Smart Signage User Manual (By Model)

This manual provides information about your Smart Signage including supported types and product specifications per model.

OM75R

The color and the appearance may differ depending on the product, and the content in the manual is subject to change without prior notice to improve the performance.

Table of contents

Chapter 01
Preparations

Checking the Components

✎ Contact the vendor where you purchased the product if any components are missing.

✎ The appearance of the components may differ from the images shown.

✎ A stand is not provided with the product. To install a stand, you can purchase one separately.

✎ Use either the back-side magnet or the double-sided tape depending on where you want to attach the external ambient light sensor. The warranty for adhesiveness of the double-sided tape applies to first-time-use only.

✎ The external ambient light sensor is marked with the label on the sensor cable.
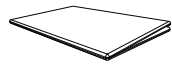
Quick Setup Guide

Warranty card
(Not available in some locations)

Regulatory guide

Power cord

Batteries (AAA x 2)
(Not available in some locations)

Remote Control

External ambient light sensor

External IR cable

Ports

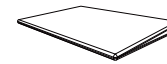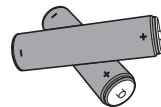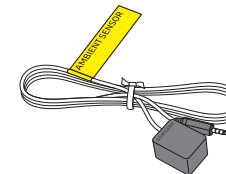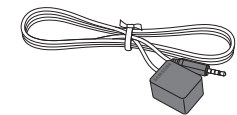| RS232C OUT / IN |
| AUDIO OUT |
| IR IN |
| AMBIENT SENSOR IN |
| USB ⟵⟶ |
| LAN IN |
| HDMI 1 IN |
| HDMI 2 IN (DAISY CHAIN IN) |
| DP IN (DAISY CHAIN IN) |
| HDMI OUT (DAISY CHAIN OUT) |

IR

Stick the receiver of an external IR cable to this location when the cable is not used or the product is moved.

Air outlet

Air inlet

POWER
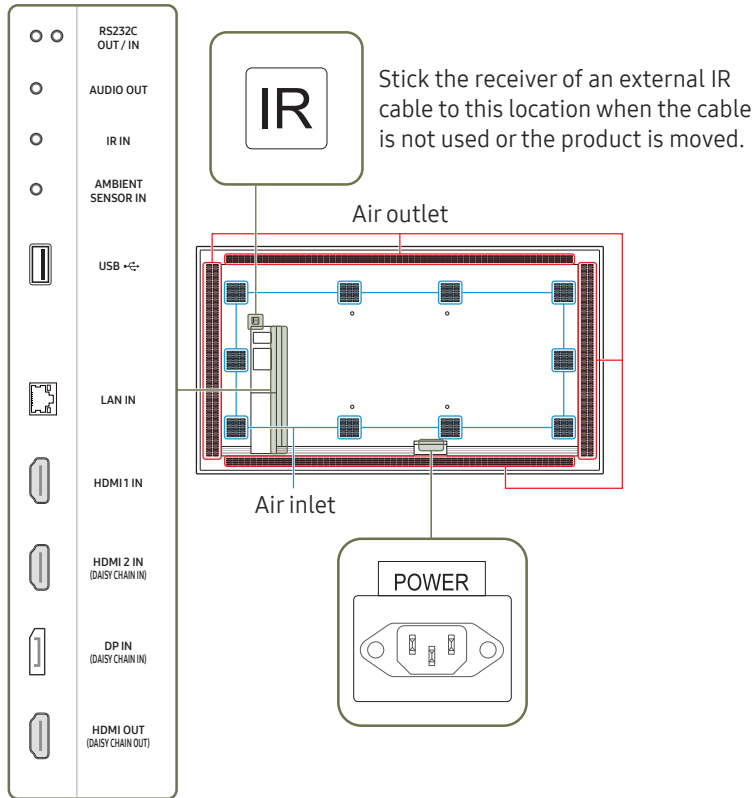
✎ The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.

Port	Description
RS232C OUT	Connects to multiple products using a serial cable. ✎ The serial cable is not provided with the product. Contact your vendor for purchase.
RS232C IN	Connects to MDC using an RS232C adapter.
AUDIO OUT	Outputs sound to an audio device via an audio cable.
IR IN	Connects to an external IR cable that receives signals from the remote control.
AMBIENT SENSOR IN	Used to supply power to the external sensor board and to receive signals from the ambient light sensor.
USB ⟵⟶	Connect to a USB memory device.
LAN IN	Connects to MDC and the Internet using a LAN cable. (10/100 Mbps)
HDMI 1 IN	• Connects to a source device using a HDMI cable or HDMI-DVI cable.
HDMI 2 IN (DAISY CHAIN IN)	• Connects to another product using a HDMI cable.
DP IN (DAISY CHAIN IN)	Connects to a PC using a DP cable.
HDMI OUT (DAISY CHAIN OUT)	Connects to another product using a HDMI cable.

Before Installing the Product (Installation Guide)

To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

- Ensure that an authorized installation company installs the wall mount.
- Otherwise, it may fall and cause personal injury.
- Make sure to install the specified wall mount.

Tilting Angle and Rotation

✎ Contact Samsung Customer Service Center for further details.

- The product can be tilted at a maximum angle of 15° from a perpendicular wall surface.
- To use the product in portrait orientation, rotate it clockwise.
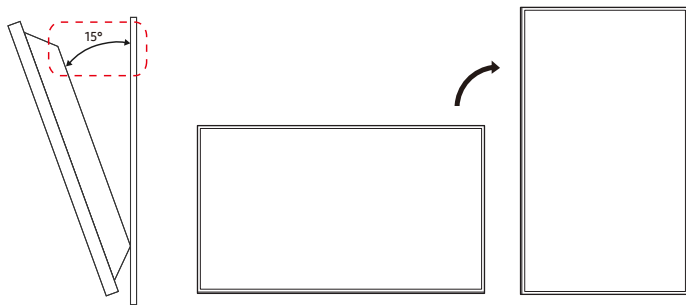
✎ Do not use this model installed on a ceiling, floor, or table.
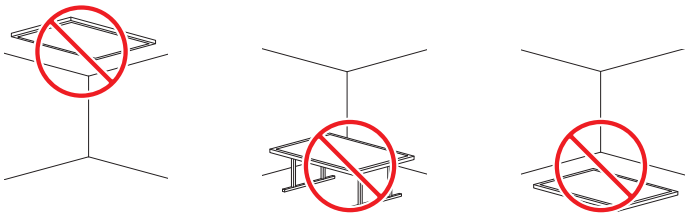
Ventilation

✎ Contact Samsung Customer Service Center for further details.

Installation on a Perpendicular Wall

A Minimum 100 mm

B Ambient temperature: Under 30 °C (If affected by sun light)
Ambient temperature: Under 40 °C (If not affected by sun light)

✎ When mounting to a wall surface, the clearance between the product and the wall should be at least 100 mm at all times. The ambient temperature should not be exceed 30 °C if it is affected by sun light. The ambient temperature should not be exceed 40 °C if it is not affected by sun light.
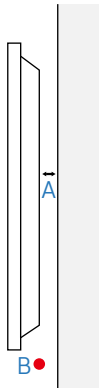
Installing the Wall Mount

Installing the Wall Mount

- The wall mount kit (sold separately) allows you to mount the product on the wall.
- The provided image is only for reference. For detailed information on installing the wall mount, see instructions provided with the wall mount.
- We recommend you contact a technician for assistance when installing the wall mount bracket.
- Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you select to install the wall mount on your own.

Wall Mount Kit Specifications (VESA)

✎ Install your wall mount on a solid wall perpendicular to the floor. To install the product on the other wall area, contact the nearest agency.
If you install the product on a slanted wall, it may fall and result in severe personal injury.

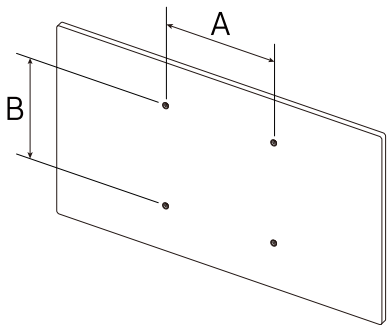- Samsung wall mount kits contain a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws that are longer than the standard length or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the product.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not mount the product at more than a 15 degree tilt.
- Always have at least two people mount the product on a wall.
- Standard dimensions for wall mount kits are shown in the table below.

Model Name	VESA screw hole specs (A * B) in millimeters	Standard Screw	Quantity
OM75R	400 × 400	M8	4

✎ Do not install your Wall Mount Kit while your product is turned on. It may result in personal injury due to electric shock.

Chapter 02
Specifications

General

Horizontal Frequency

The time required to scan a single line from the left to the right side of the screen is called a horizontal cycle. The reciprocal number of a horizontal cycle is called horizontal frequency. Horizontal frequency is measured in kHz.

Vertical Frequency

The product displays a single image multiple times per second (like a fluorescent light) to display what the viewer sees. The rate of a single image being displayed repeatedly per second is called vertical frequency or refresh rate. Vertical frequency is measured in Hz.

Model Name		OM75R
Panel	Size	75 CLASS (74.5 inches / 189.3 cm)
	Display area	1650.24 mm (H) x 928.26 mm (V)
Synchronization	Horizontal Frequency	15 - 81 kHz (HDMI), 30 - 135 kHz (DisplayPort)
	Vertical Frequency	24 - 75 Hz (HDMI), 30 - 75 Hz (DisplayPort)
Resolution	Optimum resolution	3840 x 2160 @ 60 Hz
	Maximum resolution	3840 x 2160 @ 60 Hz
Power Supply		AC100-240V~ 50/60Hz Refer to the label at the back of the product as the standard voltage can vary in different countries.
Environmental considerations	Operating	Temperature: 32 °F – 104 °F (0 °C – 40 °C) * If installed under sunlight, operating temp is 32 °F – 86 °F (0 °C – 30 °C) * For installing the enclosure, keep the internal temperature within operation temperature. Humidity: 10% – 80%, non-condensing
	Storage	Temperature: -4 °F – 122 °F (-20 °C – 50 °C) Humidity: 5% – 95%, non-condensing * Applicable before the product package is unpacked.

✎ Plug-and-Play

This monitor can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the monitor and PC system optimizes the monitor settings. Monitor installation takes place automatically. However, you can customize the installation settings if desired.

✎ Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may appear brighter or darker on the panel. This does not affect product performance.

✎ This product can be set to only one resolution for each screen size to obtain the optimum picture quality due to the nature of the panel. Using a resolution other than the specified resolution may degrade the picture quality. To avoid this, it is recommended that you select the optimum resolution specified for your product.

✎ For detailed device specifications, visit the Samsung Electronics website.

Preset Timing Modes

The screen will automatically be adjusted if a signal that belongs to the following standard signal modes is transmitted from your PC. If the signal transmitted from the PC does not belong to the standard signal modes, the screen may be blank. In such a case, change the settings according to the following table by referring to the graphics card user manual.

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)	Port	
					DP IN	HDMI IN
IBM, 720 x 400	31.469	70.087	28.322	-/+	O	O
VESA DMT, 640 x 480	31.469	59.940	25.175	-/-	O	O
MAC, 640 x 480	35.000	66.667	30.240	-/-	O	O
VESA DMT, 640 x 480	37.861	72.809	31.500	-/-	O	O
VESA DMT, 640 x 480	37.500	75.000	31.500	-/-	O	O
VESA DMT, 800 x 600	37.879	60.317	40.000	+/+	O	O
VESA DMT, 800 x 600	48.077	72.188	50.000	+/+	O	O
VESA DMT, 800 x 600	46.875	75.000	49.500	+/+	O	O
MAC, 832 x 624	49.726	74.551	57.284	-/-	O	O
VESA DMT, 1024 x 768	48.363	60.004	65.000	-/-	O	O
VESA DMT, 1024 x 768	56.476	70.069	75.000	-/-	O	O
VESA DMT, 1024 x 768	60.023	75.029	78.750	+/+	O	O
VESA DMT, 1152 x 864	67.500	75.000	108.000	+/+	O	O
MAC, 1152 x 870	68.681	75.062	100.000	-/-	O	O
VESA DMT, 1280 x 720	45.000	60.000	74.250	+/+	O	O
VESA DMT, 1280 x 800	49.702	59.810	83.500	-/+	O	O
VESA DMT, 1280 x 1024	63.981	60.020	108.000	+/+	O	O
VESA DMT, 1280 x 1024	79.976	75.025	135.000	+/+	O	O
VESA DMT, 1366 x 768	47.712	59.790	85.500	+/+	O	O
VESA DMT, 1440 x 900	55.935	59.887	106.500	-/+	O	O
VESA DMT, 1600 x 900RB	60.000	60.000	108.000	+/+	O	O
VESA DMT, 1680 x 1050	65.290	59.954	146.250	-/+	O	O

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)	Port	
					DP IN	HDMI IN
VESA DMT, 1920 x 1080	67.500	60.000	148.500	+/+	O	O
VESA DMT, 2560 x 1440RB	88.787	59.951	241.500	+/-	O	-
VESA CVT, 3840 x 2160RB	110.500	49.977	442.000	+/-	O	-
VESA CVT, 3840 x 2160RB	133.313	59.997	533.250	+/-	O	-
CEA-861, 720(1440) x 576i	15.625	50.000	27.000	-/-	-	O
CEA-861, 720(1440) x 480i	15.734	59.940	27.000	-/-	-	O
CEA-861, 720 x 576	31.250	50.000	27.000	-/-	O	O
CEA-861, 720 x 480	31.469	59.940	27.000	-/-	O	O
CEA-861, 1280 x 720	37.500	50.000	74.250	+/+	O	O
CEA-861, 1280 x 720	45.000	60.000	74.250	+/+	O	O
CEA-861, 1920 x 1080i	28.125	50.000	74.250	+/+	-	O
CEA-861, 1920 x 1080i	33.750	60.000	74.250	+/+	-	O
CEA-861, 1920 x 1080	27.000	24.000	74.250	+/+	-	O
CEA-861, 1920 x 1080	28.125	25.000	74.250	+/+	-	O
CEA-861, 1920 x 1080	33.750	30.000	74.250	+/+	-	O
CEA-861, 1920 x 1080	56.250	50.000	148.500	+/+	O	O
CEA-861, 1920 x 1080	67.500	60.000	148.500	+/+	O	O
CEA-861, 3840 x 2160	54.000	24.000	297.000	+/+	-	O
CEA-861, 3840 x 2160	56.250	25.000	297.000	+/+	-	O
CEA-861, 3840 x 2160	67.500	30.000	297.000	+/+	O	O
CEA-861, 3840 x 2160	112.500	50.000	594.000	+/+	O	-
CEA-861, 3840 x 2160	135.000	60.000	594.000	+/+	O	-
CEA-861, 4096 x 2160	54.000	24.000	297.000	+/+	-	O
CEA-861, 4096 x 2160	56.250	25.000	297.000	+/+	-	O
CEA-861, 4096 x 2160	67.500	30.000	297.000	+/+	-	O

Chapter 03
Appendix

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