Power-box Integrated, IP56 Certified, WiFi(Back side usage only), Built-in MagicInfo Player S4, SSSP 4.0	Power-box Integrated, IP56 Certified, WiFi(Back side usage only), Built-in MagicInfo Player S4, SSSP 4.0	"Heat Exchanger, IP56 Certified, Built-in MagicInfo Player S4, SSSP 4.0"	Slim High Brightness, IP56 Certified, 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)	
	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 (Europe) : IEC60950-1/EN60950-1 CCC (China) : GB4943.1-2011 PSB (Singapore) : PS-B+IEC60950-1 NOM (Mexico) : NOM-001-SCFI-1993 IRAM (Argentina) : IRAM+IEC60950-1 SASO (Saudi Arabia) : SASO+IEC60950-1 BIS(India) : IEC60950-1 / IS13252 NOM(Mexico) : NOM-019-SCFI-1998 KC(Korea) : K 60950-1 EAC(Russia) : EAC+IEC60950-1 INMETRO(Brazil) : INMETRO+IEC60950-1 BSMI(Taiwan) : BSMI+IEC60950-1 RCM(Australia) : IEC60950-1/AS/NZS 60950-1 UL(USA) : cUL60950-1 CSA (Canada) : cUL TUV (Germany) : CE NEMKO (Norway) : CE	CB (Europe) : IEC60950-1/EN60950-1 CCC (China) : GB4943.1-2011 PSB (Singapore) : PS-B+IEC60950-1 NOM (Mexico) : NOM-001-SCFI-1993 IRAM (Argentina) : IRAM+IEC60950-1 SASO (Saudi Arabia) : SASO+IEC60950-1 BIS(India) : IEC60950-1 / IS13252 NOM(Mexico) : NOM-019-SCFI-1998 KC(Korea) : K 60950-1 EAC(Russia) : EAC+IEC60950-1 INMETRO(Brazil) : INMETRO+IEC60950-1 BSMI(Taiwan) : BSMI+IEC60950-1 RCM(Australia) : IEC60950-1/AS/NZS 60950-1 UL(USA) : cUL60950-1 CSA (Canada) : cUL TUV (Germany) : CE NEMKO (Norway) : CE	CB (Europe) : IEC60950-1/EN60950-1 CCC (China) : GB4943.1-2011 PSB (Singapore) : PS-B+IEC60950-1 NOM (Mexico) : NOM-001-SCFI-1993 IRAM (Argentina) : IRAM+IEC60950-1 SASO (Saudi Arabia) : SASO+IEC60950-1 BIS(India) : IEC60950-1 / IS13252 NOM(Mexico) : NOM-019-SCFI-1998 KC(Korea) : K 60950-1 EAC(Russia) : EAC+IEC60950-1 INMETRO(Brazil) : INMETRO+IEC60950-1 BSMI(Taiwan) : BSMI+IEC60950-1 RCM(Australia) : IEC60950-1/AS/NZS 60950-1 UL(USA) : cUL60950-1 CSA (Canada) : cUL TUV (Germany) : CE NEMKO (Norway) : CE	CB (Europe) : IEC60950-1/EN60950-1 CCC (China) : GB4943.1-2011 PSB (Singapore) : PS-B+IEC60950-1 NOM (Mexico) : NOM-001-SCFI-1993 IRAM (Argentina) : IRAM+IEC60950-1 SASO (Saudi Arabia) : SASO+IEC60950-1 BIS(India) : IEC60950-1 / IS13252 NOM(Mexico) : NOM-019-SCFI-1998 KC(Korea) : K 60950-1 EAC(Russia) : EAC+IEC60950-1 INMETRO(Brazil) : INMETRO+IEC60950-1 BSMI(Taiwan) : BSMI+IEC60950-1 RCM(Australia) : IEC60950-1/AS/NZS 60950-1 UL(USA) : cUL60950-1 CSA (Canada) : cUL TUV (Germany) : CE NEMKO (Norway) : CE
	EMC	FCC (USA) Part 15, Sub-part B Class A	FCC (USA) Part 15, Sub-part B Class A	FCC (USA) Part 15, Sub-part B Class A	FCC (USA) Part 15, Sub-part B Class A
		CE (Europe) : EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003 VCCI (Japan) : VCCI V-3 /2010.04 Class A KCC/EK (Korea) : KN22 / 24 BSMI (Taiwan) : CNS13438 (ITE EMI) Class A / CNS13439 (AV EMI) / CNS14409 (AV EMS) / CNS14972 (Digital) C-Tick (Australia) : AS/NZS CISPR22:2009 CCC(China) :GB9254-2008 GB17625.1-2012 GOST(Russia/CIS) : GOST R 51317 Series, GOST 22505-97 EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003	CE (Europe) : EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003 VCCI (Japan) : VCCI V-3 /2010.04 Class A KCC/EK (Korea) : KN22 / 24 BSMI (Taiwan) : CNS13438 (ITE EMI) Class A / CNS13439 (AV EMI) / CNS14409 (AV EMS) / CNS14972 (Digital) C-Tick (Australia) : AS/NZS CISPR22:2009 CCC(China) :GB9254-2008 GB17625.1-2012 GOST(Russia/CIS) : GOST R 51317 Series, GOST 22505-97 EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003	CE (Europe) : EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003 VCCI (Japan) : VCCI V-3 /2010.04 Class A KCC/EK (Korea) : KN22 / 24 BSMI (Taiwan) : CNS13438 (ITE EMI) Class A / CNS13439 (AV EMI) / CNS14409 (AV EMS) / CNS14972 (Digital) C-Tick (Australia) : AS/NZS CISPR22:2009 CCC(China) :GB9254-2008 GB17625.1-2012 GOST(Russia/CIS) : GOST R 51317 Series, GOST 22505-97 EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003	CE (Europe) : EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003 VCCI (Japan) : VCCI V-3 /2010.04 Class A KCC/EK (Korea) : KN22 / 24 BSMI (Taiwan) : CNS13438 (ITE EMI) Class A / CNS13439 (AV EMI) / CNS14409 (AV EMS) / CNS14972 (Digital) C-Tick (Australia) : AS/NZS CISPR22:2009 CCC(China) :GB9254-2008 GB17625.1-2012 GOST(Russia/CIS) : GOST R 51317 Series, GOST 22505-97 EN55022:2006+A1:2007 EN55024:1998+A1:2001+A2:2003
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, 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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2017-07



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