H Series User Manual

for models AVH-6520, AVH-7520 & AVH-8620

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Safety Warning

Before operating, please read this manual thoroughly and keep it for future reference.

Images shown in this manual are indicative only. There may be differences between the pictures and the actual product.

Placement

DO NOT put heavy objects on top of the unit.

DO NOT put the unit near appliances that generate magnetic fields.

DO NOT expose the unit to direct sunlight and other sources of heat.

DO NOT place the unit on an unstable cart, stand, tripod, bracket, table, or shelf.

DO NOT put any liquid near or on the unit and ensure that you do not spill any liquid inside the unit.

Power Supply

Please keep the power cable from physical or mechanical damage.

Please check and ensure the AC source is connected to the ground.

The power cable with this device is made exclusively for this device only.

Please unplug the power supply if there is a thunder or lightning storm.

Check that the unit's operating voltage is identical to your local power supply.

Please use the original power cable from the accessory bag; don't modify or lengthen it.

Please unplug the power supply when nobody is home, or the unit will be idle for too long.

LED Screen

Unplug the power cable before cleaning.

Clean the screen with a soft, dustless, and dry cloth.

For deep cleaning, please contact an authorized service center.

Never use water or spray-type detergent to clean the unit.

Never use sharp objects to replace the touch pen.

Do not display high-brightness images for too long to preserve the panel's lifetime and performance.

TEMPERATURE

Normal operating temperature is 0 ~ 40℃.

Do not place the unit near or over a radiator or a heater.

If your unit is suddenly moved from a cold to a warm place, please unplug the power cable and do not turn it on for at least 2 hours. This ensures the moisture inside the unit is evaporated.

HUMIDITY

Do not expose the unit to rain or place it in a humid area.

Please make sure your indoor environment is dry and cool. Normal operating humidity is 10%~90%RH.

VENTILATION

Please place the unit in a well-ventilated area so the heat from the device can be released easily.

Ensure that the unit has enough space for ventilation. Space requirement: left, right, and back >10cm, top> 20cm.

EARPHONE

Before using an earphone, please turn down the volume in advance.

Using an earphone to listen to loud sounds for a long time might affect hearing.

STANDBY

It will enter standby mode if you do not turn off the unit after pressing the standby key.

BATTERY

Please ensure you properly dispose of or recycle the battery after using it.

Please keep the battery away from kids, and don't throw the battery into a fire.

If you replace the battery incorrectly, there is a risk of fire or explosion.

NOTES FOR CLEANING

There are vents on the back cover; please do not use liquid or spray directly on the screen during cleaning.

POWER SWITCH STATUS SIGNS

"I" means power on, "O" means power off.

NOTES FOR MAINTENANCE

This machine can only be maintained by a certified engineer.

GRAPHIC CONVENTIONS

The following symbols may appear throughout this manual to emphasize key points. Keep these in mind to avoid problems with your display or personal injury.

TIP — Highlights helpful guidelines and best practices for using certain features.

NOTE — Provides supplemental information and emphasizes text of special significance.

CAUTION — Alerts that certain actions may degrade the display's performance or cause a malfunction.

WARNING — Alerts that a given action may damage equipment or cause personal injury.

DANGER — Alerts that a given action may cause a serious personal injury or death.

Specifications

	AVH-6520	AVH-7520	AVH-8620

Diagonal Size (Inches)	65"	75"	86"
Backlight	Direct-lit LED		
Aspect Ratio	16:9		
Resolution	3840 x 2160 @ 60Hz		
Response Time	6.5/6.5/8 ms		
Brightness	400 (cd/m2) w/ bonded glass		
Contrast Ratio	5000:1		
Viewing Angle	178°/178°		
Supported Colors	10 Bit 1.07 billion Color		
Display Orientation	Landscape		
Touch System			
Touch	Up to 40 points Avocor Intelligent Touch + 1 stylus		
Glass	Zero parallax, 2mm optically bonded, anti-glare, anti-fingerprint		
Interface	2 x USB-B 2.0, 1 x Type C		
Connectivity			
Top inputs	1 x USB-A 3.0 hub		
Side inputs	1 x Type-C (100W PD w/o OPS), 4 x HDMI 2.0, HDCP 2.3, HDCP 2.3,3 x USB-B 2.0, 1 x DisplayPort 1.4, 2 x USB-A 3.0 hub, 1 x USB-A service port, HDMI 2.0 out		
Bottom inputs	None		
Audio	1x 3.5mm Audio Out, 1x Optical (SPDIF)		
Control	1 x RS-232, 2 x LAN Ethernet (RJ-45)		
WiFi	Yes		
Supported Operating System	Windows 8+, Mac OSX**, Linux**		
Audio			
Built-in Speakers	2x 16W – spatial-stereo downward facing		
Display Functions			
Auto-Source Detection	Yes		
Source Preview	UiQ		
Image Settings	UiQ, FUSE		
Physical Specifications			
Product Dimensions (L X W X H)	1493 x 80 x 877mm 58.78" x 3.15" x 35.53"	1714 x 80 x 1002mm 67.48" x 3.15" x 39.45"	1962 x 80 x 1141mm 77.24" x 3.15" x 44.92"
Bezel Dimensions	3mm all sides		
Shipping Dimensions	1612×220×1034mm 63.46" x 8.66" x 40.71"	1863×225×1130mm 73.35" x 8.86" x 44.49"	2110×225×1270mm 83.07" x 8.86" x 50"
Weight	Net: 37 kgs	81.6 lbs Gross: 49 kgs	108 lbs	Net: 48 kgs	105.8 lbs Gross: 69 kgs	152 lbs	Net: 61 kgs	134.5 lbs Gross: 81kgs	178.6 lbs
Wall Mount (VESA)	600 x 400mm included	800 x 400mm included	800 x 600mm included
IPC Mount	100 x 100 mm + 80 x 80mm		
Handles	2		
Sensors			
Type	Presence, ambient light		

Presence Sensor	Yes, max 4 range		
Power			
Max Power Consumption	227W	257W	390W
Environmental			
Operating Temperature	0°C ~ 40°C / 32° F ~ 104° F		
Storage Temperature	-20° C ~ 60° C / -4° F ~ 140° F		
Humidity	20% ~ 85%		
Warranty			
Global	3-year warranty		

PREPARE TO INSTALL
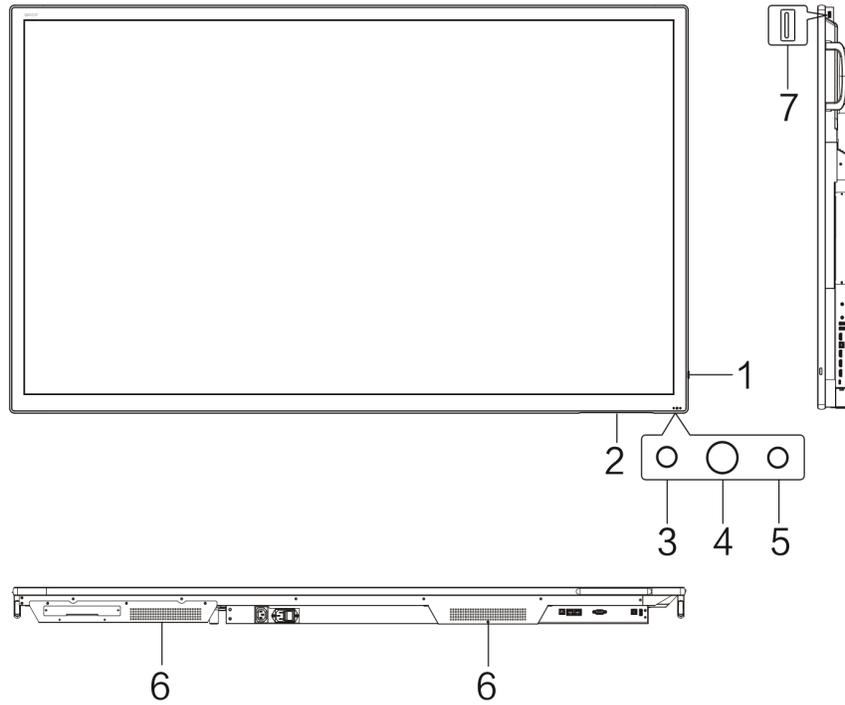
#	Items
1	⏻ : Tap to enter energy-saving mode and hold it for at least 2 seconds to enter standby mode.
2	Magnetic Zone: Area for placing the absorptive magnetic pen.
3	LED indicator
4	PIR: The screen will light up automatically when a person is detected in front of the screen.
5	Light Sensor: Sense ambient light to adjust the backlight for appropriate brightness. It can be switched in the menu.
6	Loudspeaker
7	USB 3.0

TERMINAL INTERFACE
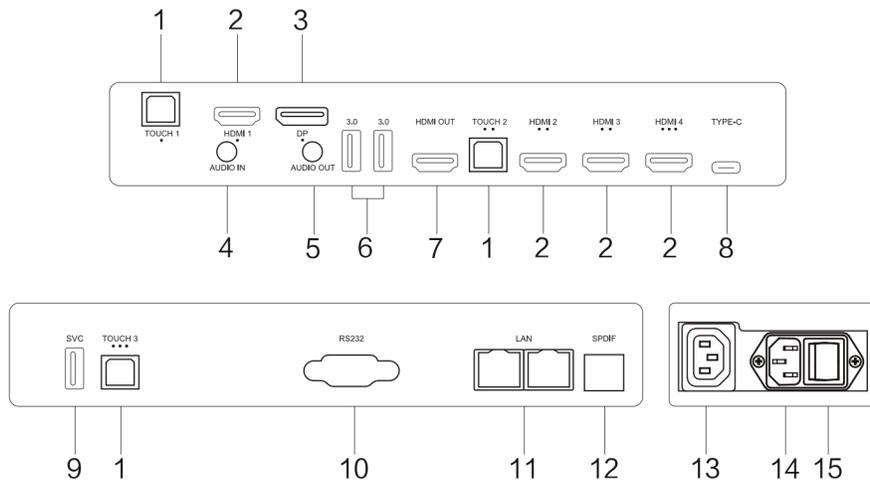
#	Items	Function description
1	TOUCH1/2/3	Touch signal output to the external computer
2	HDMI 1/2/3/4	High-definition multimedia interface signal input, connect to devices with HDMI output interface (a personal computer with HDMI output, set-top box, or another video device)
3	DP	Connected to devices with Displayport output function.
4	AUDIO IN	External audio sources input (It is generally used as the sound input of the VGA interface)
5	AUDIO OUT	Audio output to the external speaker
6	3.0	Connect USB devices such as mobile hard disk, U disk, USB keyboard, mouse, USB drives, etc.
7	HDMI OUT	Connected to the devices with HDMI input function (monitor)
8	TYPE-C	It supports charging, data transmission, audio and video output interface extension, etc. Note: The maximum rated power of the USB Type-C port of this product is 100W. When using this port to charge electronic devices, the charging power of the electronic device cannot exceed the rated power of this port. If the electronic device's charging power exceeds this port's rated charging power, please Do not directly use this port for charging.
9	SVC	Connect USB devices such as mobile hard disk, U disk, USB keyboard, mouse, USB drives, etc.
10	RS232	Serial interface, used for mutual transfer of data between devices
11	LAN	Connected to Ethernet

12	SPDIF	Carry multichannel sound via optical signals.
13	AC OUT	AC power output, connecting AC power supply
14	AC IN	AC power input, connecting AC power supply
15	AC SWITCH	To open or shut down the AC power supply. "I" means power on, "O" means power off

REMOTE CONTROL

Button	Description
	Power Turns the display screen on and off
	Home Switch to *Favorite Source* input (*Home* by default).
	Source Selects a media source
	Navigation arrows Navigates through submenus and settings
	OK Confirms the selection
	Exit Exits the OSD menu
	Volume down Turns down the volume
	Volume up Turns up the volume
	Menu Opens the OSD menu

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REMOTE CONTROL BATTERIES

To install batteries in the remote control:

1. Press down the tab on the cover plate and pull the cover plate up.
2. Insert the included batteries. Ensure that the polarities match the (+) and (-) markings inside the battery compartment.
3. Insert the lower tab of the cover into the opening and press down the cover until it clicks in place.

 Notes on Batteries

- Please only use approved AAA-type batteries.
- Do not mix an old battery with a new one or different types of batteries.
- If you do not use the remote control for a long time, remove the batteries to avoid damage from battery leakage.
- Do not expose batteries to excessive heat, such as from sunshine or fire.
- Don't recharge, heat, disassemble, short, or throw batteries into a fire.

 Notes on Remote Control Operation

- Ensure that nothing obstructs the infrared beam between the remote control and the IR receiver on the display.
- If the effective range of the remote control decreases or stops working, replace the batteries with new ones.
- The remote control may fail to operate if the infrared remote sensor is exposed to bright sunlight or fluorescent lighting.
- Ambient conditions may impede the operation of the remote control. If this happens, point the remote control at the display and repeat the operation.

 Remote Control Sensor

- The effective area of the remote control includes the vertical distance within five meters in front of the display and the area within an angle of 30 degrees from the vertical point to the left and the right.

CONNECTION AND SETTING

⚠️ Please do not connect any power plug before connecting for your safety and the machine's safety.

EXTERNAL COMPUTER AND TOUCH CONNECTION
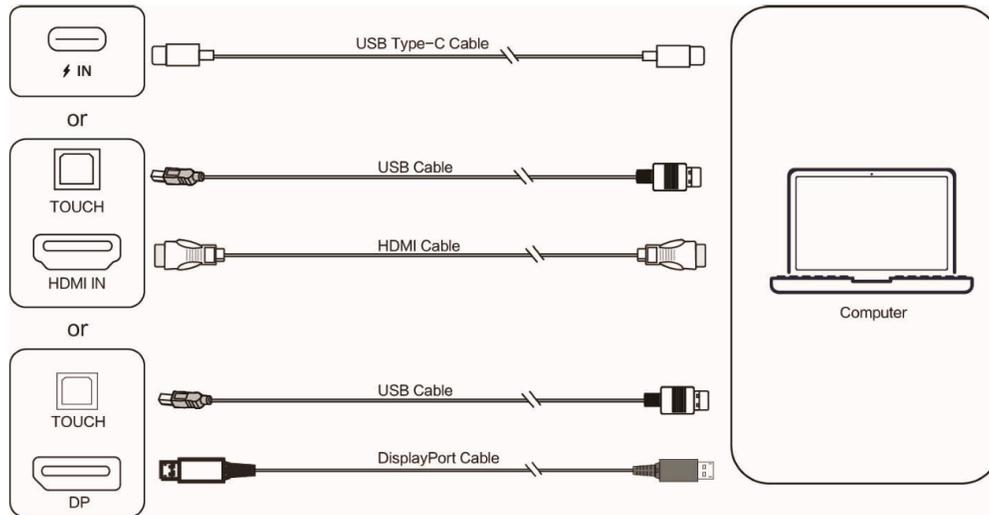
1. Use a USB Type-C cable to connect to a computer (Or use an HDMI cable to connect to the HDMI output port of an external computer. Or use a Display Port cable to connect to a display output port of an external computer).
2. Use a USB cable to connect to a USB port on an external computer.
3. After the cable is connected, plug in the power cord and switch the power on.
4. Start up your external computer.
5. Press the ⏻ key to turn the equipment on.
6. Switch the input source to the USB Type-C/HDMI /Display Port channel in the main menu.

NOTE: The equipment's best resolution for the external computer input is 3840*2160.

RECOMMENDED COMPUTER CONFIGURATION:

1GB Available Hard Drive

2.0GHz Processor, 1GB Memory

More than 256 color display cards

VGA OUT / HDMI OUT, Audio-OUT, USB Interface

Support Resolution：800×600,1024×768,

1920×1080,3840×2160

AUDIO AND VIDEO EQUIPMENT
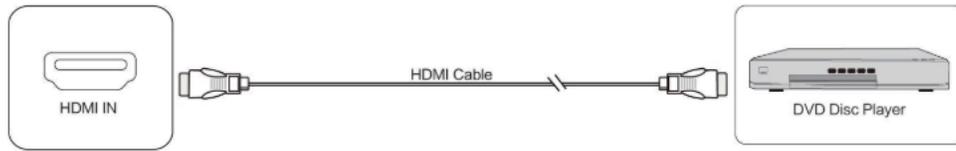
1. Use an HDMI cable to connect the audio and video equipment to the HDMI output.
2. After the cable is connected, plug in the power cord and switch the power on.
3. Press ⏻ to turn the equipment on.
4. Switch the input source to the HDMI channel in the main menu.
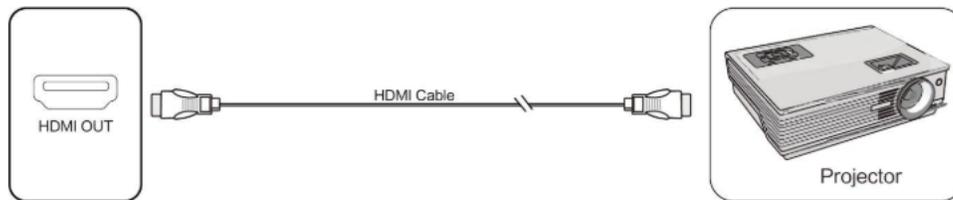
1. Use the HDMI cable to connect the audio and video equipment to the HDMI input.
2. After the cable is connected, plug in the power cord and switch the power on.
3. Press ⏻ to turn the equipment on.

RS232 CONNECTION
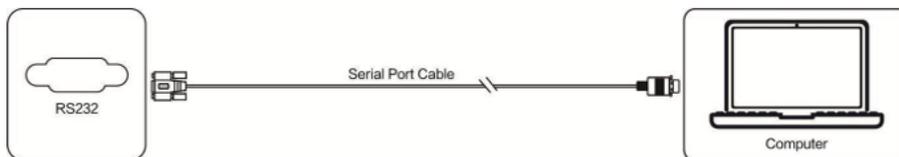
After using the serial port cable to connect the central control equipment and the machine, certain functions can be controlled with the central control equipment, such as machine ON/OFF, adjusting sound volume, etc.

LAN CONNECTION
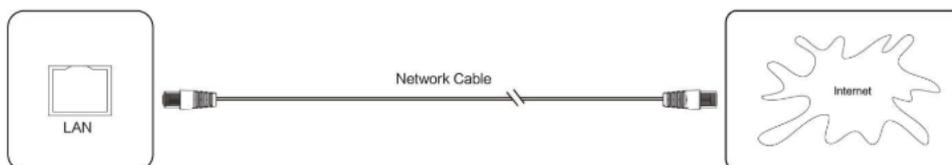
USB CONNECTION
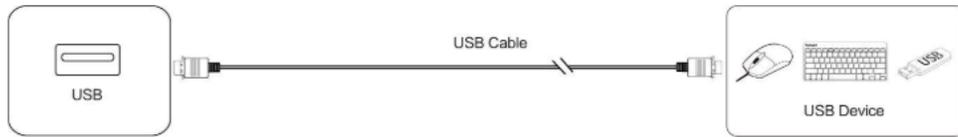
AUDIO OUT CONNECTION
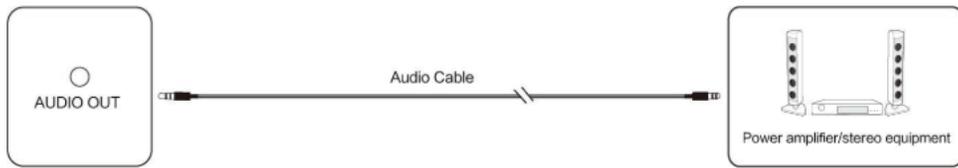
SIMPLE TROUBLESHOOTING

MACHINE FAILS TO WORK NORMALLY

Remote control failure	Check whether there are other objects between the remote control and the equipment control receiving window, thus leading to the failure of the remote control.
	Check whether the battery electrode in the remote control is correct.
	Check whether the remote control battery needs to be replaced.
The machine automatically shut down	Check whether it is set to sleep or not.
	Check whether there was a sudden power outage.
	The system will automatically shut down if the interactive intelligent Panel's external channel loses signal for 5 minutes. Please check the signal input and connection.

PC MODE

Signal out of range	Check whether the display is set correctly.
	Check whether the resolution is the best.
	Adjust line and field synchronization in the menu.
The background has vertical lines or streaks	Select automatic correction in the menu.
The image lacks color, or the color is incorrect	Check whether the VGA is not well connected or has a quality problem.
	Adjust chromatic and brightness or contrast in the menu.
Display a format that is not supported	Select automatic correction in the menu.
	Adjust the clock and phase position in the menu.

TOUCH FUNCTION

The touch function is invalid	Check whether the size of the article touched is comparable with a finger.

Touch positioning is not correct	Check whether the touch pen is facing the screen.

VIDEO FUNCTION CAN'T WORK NORMALLY

No picture and no sound	Check whether the machine is in a started state.
	Check whether the signal wire is well plugged and whether INPUT corresponds.
	If in internal computer mode, check whether the internal computer is started.
With horizontal or vertical stripes or	Check whether the signal wire is well connected.
image dithering	Check whether other electronic equipment or power tools are placed around the machine.
No color, color is weak, or image is weak	Adjust chromatic and brightness or contrast in the menu.
	Check whether the signal wire is well connected.

AUDIO FUNCTION CAN'T WORK NORMALLY

With image but without sound	Check whether the mute button is pressed.
	Press VOL + / - to adjust the volume.
	Check whether the audio line is connected correctly.
Only one speaker has sound	Adjust the sound balance in the menu.
	Check whether the computer sound control panel only sets up one sound channel.
	Check whether the audio line is connected correctly.
HDMI output without sound	Check whether the external device is connected.

MAINTENANCE

Proper maintenance can avoid many early faults, and regular, careful cleaning can make the machine feel brand new. Please unplug the power before cleaning and maintenance to prevent electric shock.

CLEAN SCREEN

Please mix and stir a little fabric softener or tableware detergent with alcohol.

Please use a soft cloth and thoroughly soak it in the mixture. Please remove the cloth and twist it to a half-dry state to wipe the machine screen.

Repeat this several times, and make sure not to squeeze the water into the machine when cleaning.

CLEAN FACE FRAME

Please wipe the front frame with a dry, soft, lint-free cloth.

NO USE OF MACHINE FOR A LONG TIME

If you haven't used the machine for a long time, such as during the holiday, please unplug the machine to prevent any possible dangers from lightning caused by a power supply ripple.

This symbol affixed to the product or its packaging indicates that it must not be processed with household waste. It must be brought to an electric and electronic waste collection point for recycling and disposal. By disposing of this product appropriately, you also help prevent potentially adverse environmental and human health consequences. Recycling materials helps preserve our natural resources. For further information regarding the recycling of this product, please contact your municipality, local waste disposal center, or the store where the product was purchased.