

TABLE OF CONTENTS

Compliance Information	}
Declaration of Conformity	3
FCC Part 15	}
Caution	}
Industry Canada (ICES-003)	ţ
Product Disposal	ł
Disposal of Old Electrical and Electronic Equipment	ł
Introduction	;
About This Manual	;
Textual Conventions	;
Graphic Conventions	5
What's in the Box?	,
Specifications	3
The display, at a glance	;
Front Panel)
Back Panel10)
Front Panel Interface11	Ĺ
PR Sensor12	<u>)</u>
Rear Source Inputs	3
Bottom-Rear Panel Inputs14	ļ
AC Power Inputs15	5
Top-Rear & Side Panel Guest Inputs16	5
Installation	1
Moving and Carrying Notice	3
Ambient Considerations19)
Ambient Light)
Ambient Temperature)
Ventilation19)
Mounting the Display)

Wall Mount
Peripheral Connections
Top-Rear & Side Ports22
Rear-Side Ports23
Bottom-Rear Ports
OPS Module25
OPS Installation Step-by-Step25
Remote Control
Remote Control Batteries
Operation
The Home Screen
The UiQ
Display Settings Tips
Network Settings Tips
Update System – Firmware42
External Control
RS232 Connection and Port Configuration45
TCP/IP Control Configuration45
Command and Response Format45
Serial Command List46
Warranty Information



COMPLIANCE INFORMATION

Declaration of Conformity

Avocor hereby declares that the following Product Model Number:

AVG series

conforms to the provisions of the following regulations:

- FCC:
 - FCC CFR Title 47 Part 15 Subpart B Class A, CISPR22
 - o ANSI C63.4
 - o ICES-003
- CE:
 - EN 55032 / BS EN 55032
 - o EN55024
 - EN 55035 / BS EN 55035
 - EN61000-3-2 / BS EN 61000-3-2
 - EN61000-3-3 / BS EN 61000-3-3
 Compliance with UKCA
- cTUVus:
 - o UL 62368-1
 - o CAN/CSA-C22.2 No. 62368-1
- CB:
- o IEC 62368-1
- CEC:
 - o California Code of Regulations, Title 20: Division2, Chapter 4, Article 4, Selections 1601-1609

FCC Part 15

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and may cause harmful interference to radio communications if not installed and used in accordance with the instruction manual. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at her/his own expense.

CAUTION

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

Industry Canada (ICES-003)

CAN ICES-3 (A)/NMB-3(A)

Product Disposal

The Product contains small amounts of tin, lead, and/or mercury. Disposal of these materials may be regulated due to environmental considerations.

Disposal of Old Electrical and Electronic Equipment

Applicable throughout the European Union and other European countries with separate collection



, programs

This symbol, found on your product or on its packaging, indicates that this product should not be treated as household waste when you wish to dispose of it. Instead, it should be handed over to an applicable collection point for the recycling of electrical and electronic equipment. By ensuring that this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate disposal of this product.

The recycling of materials will help to conserve natural resources. This symbol is only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.



INTRODUCTION

Your new Avocor AVG series display is an ultra-high definition interactive touch display supporting full range 4K@60hz resolution, up to 20 simultaneous touch points, multiple source inputs for your computers and peripheral devices, and our new intuitive **UiQ**.

Our AVG series displays follow our agnostic approach to interactive displays: they are compatible with a wide range of hardware and software, making it a great addition to any interactive meeting-room solution. Whether you need a virtual meeting space for your conference room, or a powerfully adaptive whiteboard or presentation hub for your classroom, the Avocor AVG series will exceed your expectations.

About This Manual

This user manual was written to help you get the most out of your display.

In addition to detailed descriptions of the display and its features, this manual will guide you through the installation and setup processes and provide tips, tricks, and best practices on how best to utilize the display.

We make every effort to ensure that this manual is accurate as of the date was printed. However, it may require periodic updating due to ongoing product improvements and customer feedback. Find the latest version of our manuals at Avocor.com.

Textual Conventions

The following textual conventions are used in this manual to denote certain actions or information for clarification purposes. Here are the details:

- Remote control and display keypad controls are set in CAPS. For example, "Press OK on the remote control to accept your changes."
- Menus in the OSD and computer interface are in **bold**. The ">" symbol is used to help denote submenu navigation. For example, "Open **Display > Picture > Advanced Settings** to adjust various picture settings."
- Keyboard keys with functional names are capitalized and set in <Angle Brackets>. For example, "press <Enter> to make your selection."
- In addition to the above, <u>underlining</u>, *italics*, or a <u>combination</u> of the two are used periodically to help emphasize key points in the text of this manual.

Graphic Conventions

The following symbols appear throughout this manual to emphasize key points. Keep these in mind not only to benefit from their advice, but also to avoid problems with the display or personal injury.

\bigwedge	TIP	Highlights helpful guidelines and best practices for using certain features.
Y	NOTE	Provides supplemental information and emphasize text of special significance.
	CAUTION	Alerts that given actions may degrade the performance of the display or cause a malfunction.
⚠	WARNING	Alert that a given action may result in damage to equipment or personal injury.
3	DANGER	Alert that a given action may cause serious personal injury or death.



WHAT'S IN THE BOX?

- Avocor AVG series Interactive Display
- Quick Start Guide and User Manual QR code
- Remote Control & Batteries
- (2) Touch Stylus
- Power Cables
 - US Cable 1.8m
 - \circ UK Cable 1.8m
 - o European Cable 1.8m
 - o AUS Cable 1.8m
- (1) HDMI cable 3m
- (1) USB-B cable 3m
- (1) USB-C cable 1.8m
- (5) Cable Clips

SPECIFICATIONS

Model	AVG-6560	AVG-7560	AVG-8560	
LCD Panel				
Diagonal Size (Inches)	65	75	85	
Backlight	Direct-lit LED			
Aspect Ratio	16:9			
Resolution	3840 x 2160 @ 60Hz			
Response Time	9.5 ms			
Brightness	400 (cd/m2)	400 (cd/m2)	400 (cd/m2)	
Contrast Ratio	5000:1	5000:1	5000:1	
Viewing Angle	178°/178°			
Supported Colors	1.07 Billion Colors			
Display Orientation	Landscape			
Touch System				
Touch	Up to 20 Point Avocor Inte	lligent Touch – Supports 4 fi	ne tip stylus	
Glass	3.2 mm AG & AF Coating T	empered Glass		
Supported OS	Windows 7 Pro. 8, 8, 1, & 10.	Mac OS 10.1 or later: Linux h	ased OS Kernel 3 15 or later	
Connectivity				
Rear Inputs	2x USB 3.0. 1x Type-C. 1x [DisplayPort 1.2. 2x HDMI 2.0.	3x USB-B Touch 3.0	
Other Inputs	3x HUB USB 3.0. 1x USB Se	rvice Port 2.0. 1x HDMI Out		
Audio	1x Audio Out, 1x SPDIF Out	t		
Control	1x IR in. 1x I AN Ethernet in	1x I AN Ethernet out. 1x RS	2320	
OPS Slot	Vec 38/0 v 2160 @ 60Hz	, <u>1</u>		
Audio	Tes, 3840 X 2100 @ 00112			
Ruilt in Spoakors	2v 15W/			
MIC Array	A Microphonos operating	distanco un to 5m		
Sensors	4 Microphones, operating			
IP Sonsor	2 + 0 5m			
DR Sensor	35+05m			
Display Functions	5.5 ± 0.511			
Auto-source detection Sou	rce Proview			
Physical Specifications				
Product Dimonsions	1481 4 x 884 4 x 116mm	1703 5 x 1009 2 x 116 8 mm	1929 5 x 1138 5 x 117 2 mm	
Product Dimensions	58.3 x 34.8 x 4.6 in	67.1 x 39.7 x 4.6 in	76 x 44.8 x 4.6 in	
Weight	Net: 56 kg / 123.4 lbs	Net: 71.6 kg / 157.9 lbs	Net: 91.3 kg / 201.3 lbs	
	Gross: 75.5 Kg / 166.5 lbs	Gross: 100 kg / 220.5 lbs	Gross: 124 kg / 2/3.4 lbs	
Mini DC Mount	400 x 400 mm	600 x 400 mm	600 x 400 mm	
	100 x 100 mm			
Handles (Removable)	4			
Power	A C100 - 240V (Marshelds da	1		
Power Supply	AC100 – 240V (Worldwide			
	Max 5.0A, 50/60Hz	Max 6.2A, 50/60Hz	Max 7.2A, 50/60Hz	
Max Power Consumption	335W (NON-OPS)	395W (Non-OPS)	480W (Non-OPS)	
Standby	≤0.5W			
Environmental				
Operating Temperature	<u>0°C ~ 40°C / 32° F ~ 104° F</u>			
Storage Temperature	-20° C ~ 60° C / -4° F ~ 140	Ĩ ŀ		
Humidity	35% ~ 85%			

THE DISPLAY, AT A GLANCE

The following diagrams depict the front, side, and bottom panels of the display. The physical interface and connections are labeled, and then described in the tables that follow.

Front Panel



0	Microphone Array	4 microphones
2	Front Panel Interface	See Page 11 for more details.
3	IR Sensor / Light Sensor	See Page 11 for more details
4	Pen Holder	Magnetized pen storage.
5	PR Sensor	See Page 12 for more details



avocor

Front Panel Interface



	Power	Turn the display on/off.
2	Source	Switch sources.
3	Menu	Open <i>UiQ Settings</i> .
4	Home	Access the <i>Home</i> screen.
5	Volume -	Short press to reduce one level of volume; Long press, continue to reduce the volume.
6	Volume +	Short press to increase the volume; Long press, continue to increase the volume.
7	IR sensor	Receives the remote control's commands to control the display.
8	Light sensor	Supports the light detection when Backlight's Auto feature is enabled, see more details in <i>UIQ</i> settings – Display > Picture > Backlight .

Revision Date: 11/03/2022

PR SENSOR

	-	
		PR Sensor

PR Sensor	Detects movement in a scanned area, for angle coverage and detection range, see the image below:
-----------	--



Rear Source Inputs

USB 3.0 USB 3.0	Type C USB 3 DisplayPort USB 2 HDMI 2 USB 1 HDMI 1 Audio Out IR SPDIF HDMI
02	3 4 5 6 7 8 9 10 11 12 13
USB 3.0	USB 3.0 type A for connecting external media, keyboard, or mouse.
2 USB 3.0	USB 3.0 type A for connecting external media, keyboard, or mouse.
3 Type-C	USB Type-C for connecting DP, USB, Power Delivery and Ethernet.
4 Touch USB 3	USB 3.0 Type B for touch control.
5 DP	DP1.2 & HDCP2.2.
Touch USB 2	USB 3.0 Type B for touch control.
7 HDMI2	HDMI2.0 & HDCP2.2.
8 Touch USB 1	USB 3.0 Type B for touch control.
9 HDMI1	HDMI2.0 & HDCP2.2.
10 Audio Out	Connects external, powered speakers or audio receiver.
II IR	Connects an IR Extender cable
12 SPDIF Out	Connects external and powered digital speakers or audio receiver.
13 HDMI Out	HDCP compliant HDMI out.

Bottom-Rear Panel Inputs

	C RS232C	Ethernet Ethernet Out In	Service Port	
	RS232C	DB9 Female Input		For interfacing with a PC or automation/control system.
2	Ethernet Out	RJ45 Output		Lan Out, 10/100Mbps.
3	Ethernet In	RJ45 Input		Lan In, 10/100Mbps.
4	Service Port	USB Type A Connector		Connect a USB stick for firmware upgrade.



AC Power Inputs



0	AC Output	A power output connection.
2	AC Switch	Turn the AC power on / off.
3	AC Input	A power input connection





	USB 3.0	USB 3.0 type A for connecting external media, keyboard, or mouse.
2	USB 3.0	USB 3.0 type A for connecting external media, keyboard, or mouse.
3	USB 3.0	USB 3.0 type A for connecting external media, keyboard, or mouse.



INSTALLATION

Please read the following precautions carefully before installing your new Avocor AVG series display. Failure to comply may result in damage to the display and equipment and may result in personal injury or death.

- DO NOT install the display in a high temperature environment or near any apparatus that produce heat.
 - This may cause damage to the panel and equipment. It may also cause personal injury due to electrical shock resulting from overheating.
- DO NOT install the display in a high humidity environment or an environment where it can come into contact with water.
 - This may cause damage to the panel and equipment. It may also cause personal injury due to electrical shock resulting from overheating.
- DO NOT overload outlets or cables beyond their electrical capacity.
- DO NOT insert the power plug into an outlet rated outside the range of 100~240V A/C.
- DO NOT insert the power plug into a damaged outlet.
- DO NOT use a worn or damaged A/C power cable.
- DO NOT use an improper or mismatched A/C power cable.
- DO NOT place the display on an unstable shelf or surface.
- DO NOT place objects on the display as instructed below:
 - Do not cover the vents on the display.
 - \circ Do not allow liquid or small particles to enter the vents or other parts of the display.
 - Do not put heavy objects on the display.
- Please allow room between the wall and the display panel to maintain proper ventilation and avoid overheating.
- Make sure you use the handles on the back of the display while lifting or moving the display, to avoid touching the front panel during the move.
- When unpacking, and carrying the display please follow these guidelines:
 - 2 people are needed for displays up to 65"
 - 3 people are needed for displays up to 75"
 - 4 people are needed for displays up to 85"
- Before installing, please make sure the wall is strong enough to hold the necessary weight of the display and the mount.

Moving and Carrying Notice

• To avoid possible damage to the display like bending of parts, make sure to spread the load evenly for vertical lifting.





• The handles are designed for manual lifting only. Please do not use improper tools or equipment to carry the display which will cause damage to the handles.



• Do not lean the left, right or top side of the display against a hard surface or the floor during the transporting, it will cause defects or cracks.



Ambient Considerations

Environmental and ambient factors play a considerable role in determining your viewing experience and the functional operation of the display. Make sure to follow these guidelines carefully to get the most out of your display.

AMBIENT LIGHT

For the best viewing experience, make sure to minimize or remove light sources directed at the screen, especially sunlight.

Any direct light may make images on the screen appear washed out and less vibrant, and direct sunlight may even affect touch control operation.

AMBIENT TEMPERATURE

Maintain the ambient temperature of the room at a consistent level. This will ensure that the display continues to operate smoothly.

Do not place the display near heat sources or air conditioning vents, and do not operate or store the display in temperatures above 40 degrees Celsius (104 degrees Fahrenheit).

VENTILATION

The display should maintain a proper operating temperature provided that the ambient temperature is not too high, and that the vents on the display have enough room to disperse any heat emanating from the display.

Do not block the vents on the display! Leave a space of about 4 inches between all sides of the display and surrounding walls or objects, as shown in the figure, below.



Mounting the Display

You can mount the display on a wall. If you do decide to wall-mount the display, ensure that the wall-mount bracket is installed according to the instructions included with it. The wall must be capable of supporting a redundant weight factor three (3) times the weight of the display, or be reinforced.



- > Leave mounting to the installation specialists.
- Always make sure that your stand, or mount/wall is rated to hold the weight of your display.
- Make sure that the surface you place the mount or stand upon can support the weight of your display.
- > Make sure the tilt degree of the display does not exceed 2°.
- > Always get help when moving or mounting the display.
 - 2 people are needed for displays up to 65"
 - 3 people are needed for displays up to 75"
 - 4 people are needed for displays up to 85"

WALL MOUNT

Follow the manual instructions for the type of mount you have selected. Refer all servicing to qualified service personnel.

Moving the display requires at least two people. Make sure you use the handles in the back of the display while lifting or moving the display, to avoid touching the front panel during the move.

Before installing, please make sure the wall is strong enough to hold the necessary weight of the display and the mount.

Step1. Keep the display facing the ground and place it on a flat object.

Step2. Remove the screws (M8*15) from the back of the display.

Step3. Align the wall brackets with the mounting holes and attach the brackets to the display using the screws removed in Step 2.

Longer screws will damage the display.

VESA Mount Dimensions:

- AVG-6560 : 400 x 400mm
- AVG-7560 / AVG-8560 : 600 x 400mm



- Use only the approved wall-mount kit designed for the display; talk to the installation experts for their recommendations and advice.
 - > Make sure the tilt degree of the wall does not exceed 2 degrees.



Peripheral Connections

Your Avocor AVG series display supports connections to multiple peripheral devices, from computers, to wireless presentation systems, to external control systems.

The below diagrams demonstrate how to connect your peripherals for the best possible results.

TOP-REAR & SIDE PORTS



This is where you can connect your AVG series with an external media device, a keyboard, a mouse or an accompanying USB 3.0 compatible accessory.



REAR-SIDE PORTS



The preferred method to properly connect a device to the panel is to connect your device to one of the video inputs via HDMI or DisplayPort and connect your USB-A—USB-B cable to your device and the USB Touch input. The Type-C port will support both touch and video. If using the HDMI port for video, the USB Touch input is required to enable touch control.



BOTTOM-REAR PORTS



The bottom rear ports on your AVG series display are great for connecting your network, control and update systems. *The Service Port is only intended for firmware updates and can only connect via a USB stick.*



OPS Module

Your Avocor AVG series is compatible with any Open Pluggable Standard (OPS) computer module.

Installing an Avocor OPS module is a relatively simple process, but one that still needs a level of care and attention. Improper installation may cause malfunction or even damage the OPS module or the OPS Slot-Connector on the display. *Please follow these instructions carefully.*

OPS INSTALLATION STEP-BY-STEP

I. Turn off the main power switch for the AVG series display. II. **Remove the screw of the handle** on the display input panel



III. Turn the handle clockwise direction gently





IV. Take off the handle carefully on the display input panel



V. Remove the OPS slot shield on the display input panel



VI. **Install the OPS computer** by carefully sliding it into the OPS slot as pictured below.





VII. Secure the OPS computer into the slot using the screws that were removed earlier



That is it! Your OPS should be ready to go. Turn the main power of the display back on and hit the power button on the OPS module to begin operation.



Remote Control



C	POWER	Power on/off the display
	HOME	Navigate to the selected Favorite Source
Ð	SOURCE	Open the source selection menu
	OK/ DIRECTION KEYS	Menu navigation and selection
5	EXIT	Go back to the previous menu
<]>	VOL	Lower the volume
口)))	VOL. +	Increase the volume
\$	MENU	Open the OSD menu



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. Ensuring that the polarities correctly 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 will 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, fire or the like.
- Don't recharge, heat, disassemble, short or throw batteries into a fire.



Notes on Remote Control Operation

- Make sure that there is nothing obstructing the infrared beam between the remote control and the IR receiver on the display.
- If the effective range of the remote-control decreases, or it 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 possibly impede the operation of the remote control. If this happens, point the remote control at the display, and repeat the operation.



The effective area of the remote control includes the vertical distance within 3 \pm 0.5 metres in front of the display, and the area within an angle of 90 degrees from the vertical point to the left and the right.



OPERATION

The Avocor AVG series is our smart display featuring an intuitive touch interface for source navigation and OSD menu configuration. This chapter will provide information and best practices for operating the home-screen and the various on-screen display (OSD) menu settings to help facilitate the best possible user experience.

▲ Precaution

Please read the following precautions regarding normal operation carefully. Failure to follow the cautionary points therein may cause damage to the screen not covered by Avocor's warranty policy.

- If you encounter a problem during installation, please contact your dealer or Avocor support for assistance. DO NOT attempt to repair or open the display yourself.
- Always avoid placing the display flat face-down or face-up. DO NOT attempt to use the display lying flat on its back at any time.
- DO NOT set a static (non-moving) image on the display for an extended period of time, as this may cause image retention, or "burn-in" which is not covered by warranty.
- RECOMMENDED USAGE HOURS:
 - Turn off the display for at least **8 hours** after every 16 hours of usage in a 24-hour period.

The Home Screen



The Home Screen is the default landing page and general hub for the AVG series' touch interface. Here, you can configure the display's settings via the OSD and select an input source without having to use the remote control.

The UiQ avocor Settings \$ Display Location Language 1:22 AM # Input Security a About × To access the **UiQ**, touch the gear icon on the home screen, or press the **Menu** key on your remote control. You can access the various menu settings by touching the icon squares in this interface (see the image above). Each menu will have a \leftarrow Buck button that will return to the previous menu. button on the bottom right of the interface or touch the **Menu** key on the remote control Press the again to exit the OSD menu. Read more information on each menu setting.



Display	
Name Main Conference Room	>
Wallpaper	>
Energy Saving	>
Picture	>
Audio	>
Auto Close Menu	0

Avocor Logo	Toggle the presence of the Avocor logo on the Home Screen.
Name	Change the name assigned to the display, which is visible on the Home Screen.
Wallpaper	Set a default or custom User Images for the Home Screen. A Slideshow is selected by default.
Energy Saving	Set Auto Power On/Off, Power On Time, Power Off Time, Presence Detection, Eco Mode, OPS Always On, Display Sleep.
Picture	Set Scheme , Backlight , and Advanced Settings for the display's picture; (Advanced Settings are only available when connects an input source) *To adjust the backlight setting, Eco Mode must be disabled.
Audio	Set Mute, Treble, Bass, and USB Mic/Speaker Disable on and off.
Auto Close Menu	Set On and Off.

DISPLAY SETTINGS TIPS

The **Display** settings submenu contains configuration options for various picture and audio settings for your AVG series Navigating the menus is straightforward and intuitive, but we will provide some tips and knowhow to help you get started.

Custom Wallpapers

The AVG series already comes with some gorgeous high-resolution wallpapers, but you can easily upload your own. Just follow these steps...

- I. Grab a USB flash drive
- II. Open the USB flash drive's *file directory* on a computer.
- III. Create a new folder with the name WALLPAPER.
- IV. Save any wallpapers you want into that WALLPAPER folder.
- V. **On the Display** Open **Settings>Display>Wallpaper** on the Home Screen.
- VI. Under *User Images*, touch the blank tile containing the "+" symbol (see the image).
- VII. Plug your USB flash drive into the USB 3.0 port on the display.

That is it! Your custom wallpapers will upload automatically.

Only 1920x1080 images or higher resolutions are supported.

You can delete a custom wallpaper by touching the blue "x" button located on the right corner of the image preview.

Energy Saving

This submenu provides options for helping you maximize power efficiency for your AVG series. Here you can...

- Schedule an **Auto Power On*** cycle for every day of the week.
- Enable **Presence Detection** to wake the screen whenever it senses movement.
- Toggle Eco Mode for automatic Energy Star rated picture settings.
- Toggle **OPS Always On** to keep the OPS port live or have it shut off with the display's normal automatic or manual power cycles.
- Set your **Display Sleep** timer to activate after a set period of inactivity.

Auto Power On*

Your automatic power schedule is divided into three items in the UiQ:



Energy Saving	
Auto Power On	
Power On Time	8:30 am 🗦
Power Off Time	6:30 pm 🗦
Presence Detection	
Eco Mode	
OPS Always On	
Display Sleep	Never
1 I I I I I 1 min	I I 3 hrs Never





- Auto Power On a slider which toggles your automatic power schedule on or off.
- **Power On Time** sets the time your display will power on.
- Power Off Time sets the time your display will power off.

Open either **Power On Time** or **Power Off Time** options and a clock wheel and seven tiles representing the days of the week will appear, just as in the image to the right. ----->

Simply adjust the clock to your preferred time of day and touch the days of the week to choose which days your Power On or Power Off will occur, **Blue** means active, **White** means inactive.

6	28	
7	29	
8 :	30	AM
9	31	PM
S M T	w	T F S

For example, if you set your Power On Time to 8:30 AM and highlight the M, T,

W, *T*, *F* tiles, then your display will automatically power on at 8:30 AM, Monday thru Friday, while skipping Saturday and Sunday, every week.

Utilizing these settings is highly recommended if you expect heavy use and long hours for your AVG series display, as this will help maintain its longevity.



Network	
Status	Cable Connected
LAN	DHCP >
Wi-Fi	>
Wake On LAN	
LAN USB	

Status	Shows Network and LAN status (Cable Connected, Not Connected).
LAN	Set a Static IP or DHCP .
Wi-Fi	Configure Wi-Fi settings (additional USB device required)); locate the MAC Address.
Wake On LAN	Toggle Wake On LAN.
LAN USB	Disable and enable sharing network via USB .

NETWORK SETTINGS TIPS

Here is where you can set your **Network** configurations to enable a wired LAN connection, or a Wi-Fi connection (Wi-Fi USB device required). You also need to configure your **LAN** settings to be able to enable *TCP/IP control*. Here are some tips to help get you started.

LAN

For a wired connection to either the **Ethernet In** or **Ethernet Out** port; here you will assign an IP address and other necessary network parameters for your display. You can set your parameters manually by choosing the **Static** option or automatically via **DHCP**, if available. *Consult your network administrator to see if DHCP is an option*!

LAN	
TYPE	
Static	~
DHCP	
IP Address	10.7.15.77 >
Subnet	255.255.0.0 >
Gateway	10.7.15.1 >
DNS 1	1.1.1.1 >
DNS 2	8.8.8.8 >



Language		
Language	English >	



Location	
Timezone	<i>></i>
Auto Date & Time	
Set Date	>
Set Time	>
Use 24 Hour Time	
Date Format	Fri, October 16 💚
WEATHER	
Location	5
Unit	

Timezone	Set Timezone based on city and region.
Auto Date & Time	Toggle Auto Date & Time On (internet connection required, see NOTE below)
	or Off.
Set Date	Manually set the date.
Set Time	Manually set the time.
Use 24 Hour Time	Toggle 24 Hour Time On or Off .
Date Format	Set date format.
Location (Weather)	Set the region for accurate weather information.
Unit (Weather)	Set unit for measure of temperature (°F, °C)

NOTE: Enable automatic update setting, the display internet connection is required. There are two

- Plug an Ethernet cable into the display's network port \triangleright
- Connect with an external Wi-Fi dongle on the display \triangleright

Input	7
Favorite Source	Home Screen >
Starting Source	Home Screen
Auto Detect New Input	
Source Preview	
Rename Sources	>
Advanced Settings	>
True Ink	

Favorite Source	Set the favorite source (Home Screen, OPS Computer, HDMI 1, HDMI 2, DisplayPort, Type-C).
Starting Source	Set the default source the display will show automatically upon powering on the display (Home Screen, OPS Computer, HDMI 1, HDMI 2, DisplayPort, Type-C).
Auto Detect New Input	Toggle Auto Detect New Input ; determines whether the display will automatically switch to a new connection.
Rename Sources	Set custom names for the display's input sources and toggle on/off the source tiles you wish to appear on the Home Screen.
Advanced Settings	Toggle Wake on Input and set EDID.
	Show the Current Source's name, resolution, and refresh rate
True ink	Enable true-ink function under the source.

Security	v
Require Passkey	
Set Passkey	>
Lock Front Button	

Require Passkey	Toggle Require Passkey on/off.
Set Passkey	Set a custom Passkey to access display settings.
Lock Front Button	Lock the buttons on the front panel.



About Q
Name
Avocor
Firmware Version
v1.06 /v01/0001.0000
Serial Number
000000000001
Model Number
AVG
Update System 🗸 Up To Date 🔅
Factory Reset >
Customer Service
Contact Avocor customer service with any questions or concerns visit avocor.com/ enquire to submit a support ticket.

Name	The full name and model of the display.
Firmware Version	The active firmware version number.
Serial Number	The unique serial number for the display.
Model Number	The model number of the display.
Update System	Used to update the display's firmware.
Factory Reset	Used to restore the display's factory default settings.

UPDATE SYSTEM – FIRMWARE

You can easily update your system firmware by opening the About menu in your display's OSD and clicking Update System.

From here, you have two options:

1. Download & Apply Update

• This will allow you to easily update your firmware over a stable internet connection. We recommend using a wired connection to ensure the process is successful.

NOTE: This function will only support FW version **1.03** or higher.

2. USB Update

• This is a more manual process that requires you to download the correct file from Avocor.com, and upload the file via the USB Service Port on the display.



NOTE: This function will only support FW version **1.02** or higher

Update System	
New Firmware Version	
1.02.09	
Release Notes 1.Fixed various bugs. 2.Improved EDID compatibility 3.UI optimization updated	
Download & Apply Update	
USB Update	>

Download & Apply Update – Instructions (FW version 1.03 or higher)

Connecting through an Ethernet network on your display, the system can automatically detect the updates and enable firmware upgrading within a few steps.

- 1. The system will check the Avocor website and display the Update Available dialog message if there is new firmware version.
- 2. Open the About menu > Update System > Update Available.

About	Q
Name	
Avocor none	
Firmware Version	
v1.02.09	
Serial Number	
none	
Model Number	
none	
Update System ! Upda	ite Available 🗦
Factory Reset	>
Customer Service	
Contact Avocor customer s questions or concerns visit	ervice with any avocor.com/



3. Press **Download & Apply Update.**



4. A dialogue box shows there is a new firmware available then click the **Install** button to proceed.



5. After selecting the **Install button**, a progress bar will appear as the download process begins. When the installation reaches 100%, the display will restart.



6. Once the firmware updating is finished, it will take a few minutes to restart the display.



7. Wait until the process complete and the display shows again the Home screen. Go to the About menu and check if the new version is up to date.



USB Update – Instructions (FW version 1.02 or higher)

For your convenience, detailed instructions will appear once you open the USB Update option in the OSD menu.





EXTERNAL CONTROL

RS232 Connection and Port Configuration

Connect your control system or PC to the RS232 input of the display via a 9-pin, straight through connector cable. Configure the RS232 controller or PC serial port as follows: no parity, 8 data bits, 1 stop bit and no flow control. Set the baud rate to 115200, to match that of the display RS232 port.

TCP/IP Control Configuration

Connect your network, control system, or PC to the display's **Ethernet In** or **Ethernet Out** port via a CAT5 cable. The display must be connected to the network and must have a valid IP address. Configure your control system to run through *Telnet (Port 23)*.

Command and Response Format

Any commands sent from an automation/control system or PC to an Avocor display must have the following format **(ASCII is not accepted/used)** :

[STX] [IDT] [TYPE] [CMD] [VALUE]/[REPLY] [ETX]

- [STX] indicates the start of the command data (always 07).
- [IDT] is the display ID (always 01).
- [TYPE] is the command type:
 - 00 = return to host (response from the LCD panel)
 - 01 = read / action
 - 02 = write
- [VALUE] is the parameter setting for the command.
- [REPLY] is the parameter setting for the command, acknowledged by the display in its response to a command.
- [ETX] indicates the end of the command data (always 08).

Serial Command List

Main Item	Control Item	CMD	Туре	Value (HEX)	Reply (HEX)	Content	CMD (HEX)
	Power Control			00	00	Off (soft power)	
		POW	W/R	01	01	On (soft power) *NOTE	— 50 4F 57
	IPC Control		\A//D	00	00	Off	40 50 42
		IPC	VV/K	01	01	On	- 49 50 43
Dower Control				09	09	HDMI 1	
and Input				0A	0A	HDMI 2	
Jource	Input Source	MIN	W/R	0D	0D	DisplayPort	4D 49 4E
				OE	OE	IPC/OPS	
				14	14	Туре-С	
	Current Source Status	100			00	Inactive Signal	40.52.52
		155	к		01	Active Signal	49 33 33
		BRI	W/R	00~64	00~64	Back Light Brightness	42 52 49
		BRL	W/R	00~64	00~64	Digital Brightness Level	42 52 4C
		DI C	W//D	00	00	Off (Back Light)	42.40.42
		BLC	VV/N	01	01	On (Back Light)	42 40 43
		CON	W/R	00~64	00~64	Contrast	43 4F 4E
		HUE	W/R	00~64	00~64	Hue	48 55 45
Display Adjustment	Display Adjustment	SAT	W/R	00~64	00~64	Saturation	53 41 54
				01	01	6500К	
		СОТ	\A//D	02	02	9300К	
		COT	VV/K	06	06	5000K	
				07	07	7500K	
		C.A.C.	W//D	00	00	Gamma Off	47 41 42
		GAC	VV/K	01	01	Gamma 2.2	14/4143

Main Item	Control Item	CMD	Туре	Value (HEX)	Reply (HEX)	Content	CMD (HEX)
	Sharpness	SHA	W/R	00~64	00~64	Sharpness	53 48 41
				00	00	115200	
				01	01	38400	
	Baudrate Adjustment	BRA	W/R	02	02	19200	- 42 52 41
				03	03	9600	
				00	00	MENU Key	
				01	01	INFO Key	
				02	02	ИР Кеу	
				03	03	DOWN Key	
				04	04	LEFT Key	
	Other Control	RCU	w	05	05	RIGHT Key	- 52 43 55
				06	06	ENTER Key	
				07	07	ЕХІТ Кеу	
Other Control				0A	0A	HDMI1 Key	
				ОВ	ОВ	HDMI2 Key	
				0C	0C	DISPLAYPORT Key	
				12	12	SOURCE Key	
				18	18	FREEZE Key	
				19	19	MUTE Key	
				1D	1D	VOLUME+ Key	
				1E	1E	VOLUME- Key	
				21	21	OPS Key	1
				2E	2E	Туре-С Кеу	
		ALL	w	00	00	Reset all	41 4C 4C
			14/5	00	00	Un-lock keys	45.46.12
		KLC	W/R	01	01	Lock keys	-4B 4C 43

Main Item	Control Item	CMD	Туре	Value (HEX)	Reply (HEX)	Content	CMD (HEX)
		SER	R		13 bytes	Read Serial Number	53 45 52
		MNA	R		13 bytes	Read Model Name	4D 4E 41
		GVE	R		6 bytes	Read Firmware Version	47 56 45
		VOL	W/R	00~64	00~64	volume	56 4F 4C
		BAS	W/R	00~0D	00~0D	Bass	42 41 53
		TRE	W/R	00~0D	00~0D	Treble	54 52 45
	Audia	BAL	W/R	00~0D	00~0D	Balance	42 41 4C
	Audio	NALIT	W//D	00	00	Mute Off	
		MUT	W/K	01	01	Mute On	40 55 54
		MUG	W/R	00	00	Mute Off	
		IVIUS		01	01	Mute On	40 55 53
	Scheme Selection		W/R	00	00	User/Custom	
				01	01	Sport	
		SCM		02	02	Game	53 43 4D
				03	03	Cinema	
				04	04	Vivid	
	Fee Made		W/R	00	00	Eco Off	F7 4C F2
	Eco Mode	VVF5		01	01	Eco On	57 46 53
		RTY	W/R	00~63	00~63	Set Real time Year	52 54 59
		RTM	W/R	01~0C	01~0C	Set Real time Month	52 54 4D
	RTC	RTD	W/R	01~1F	01~1F	Set Real time Day	52 54 44
		RTH	W/R	00~17	00~17	Set Real time Hour	52 54 48
		RTN	W/R	00~3B	00~3B	Set Real time Minute	52 54 4E
	Cmart Light Castral			00	00	Off	F2 4C 42
	Smart Light Control	SLU	W/R	02	02	Light Sensor	53 40 43

Main Item	Control Item	CMD	Туре	Value (HEX)	Reply (HEX)	Content	CMD (HEX)
	HDMI1 EDID			00	00	1080P	
		EH1	W/R	02	02	4K60Hz	45 48 31
		5112		00	00	1080P	45 40 22
		EHZ	W/R	02	02	4K60Hz	45 48 32
		EHE	W//P	00	00	1080P	45 48 35
	OPS EDID	спэ	VV/N	02	02	4K60Hz	45 48 55
	DisplayPort 1 EDID	ED1	W//P	00	00	1080P	
			WYIX	02	02	4K60Hz	43 44 31
		EC1	W//P	00	00	1080P	
			VV/K	02	02	4K60Hz	43 43 31
	HDMI RGB Color Range	HCR	W/R	00	00	Auto Detect	
				01	01	Full Range	48 43 52
				02	02	Limited Range	
		OSL	W/R	00	00	English	
				01	01	French	
				02	02	German	4E 52 4C
				03	03	Dutch	41 33 40
				0D	0D	Italian	
				10	10	Spanish	
	Network Enable	NWE	W/R	00	00	No	4E 57 45
				01	01	Yes	
Ethernet	Dynamic IP	DIP	W/R	00	00	Disable	44 49 50
Setup				01	01	Enable	
	Static IP Settings	IP1	W/R	00~FF	00~FF	Static IP Address 1	49 50 31
		IP2	W/R	00~FF	00~FF	Static IP Address 2	49 50 32

Main Item	Control Item	CMD	Туре	Value (HEX)	Reply (HEX)	Content	CMD (HEX)
		IP3	W/R	00~FF	00~FF	Static IP Address 3	49 50 33
		IP4	W/R	00~FF	00~FF	Static IP Address 4	49 50 34
		MK1	W/R	00~FF	00~FF	Subnet Mask 1	4D 4B 31
		MK2	W/R	00~FF	00~FF	Subnet Mask 2	4D 4B 32
		MK3	W/R	00~FF	00~FF	Subnet Mask 3	4D 4B 33
		MK4	W/R	00~FF	00~FF	Subnet Mask 4	4D 4B 34
		GW1	W/R	00~FF	00~FF	Gateway 1	47 57 31
		GW2	W/R	00~FF	00~FF	Gateway 2	47 57 32
		GW3	W/R	00~FF	00~FF	Gateway 3	47 57 33
		GW4	W/R	00~FF	00~FF	Gateway 4	47 57 34
		FD1	W/R	00~FF	00~FF	DNS Address 1	46 44 31
		FD2	W/R	00~FF	00~FF	DNS Address 2	46 44 32
		FD3	W/R	00~FF	00~FF	DNS Address 3	46 44 33
		FD4	W/R	00~FF	00~FF	DNS Address 4	46 44 34
		SNS	W	00	00	Save Network Settings	53 4E 53
		MAC	W	00~05	00~FF	Querying MAC ID #0~#5	4D 41 43
OPS	OPS Always Power	ΟΑΡ	w	00~01	00~01	Configure OPS Always Power Setting	4F 41 50
	Enable Presence Sensor	SPR	W/R	00	00	Disable Presence Sensor	53 50 52
Sensor				01	01	Enable Presence Sensor	
	Read Motion Status	RPR	R		00	There is not people motion	52 50 52
					01	People Motion	

NOTE: Power On command (POW 1) is only applicable when Eco Off and the display is in power off or

WARRANTY INFORMATION COVERAGE

Avocor warrants to the first end user customer that the product, when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, for a period of **three (3) years** from the date of purchase, repair or replace the defective product or part thereof, at Avocor's discretion, with a new or equivalent at no charge to the customer. Advanced Field Replacement (AFR) service is included as part of this warranty.

Except as specified herein, this warranty covers all defects in material or workmanship in the product. AVOCOR'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT AT AVOCOR'S DISCRETION. REPLACEMENT PARTS OR PRODUCTS MAY BE NEW OR 'LIKE NEW' UNDER THE CONDITIONS SPECIFIED BELOW. All parts or products removed under this warranty become the property of Avocor.

The replacement part or product is warranted for the remainder of the original limited warranty period or thirty days from shipment, whichever is longer.

LIMITATIONS ON WARRANTY COVERAGE, DURATION, AND SERVICES MAY SOMETIMES VARY BASED ON THE LAWS OF SPECIFIC REGIONS, STATES, AND COUNTRIES. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM JURISDICITON TO JURISDICTION.

Exclusions

This warranty does not apply to any cosmetic or consumable items of the Product or if the serial number or model number affixed to the Product has been removed, defaced, changed, altered, or tampered with.

This warranty does not cover installation, signal reception problems, potential incompatibility with peripheral devices, or acts of nature. Avocor does not warrant nor shall it be liable for Products which have been subject to abuse, including, but not limited to, improper voltage, accident, misuse, negligence, lack of reasonable care, alteration, modification, tampering, improper installation, shipping damage, operation or maintenance or any damages or defects caused by repairs or attempted repairs performed by anyone other than Avocor personnel or an Avocor-authorized servicer.

Please refer to Avocor's pixel policy for warranty guidelines on pixel related issues.

This warranty also excludes any damage to product glass due to pressure, abrasion, scratches, or actions otherwise beyond normal operation of the product that would cause screen mura and image retention.



Concealed Damage

It is the customer's responsibility to inspect new product(s) at the time of delivery.

If packaging is found damaged *at the time of delivery*, the Customer should refuse delivery and note on the delivery receipt the product and details pertaining to damage. The Customer may accept packages with minor damage but must take note of product details and damage on the delivery receipt.

If patent or obvious physical damage is detected *after delivery is accepted* and a "clean" or unmarked delivery receipt was returned, it is the customer's responsibility to file an insurance claim to the shipping provider according to the requirements set forth in the shipping provider's policy.

If the product packaging is clean and undamaged, but patent or obvious physical damage is found on the product, the customer must report the damages to their product distributor, shipper, or seller, within the policy guidelines of the distributor, shipper, or seller.

If freight was arranged by Avocor, and patent or obvious physical damage to the packaging is not detected but found on the product or product accessories upon inspecting the product, the customer must report the damages to Avocor within 10 calendar days after the delivery date to receive warranty services.

Customer Data

If the customer's product is capable of storing software programs, data, and other information, it is the customer's responsibility to protect its contents against operational failure. It is also the customer's responsibility to keep a separate backup of the contents and remove all personal information and disable security passwords prior to delivering a product for warranty service. ANY PERSONAL CONTENT WILL BE DELETED AND STORAGE MEDIA WILL BE REFORMATTED IN THE COURSE OF WARRANTY SERVICE.

AVOCOR SHALL NOT BE LIABLE, OR IN ANY WAY RESPONSIBLE, FOR ANY INCIDENTAL OR CONSEQUENTIAL ECONOMIC OR PROPERTY DAMAGE. SOME REGIONS DO NOT ALLOW LIMITS ON WARRANTIES OR ON REMEDIES FOR BREACH IN CERTAIN TRANSACTIONS; IN SUCH REGIONS, THE LIMITS HEREIN MAY NOT APPLY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. AVOCOR DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE.

SERVICES

Technical Support: The Customer must contact Avocor Technical Support, via email at service@avocor.com in order to initiate an RMA or another warranty service. Customer agrees to cooperate with Avocor: (A) to notify Avocor promptly of any defect, error or Hardware Product malfunction and to submit to Avocor such information that Avocor may reasonably require to reproduce the error or Hardware Product malfunction and the operating conditions under which the error or Hardware Product malfunction was discovered; (B) to follow Avocor's guidelines to troubleshoot reported faults on the defective product(s); (C) to install, requested by Avocor and within Customer security guidelines, a network connection that will be made available to Avocor for the purpose of resolving problems, reviewing Customer use of software, or for any other reasonable purpose; (D) to have a certified technician repair or replace defective parts under Avocor's guidance; (E) to notify Avocor of any additional hardware or software not purchased from Avocor that may be used in conjunction with the Hardware Product.

Onsite Repair: If Avocor deems the Product repairable, it will, at its discretion, send a technical support representative and/or technician to provide onsite repair or replacement service for any repairable or replaceable parts. Customer may be asked to provide access to, and to assist in the handling of, the Product, as deemed necessary by Avocor, under the instruction of the field representative or technician.

Advance Field Replacement (AFR): Avocor will ship a like-new or refurbished replacement product to the customer, at its discretion, if the product defect is determined to be unrepairable. The Customer must provide the display model and serial number and will be asked to provide contact details for the shipment. Upon approval, Avocor will ship the replacement product to the customer's site.

AFR Guidelines: At the time of the new product's arrival to the customer, it is the customer's responsibility to facilitate the deinstallation of the defective product, installation of the replacement product, and packing of the defective product in either its original packaging or the packaging of the replacement, and then send the defective back with the same driver that delivered the replacement product on that same day. If the customer is not able to perform the same-day swap they will incur the cost of freight. Additionally, if the product is not returned within 15 business days, the customer will be invoiced in full for the replacement product.

SHIPMENTS TO CERTAIN INTERNATIONAL LOCATIONS MAY NOT BE SUBJECT TO THE ABOVE AFR GUIDELINES. CONTACT SUPPORT FOR FURTHER DETAILS.

Defective on Arrival (DOA): If the Product is determined by Avocor to be defective within the first 90 days of the initial purchase by the Customer, it is deemed Defective on Arrival (DOA). In the case of a DOA, the Customer will be provided a brand-new equivalent Product. In the case that an RMA is issued after the 90 DOA period, the defective product will be replaced with a refurbished "like new" equivalent product, if available.

Repair with Expired Warranty: Avocor offers repair services, at cost to the Customer based on time and materials, for products with expired warranty. Customer will be responsible for all shipment costs.

For more information, please contact us via email at <u>service@avocor.com</u>