

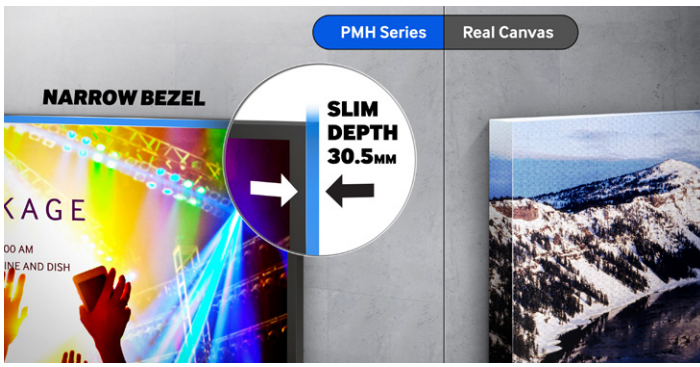


# SAMSUNG SMART SIGNAGE PMH SERIES

Amplify business content efficiently through captivating TIZEN-powered displays

## HIGHLIGHTS

- Accommodate any business setting through slim design
- Deploy advanced web applications to effectively manage content by using SSSP 4.0 powered by TIZEN
- Effectively handle all environmental conditions and dusty situations thanks to IP5x-certified displays
- Realize complete and convenient control by navigating display hub with Central IR
- Discover heightened image visibility and information readability with non-glare panels



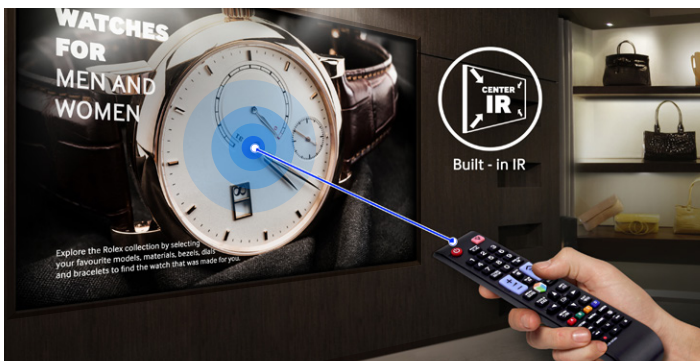
## CLEAR AND CONSISTENT CONTENT DELIVERY

Samsung's TIZEN-powered PMH Series premium displays achieve peak performance all while maintaining a stylish and captivating design. The PMH Series displays leverage elevated brightness and refined image sharpness to ensure a consistently clear presentation even in settings with variable lighting. Additionally, the IP5x-certified PMH Series displays achieve robust, 24/7 durability for dependable and uninterrupted operations. As a result, businesses can feel confident that their messages will be delivered exactly as intended anywhere and at any time.



## SSSP4.0\_EMBEDDED MEDIA PLAYER POWERED BY TIZEN™

PMH series that supports SSSP 4.0 allows for a stronger, faster and more stable performance than its previous models. Transcending past hardware performance, the new SSSP 4.0 enables CMS partners to develop and deploy advanced web applications which can help to effectively manage content and SMART Signage for their customers.



## CONVENIENT DISPLAY CONTROL THROUGH A CENTRALIZED RECEIVER

The standalone displays' integrated centralized infrared receiver (IR) ensures easier and more flexible user control. All models can receive the IR signal on individual panels via Central IR. Through tailored installation or mounting, users can navigate the IR functionality from various locations, further augmenting uninterrupted performance.



## IP5X CERTIFIED DISPLAY

PMH standalone displays are IP5x certified, signifying their dust-resistant design and ability to withstand a range of environmental conditions. The certification alleviates concerns about dust accumulating on displays installed on subway trains or on external platforms. Customers can conveniently use this IP5x certified display without needing to prepare additional enclosure in dusty places. Uninterrupted, 24/7 content delivery is always assured regardless of surrounding natural or interactive conditions.



## POWERFUL PERFORMANCE AND SIMPLE USABILITY

- 1) Enhanced 3D Graphic Engine** : The display supports 3 movies playing concurrently on one screen with enhanced 3D graphic performance
- 2) PC-less Touch Solution** : Touch performance is fully realized due to the TIZEN OS that bypasses the need for a PC.
- 3) Enhanced Security** : A holistic security architecture allows for powerful security through 3 layers of supplementation.
- 4) Easy Development** : The ability to develop the solution further is facilitated, thanks to development tools such as SW Development Kit or Remote Web Inspector.
- 5) Simple Usability** : Usability is attained due to a touch-friendly UI while web browsers are able to display a homepage without the need to develop a web app.



## BRILLIANT, GLARE-FREE VISUAL QUALITY

Equipped with a non-glare frontal panel, the PMH Series displays reduce natural and ambient light interference to ensure continuous readability in any location. Image visibility and information readability are deemed to be very high, because it is less reflective under light or sunlight, which poses no issues when used with QSR menu boards, or airport flight schedule boards with ample natural light.



FRONT



BACK

CONNECTIVITIES



PM43H / PM49H / PM55H

- 1. USB 1
- 2. USB 2
- 3. RS232C IN
- 4. RS232C OUT
- 5. AUDIO IN
- 6. AUDIO OUT
- 7. HDMI 1
- 8. HDMI 2
- 9. DVI/PC/MAGICINFO IN
- 10. DP IN
- 11. DP OUT
- 12. ANT IN
- 13. RJ45

\* RF tuner included in PMH (43"-55") for North America model only.

MODEL			PM43H	PM49H	PM55H
Panel	Diagonal Size	Class	43	49	55
		Measured	42.5" / 107.9cm	48.5" / 123.2cm	54.6" / 138.7cm
	Type		60Hz E-LED BLU	60Hz E-LED BLU	60Hz E-LED BLU
	Resolution		1920x1080 (16:9)	1920x1080 (16:9)	1920x1080 (16:9)
	Pixel Pitch(mm)		0.163(H) x 0.49(V)	0.187(H) x 0.56(V)	0.21(H) x 0.63(V)
	Active Display Area(mm)		940.89(H) x 529.25(V)	1073.78(H) x 604.00(V)	1209.6(H) x 680.4(V)
	Brightness(Typ.)		500nit	500nit	500nit
	Contrast Ratio(Typ.)		3000:1	4000:1	4000:1
	Viewing Angle(H/V)		178:178	178:178	178:178
	Response Time(G-to-G)		8ms	8ms	6ms
	Display Colors		10bit Dithering - 1.07Billion	10bit Dithering - 1.07Billion	10bit Dithering - 1.07Billion
	Color Gamut		72%	72%	72%
	Operation Hour		24/7	24/7	24/7
	Haze		44%	25%	25%
Display	Dynamic C/R		Mega	Mega	Mega
	H-Scanning Frequency		30 ~ 81kHz	30 ~ 81kHz	30 ~ 81kHz
	V-Scanning Frequency		48 ~ 75Hz	48 ~ 75Hz	48 ~ 75Hz
	Maximum Pixel Frequency		148.5MHz	148.5MHz	148.5MHz
Sound	Speaker Type		Built in Speaker(10W + 10W)	Built in Speaker(10W + 10W)	Built in Speaker(10W + 10W)
Connectivity	INPUT	RGB	DVI-I(D-Sub Common), Display Port 1.2 (2)	DVI-I(D-Sub Common), Display Port 1.2 (2)	DVI-I(D-Sub Common), Display Port 1.2 (2)
		VIDEO	HDMI 2.0 (2) / HDCP 2.2	HDMI 2.0 (2) / HDCP 2.2	HDMI 2.0 (2) / HDCP 2.2
		HDCP	HDCP 2.2	HDCP 2.2	HDCP 2.2
		AUDIO	Stereo mini Jack, RGB/DVI/HDMI	Stereo mini Jack, RGB/DVI/HDMI	Stereo mini Jack, RGB/DVI/HDMI
		USB	USB 2.0 x 2	USB 2.0 x 2	USB 2.0 x 2
	OUTPUT	RGB	DP1.2(Loop-out)	DP1.2(Loop-out)	DP1.2(Loop-out)
		VIDEO	N/A	N/A	N/A
		AUDIO	Stereo mini Jack	Stereo mini Jack	Stereo mini Jack
		Power Out	N/A	N/A	N/A
		USB	N/A	N/A	N/A
	EXTERNAL CONTROL		RS232C(in/out) thru Stereo Jack, RJ45	RS232C(in/out) thru Stereo Jack, RJ45	RS232C(in/out) thru Stereo Jack, RJ45
	EXTERNAL SENSOR		N/A	N/A	N/A
	Tuner		Yes(only for NA)	Yes(only for NA)	Yes(only for NA)
Power	Type		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
	Power Consumption	Max[W/h]	154	165	187
		Typical[W/h]	EU123, US 66, WW123	EU98, US 47, WW 98	EU115, US 55, WW115
		BTU(Max)	525.14	562.65	637.67
		Sleep mode	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	
Mechanical Spec	Dimension (mm)	Set	964.0 X 554.3 X 30.5	1096.9 X 629.1 X 30.5	1232.4 X 701.2 X 30.5
		Package	1077 x 661 x 154	1214 x 721 x 157	1383 x 819 x 160
	Weight (kg)	Set	9.5	13.2	16.5
		Package	13.3	17.5	22.1
	VESA Mount		200x200	400x400	400x400
	Protection Glass		N/A	N/A	N/A
	Stand Type		Foot Stand (Optional)	Foot Stand (Optional)	Foot Stand (Optional)
Bezel Width (Top/Side/Bot) (mm)		9.0/9.0/11.0	9.0/9.0/11.0	9.0/9.0/11.0	
Operation	Operating Temperature		0°C~ 40°C	0°C~ 40°C	0°C~ 40°C
	Humidity		10~80%	10~80%	10~80%

MODEL		PM43H	PM49H	PM55H	
Feature	Key	Slim & Light Signage with Built-in MagicInfo S4, SSSP 4.0	Slim & Light Signage with Built-in MagicInfo S4, SSSP 4.0	Slim & Light Signage with Built-in MagicInfo S4, SSSP 4.0	
	Special	H/W	Non Glare Panel, Temperature Sensor, Video Wall(15x15(OSD)), Video Wall Daisy Chain(16), Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W x 2), WiFi Module Embedded, Tuner(only for NA), IP5x, Center IR	Non Glare Panel, Temperature Sensor, Video Wall(15x15(OSD)), Video Wall Daisy Chain(16), Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W x 2), WiFi Module Embedded, Tuner(only for NA), IP5x, Center IR	Non Glare Panel, Temperature Sensor, Video Wall(15x15(OSD)), Video Wall Daisy Chain(16), Pivot Display, Clock Battery(168hrs Clock Keeping), Built in Speaker(10W x 2), WiFi Module Embedded, Tuner(only for NA), IP5x, Center IR
		S/W	Magic Clone(to USB), Auto Source Switching & Recovery, RS232C/RJ45 MDC, Plug and Play, PIP/PBP, Image Rotation, Button Lock, DP1.2 Digital Daisy Chain(HDCP Support), Firmware Update by Network, New Home Screen, PC-less VideoWall(external source only), Multi Channel, Mobile Control, Event Schedule, Backup Player	Magic Clone(to USB), Auto Source Switching & Recovery, RS232C/RJ45 MDC, Plug and Play, PIP/PBP, Image Rotation, Button Lock, DP1.2 Digital Daisy Chain(HDCP Support), Firmware Update by Network, New Home Screen, PC-less VideoWall(external source only), Multi Channel, Mobile Control, Event Schedule, Backup Player	Magic Clone(to USB), Auto Source Switching & Recovery, RS232C/RJ45 MDC, Plug and Play, PIP/PBP, Image Rotation, Button Lock, DP1.2 Digital Daisy Chain(HDCP Support), Firmware Update by Network, New Home Screen, PC-less VideoWall(external source only), Multi Channel, Mobile Control, Event Schedule, Backup Player
	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
		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		PM43H	PM49H	PM55H	
Certification	Safety	CB (Europe) : IEC60950-1/EN60950-1 CCC (China) : GB4943.1-2011 PSB (Singapore ) : PSB+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) : Tuner: NOM-001-SCFI-1993 Tunerless : 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 ) : PSB+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) : Tuner: NOM-001-SCFI-1993 Tunerless : 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 ) : PSB+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) : Tuner: NOM-001-SCFI-1993 Tunerless : 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, Subpart 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) : Tuner : KN13 / KN20 Tunerless : KN22 / KN24 BSMI (Taiwan) : CNS13438 (ITE EMI) Class A / CNS13439 (AV EMI) / CNS14409 (AV EMS) / CNS14972 (Digital) C-Tick (Australia) : AS/NZS CIS-PR22:2009 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	FCC (USA) Part 15, Subpart 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) : Tuner : KN13 / KN20 Tunerless : KN22 / KN24 BSMI (Taiwan) : CNS13438 (ITE EMI) Class A / CNS13439 (AV EMI) / CNS14409 (AV EMS) / CNS14972 (Digital) C-Tick (Australia) : AS/NZS CIS-PR22:2009 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	FCC (USA) Part 15, Subpart 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) : Tuner : KN13 / KN20 Tunerless : KN22 / KN24 BSMI (Taiwan) : CNS13438 (ITE EMI) Class A / CNS13439 (AV EMI) / CNS14409 (AV EMS) / CNS14972 (Digital) C-Tick (Australia) : AS/NZS CIS-PR22:2009 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	ENERGY STAR 7.0 (USA)	ENERGY STAR 7.0 (USA)	
Accessories	Included	Quick Setup Guide, Regulatory Guide , Warranty Card, Power Cord, Remote Controller, Batteries, RS232C(IN) adapter, Cover Jack	Quick Setup Guide, Regulatory Guide , Warranty Card, Power Cord, Remote Controller, Batteries, RS232C(IN) adapter, Cover Jack	Quick Setup Guide, Regulatory Guide , Warranty Card, Power Cord, Remote Controller, Batteries, RS232C(IN) adapter, Cover Jack	
	Optional	Stand	STN-L3240E	STN-L4655E	STN-L4655E
		Mount	WMN4070SD	WMN4270SD	WMN4270SD
		Specialty	CML400XJ	CML450H	CML450H
	Media Player	SBB	SBB	SBB	

**NOTE.**

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## SMART SIGNAGE

For more information about Samsung SMART Signage, visit [www.samsung.com/business](http://www.samsung.com/business) or [www.samsung.com/displaysolutions](http://www.samsung.com/displaysolutions)

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2017-04



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