This manual is a user guide for ADM-2121AX-E01 waterproof industrial display. It includes detailed description about how to install and operate the product. Arista Corporation recommends users to read through the entire manual and follow instructions to avoid any kind of obscurity in using the product. For any questions or support, please call us at 1.877.827.4782 Monday through Friday 8:00am to 5:00PM Pacific Time.

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Version No.: V1.5
Read this document before installation, configuration and operation of this equipment. Users are required to familiarize with all the information and applicable standards prior to using this manual. This manual should be saved for future reference and use.

- Relative humidity: 25%~80%
- Storage temperature: 0°C to 60°C (32F to 140F)
- Operation temperature: 0~50°C (32F to 122F)
- Unplug the unit when not in use for an extended period of time.
- Consult a service technician if the ADM-2121AX waterproof industrial display does not operate normally when you have followed the instructions in this manual.
- Do not attempt to repair this product yourself. Always get a qualified service technician to carry out adjustments or repairs.
- Do not place heavy objects on the unit.
- For any reason a power cord is used, it should be certified by local and national standards and used under guidance of authorized technician.
- Never use a faulty power cord with this unit. Please contact the manufacturer or nearest authorized repair service right away for a replacement if damaged power cord is received.
- The power supply cord is used as the main disconnect device. Ensure that the socket outlet is easily accessible after installation.
- Overloaded AC outlets, extension cords, frayed power cords, and broken plugs are extremely dangerous. They may, and can, result in an electrical shock or fire hazard. Call an authorized service technician for any replacements.
- Hands must be dry when plugging the power cord into an AC outlet to prevent electrical shock. Do not damage the power cord by disassembling, bending, pulling or exposing it to heat as it may cause a fire or electrical shock.
- Make sure to completely insert the power plug into an AC outlet. Insecure connections can cause fire.
- Ensure that the power source is grounded correctly.
- Unplug the unit if cleaning is needed. The unit may be wiped with a dry or slightly damp cloth when the power is off.

Important: Read all the contents of this instruction manual carefully before using the ADM-2121AX waterproof industrial display.
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Arista Corporation's 21.5" waterproof industrial LCD displays are designed to operate in harsh environments, and are ideally suited for a wide variety of industrial environments, applications and outdoor use.

The industrial waterproof LCD display consists of a display and a smart ARD-1007A Transmitter.

The ADM-2121AX is integrated with KVM extender receiver in the unit. Therefore, Arista's KVM extender transmitter has to be used with ADM-2121AX. Arista ARD-1007ATX(Arista's ARD-1007A KVM HDMI extender transmitter) is compatible with ADM-2121AX and is shipped with ADM-2121AX. Beside ARD-1007ATX; ARD-5816TX extender cluster is also compatible with ADM-2121AX.

The high resolution display is capable of displaying large amounts of critical production and process information, and provides floor personnel with easy-to-see and easy-to-read production targets, cadence, alarms, machine uptime and downtime measurements, and OEE (overall equipment effectiveness), thus helping to improve productivity and efficiency in the work place.

With one CAT5e/6 LAN cable, the industrial waterproof LCD display system allow Ethernet, power, audio, video and control signals extension up to 495ft. User can directly do touch screen, remote control and keyboard/mouse operation on the ADM-2121AX display. Arista ARD-1007A HDMI digital extender transmitter or Arista ARD-5816TX 16-Way Digital Extender Transmitter Cluster is situated near the signal source, and the ADM-2121AX display can be placed at a preferred location.
• 21.5" industrial waterproof display, 1920 x 1080 resolution

• 16:9 aspect ratio for the display with touch support.

• Projected Capacitive Touch Screen

• LCD protected by tempered glass.

• High quality, waterproof stainless steel bezel.

• Supports multiple digital signals such as power, Ethernet, control, audio, video (HDMI, VGA, DVI, SDI, DP, CVBS, YPbPr).

• HDBaseT 5Play extends audio, video, control, Ethernet, and power over a single Cat5e/ Cat6 cable.

• HDBaseT provides 10.2 Gbps of bandwidth on all channels.

• Color supports up to 8 bits per color, total 16.7 million colors.

• Extends uncompressed HDMI video signal up to 330ft (100m) at 4K (UHD 3840 x 2160) resolution, and 1080P video signal up to 495ft.

• Supports the touch screen, and keyboard/mouse signal transmission.

• Strengthened protective glass (anti-reflective optional).

• Sunlight readable option.

• High brightness, contrast and wide viewing angles.

• Single control operation and transparent On-Screen-Display (OSD) user interface. Full control of all relevant display and interface parameters via OSD.

• Multiple mounting options (Wall/ VESA/ Benchtop Stand/ Pedestal Mounting) for better stability.

• Meets IP-67 requirements.
## LCD Display

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Size</td>
<td>21.5 inch</td>
</tr>
<tr>
<td>Resolution</td>
<td>1920 x 1080 Full HD</td>
</tr>
<tr>
<td>Backlight Lifetime</td>
<td>50,000</td>
</tr>
<tr>
<td>Colors</td>
<td>16.7 Million</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
</tr>
<tr>
<td>Viewing angle(V/H)</td>
<td>178°/178°</td>
</tr>
<tr>
<td>Response time</td>
<td>14 ms</td>
</tr>
<tr>
<td>Pixel Pitch(mm)</td>
<td>0.248 x 0.248</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1000:1</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 nits</td>
</tr>
</tbody>
</table>

## Touchscreen

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>Projected Capacitive</td>
</tr>
<tr>
<td>Touch Rating</td>
<td>50 Million Touches</td>
</tr>
<tr>
<td>Interface</td>
<td>Remote IN port</td>
</tr>
</tbody>
</table>

## Technical Information

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmitter signal type</td>
<td>Video(HDMI/VGA, DVI, SDI, DP, CVBS,YPbPr), Audio, Touch Control, keyboard/mouse, Ethernet, Power. 350MHz</td>
</tr>
<tr>
<td>Video bandwidth</td>
<td>Cat5e/Cat6/Cat7 cable</td>
</tr>
<tr>
<td>Transmission distance</td>
<td>Supports 4K/60Hz and 2K/60Hz video signal up to 330ft, 1080P video signal up to 495ft</td>
</tr>
</tbody>
</table>

## OS Support

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS Support</td>
<td>Windows 7 &amp; up</td>
</tr>
</tbody>
</table>

## Power/Thermal Specs

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Requirement (Max)</td>
<td>48V DC Power input</td>
</tr>
<tr>
<td>Power Consumption (Max)</td>
<td>38 W</td>
</tr>
<tr>
<td>Recommended Power Supply</td>
<td>55 W</td>
</tr>
<tr>
<td>Heat Dissipation</td>
<td>130 BTU/hr</td>
</tr>
</tbody>
</table>

## Mechanical Information

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting</td>
<td>Pedestal, VESA/Wall/Benchtop/Pedestal mounting</td>
</tr>
<tr>
<td>Physical Dimension(L x H x D)</td>
<td>Display: 20.94 x 12.98 x 3.69 inch/ 532.0x 329.8 x 93.7 mm Extender Transmitter: 6.19 x 4.04 x 1.45inch/ 157.0x 103.0 x 37.0mm</td>
</tr>
</tbody>
</table>

## Environmental Information

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation temperature</td>
<td>0<del>50°C [32</del>122F]</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20<del>60°C [-4</del>140F]</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>5~95% RH [no condensation]</td>
</tr>
<tr>
<td>IP/MENA Rating</td>
<td>Meets NEMA 4X</td>
</tr>
</tbody>
</table>
Open the package and inspect items carefully to make sure no item is damaged and all items listed are present in the package.

ADM-2121AX waterproof industrial display x1
ARD-1007A Extender Transmitter x1

6 feet HDMI cable x1
6 feet RS-232 cable x1
Waterproof RJ45 Cable x1

6 feet USB cable x1
AC/DC power adapter x1
AC power cable x1
Chapter 2  Basics - Product overview

ADM-2121AX Waterproof Display

USB device port: Connect mouse or keyboard for control of the connected computer.
Remote In port: Connect video extender transmitter (ARD-1007ATX or ARD-5816TX) for transmitting power audio, control, network and video signals via CAT5e/6 LAN cable.
RJ45 LAN port: for network connection, connect to network device.
ADM-2121AX Waterproof Display
**ARD-1007A Extender Transmitter (TX)**

**Front**
- **USB port**
- **IR Remote control(In/Out)**
- **RS-232 IN**
- **HDMI IN**
- **Service**
- **LED indicators**
- **48V DC IN**
- **LOCAL OUT**

**Rear**
- **HDMI Loop Out**
- **LAN1_HUB_LAN2**
- **HDMI Loop Out**
- **48V DC IN**
- **LOCAL OUT**

<table>
<thead>
<tr>
<th>Connector</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-232 In</td>
<td>RS-232 signal source input(Touch signal input).</td>
</tr>
<tr>
<td>HDMI In</td>
<td>HDMI video signal source input.</td>
</tr>
<tr>
<td>USB</td>
<td>Connect to a PC via USB cable(for inputting touch/keyboard/mouse signal etc.)</td>
</tr>
<tr>
<td>IR Remote control(In/Out)</td>
<td>Connect to a Remote control connector terminal for remote control on the display.</td>
</tr>
<tr>
<td>Service</td>
<td>For debugging use</td>
</tr>
<tr>
<td>LED indicators</td>
<td>Power indicator: Lights in green- the unit is powered on. Link indicator: Lights in green-the network connection works well.</td>
</tr>
<tr>
<td>48V DC IN</td>
<td>48V DC power input</td>
</tr>
<tr>
<td>HDMI Loop Out</td>
<td>HDMI video signal output to display.</td>
</tr>
<tr>
<td>LOCAL OUT</td>
<td>Connect ADM-2121AX for transmitting all signals via CAT5e/6 LAN cable.</td>
</tr>
<tr>
<td>LAN1_HUB_LAN2</td>
<td>For network connection, connect to network device.</td>
</tr>
</tbody>
</table>
ARD-5816TX 16-Way Digital Extender Cluster (Optional)

1. LED Indicators
2. USB Service connector
3. Remote control IR connector
A, B, C, D, E, F, G, H. Extender Transmitter channels - Input and output connectors for 16 channels (16-Way) of different signal transmission.

Front View

1. LED Indicators
2. USB Service connector
3. Remote control IR connector
A, B, C, D, E, F, G, H. Extender Transmitter channels

Rear View

4. Power button
5. AC power input jack
The diagrams below show the physical dimensions of the ADM-2121AX waterproof industrial display.

**ADM-2121AX Waterproof Display**
ARD-1007A Extender Transmitter (TX)
ARD-5816TX Digital Extender Cluster

Bottom View

Front View

482.0mm 18.98"
466.0mm 18.33"
222.2mm 8.75"
133.5mm 5.26"
262.2mm 10.32"
4 x R.09 2.25"
This section describes connections/connectors available on the ADM-2121AX waterproof industrial display.

Warning! Make sure your display is grounded at all times, it should be on the same ground as any other equipment connected to its communication ports.

Connectors are located at the bottom of ADM-2121AX waterproof industrial display.

Connectors are located at the front and rear of ARD-1007A HDMI Extender Transmitter.
There are two methods available to install the ARD-1007A HDMI digital extender transmitter (ARD-1007ATX): Wall mounting and DIN-rail mounting.

1. **Wall mounting**

The extender can be placed on a shelf, table, or mounted onto a wall or board. To mount it onto a wall or board, you will require the mounting screws found in the accessory box. Please follow the steps shown in the diagram below:

**Step1.** Situate the ARD-1007A HDMI digital extender transmitter (ARD-1007ATX) on a board or a wall. Firmly secure it by screwing it in with the four "#8-32UNC" sized screws.  
**Step2.** Make sure that the ARD-1007A HDMI extender transmitter is correctly and securely seated onto the board or wall.
2. DIN-Rail mounting

- As shown in the figure below, please follow the steps to mount the ARD-1007A HDMI digital extender transmitter (ARD-1007ATX) via DIN-Rail.
- **Step 1:** The two metal clasps are pre-installed on the back of ARD-1007A HDMI digital Extender Transmitter(ARD-1007ATX), place one Din-Rail on the wall or board, and use a screwdriver to tighten the screws to affix the Din-Rail onto the wall or board.
- **Step 2:** Snap the metal clasp by the built-in iron loop spring on the Din-rail to mount the ARD-1007ATX onto the wall or board.
- **Step 3:** You can also slide ARD-1007ATX around the Din-rail to move it to a desired position.
- To remove the ARD-1007ATX from Din-rail, press the iron loop spring built-in the metal clasp on the rail to loose it, then remove the ARD-1007ATX from the rail.
In order to correctly install the ARD-1007A Extender Transmitter, the specific dimensions are indicated in the diagram below.
This section outlines how to mount the ADM-2121AX waterproof industrial display. There are four methods available: VESA Mounting, Wall Mounting, Benchtop Stand Mounting and Pedestal Mounting. Users may choose any of the four mounting methods to suit their needs.

1. VESA Mounting

VESA FDMI Standard” stands for Video Electronics Standards Association Flat Display Mounting Interface Standard. The ADM-2121AX waterproof industrial display needs to be mounted on a VESA-compliant arm or bracket. And holes are pre-drilled on the back of it.

As shown in the figure below, please follow these steps to mount the display.

- **Step 1**: Place the metal mounting plate on the back of the ADM-2121AX waterproof industrial display, and align holes on the mounting plate with holes on the display.
- **Step 2**: Use a screwdriver to tighten the six “#8-32UNC” sized screws to fix the metal mounting plate on the display (Generally, the metal mounting plate is pre-installed on the back of the ADM-2121AX waterproof industrial display.).
- **Step 3**: Place the metal board on the VESA bracket, and tightly bolt four screws to the VESA bracket and metal board.
- **Step 4**: Place the VESA bracket with the metal board on the wall or board, and align holes on the VESA bracket with holes on the wall or board.
- **Step 5**: Use a screwdriver to tighten screws and fix the VESA bracket on the wall or board.
- **Step 6**: Mount the display onto the wall or board through the metal mounting plate and VESA bracket. Ensure that the display is securely situated onto the wall or board.

![Diagram showing the steps to mount the display](image-url)
Physical dimensions for VESA mounting

532.0mm  
20.94"

93.7mm  
3.69"

57.7mm  
2.27"

329.8mm  
12.98"

207.4mm  
8.17"

431.0mm  
16.97"

78.7mm  
3.10"

93.7mm  
3.69"
2. Wall mounting

As shown in the figure below, please follow these steps to mount the display.

- **Step 1**: Place the metal mounting plate on the back of the ADM-2121AX waterproof industrial display, and align holes on the mounting plate with holes on the display.
- **Step 2**: Use a screwdriver to tighten the six "#8-32UNC" sized screws to fix the metal mounting plate on the display.
- **Step 3**: Place the VESA bracket on the wall or board, and align holes on the VESA bracket with holes on the wall or board.
- **Step 4**: Use a screwdriver to tighten screws to fix the VESA bracket onto the wall or board.
- **Step 5**: Mount the display onto the wall or board through the mounting plate and VESA bracket. Visually inspect the display to be sure that it is properly and securely situated onto the wall or board.
Physical dimensions for Wall mounting

- 532.0mm (20.94"
- 431.0mm (16.97"
- 329.8mm (12.98"
- 207.4mm (8.17"
- 93.7mm (3.69"
- 78.7mm (3.10"
- 3.94 inch (100.0mm
- 5.20 inch (132.0mm
- 4.09 inch (104.0mm
- 3.94 inch (100.0mm
3. Benchtop stand mounting

The ADM-2121AX waterproof industrial display can be placed on a table or bench by mounting it onto the metal benchtop stand. To mount it onto the benchtop stand, you will require mounting screws found in the accessory box.

As shown in the figure below, please follow these steps to mount the display.

Step 1: Place the metal mounting plate on the back of the ADM-2121AX waterproof industrial display, and align holes on the mounting plate with holes on the display.

Step 2: Use a screwdriver to tighten six “#8-32UNC” sized screws to fix the metal mounting plate on the display.

Step 3: Take the metal benchtop stand, and place the ADM-2121AX waterproof industrial display into the benchtop stand. Mount the display onto the benchtop stand through the mounting plate and VESA bracket on the metal benchtop stand. Visually inspect the computer to be sure that it is securely situated onto the benchtop stand.
Physical dimensions for Benchtop Stand mounting

- 532.0mm (20.94"
- 329.8mm (12.98"
- 329.4mm (12.98"
- 78.7mm (3.10"
- 93.7mm (3.69"
- 286.6mm (11.28"
- 215.0mm (8.46"
- 57.7mm (2.27"
- 207.4mm (8.17"
- 13.6 (0.54"
- 2.0mm (0.079"
- 169.7mm (6.68"
- 532.0mm (20.94"
- 429.4mm (16.91"
- 532.0mm (20.94"
- 532.0mm (20.94"
4. Pedestal Mounting

The ADM-2121AX waterproof industrial display can be mounted on the pedestal. In general, the pedestal comes with a removable shaft or bracket, which allows the display to be easily operated.

As shown in the figure below, please follow these steps to mount the display.

**Step 1:** Place the metal mounting plate on the back of the ADM-2121AX waterproof industrial display, and align holes on the mounting plate with holes on the display.

**Step 2:** Use a screwdriver to tighten the six "#8-32UNC" sized screws to fix the metal mounting plate on the display.

**Step 3:** Take the pedestal and fit on a firmly fixed shaft or bracket through the shaft hole or screw hole. Mount the display onto the pedestal through the mounting plate.

**Step 4:** Make sure the ADM-2121AX waterproof industrial display is securely and correctly seated onto the pedestal.
If you have ADM-2121AX waterproof display and ARD-1007A Digital extender transmitter, follow the steps below to connect the ADM-2121AX waterproof display to ARD-1007ATX:

1. Connect the HDMI cable and RS-232 cable (touch signal) between the ARD-1007ATX and your PC (BOX PC-138G01) for HDMI signal input.
2. Connect the PC and the ARD-1007ATX (USB Host connector) via USB cable for controlling by mouse and keyboard on the touch display screen.
3. Connect the display monitor and the ARD-1007ATX (HDMI Loop Out connector) by HDMI cable.
4. Connect one end of the Cat5e/Cat6 cable to the Local Out connector of ARD-1007ATX, and connect the other end to the Remote In port on the side of the ADM-2121AX.
5. Insert a USB device or USB keyboard on the ADM-2121AX if you have USB connection between the PC and ARD-1007ATX.
6. Connect one end of the supplied power adapter to DC48V power connector of the ARD-1007ATX, and connect the other end to the wall AC outlet.
7. If you require network connection, connect either the LAN1_HUB_LAN2 port on the ARD-1007ATX or LAN port on the ADM-2121AX to a Router, and connect the other LAN port to your desired network device.
Method 1:
If you have ADM-2121AX waterproof display, ARD-5816TX 16-way Digital Extender Cluster and computer, you can:

1. Connect the Video cable (HDMI/SDI/DISPLAY/DVI/VGA cable) and USB cable (touch/Mouse/keyboard signal) between the ARD-5816TX and your PC (Arista BoxPC-138-G01) for video signal input.

2. Connect the display monitor and the ARD-5816TX (HDMI/SDI/DISPLAY/DVI Out connector) by video cable.

3. Connect one end of the Cat5e/Cat6 cable to the Local Out connector of ARD-5816TX, and connect the other end to the Remote In port on the side of ADM-2121AX display.

4. Insert a USB mouse or keyboard on the ADM-2121AX for controlling on PC if you have USB connection between the PC and ARD-5816TX.

5. Connect one end of the supplied power adapter to the ARD-5816TX, and connect the other end to the wall AC outlet.

6. If you require network connection, connect either the LAN port on the ARD-5816TX or LAN port on the ADM-2121AX to a Router, and connect the other LAN port to your desired network device.
Method 2:

If you have ADM-2121AX waterproof display, ARD-5816TX 16-way Digital Extender Cluster and media player, you can:

1. Connect the ARD-5816TX (CVBS IN connector and AUDIO/SPDIF IN connector) and a DVD player for CVBS/YPBPR signal input.
2. Connect a display monitor to the CVBS/YPbPr OUT connector on the ARD-5816TX.
3. Connect one end of the Cat5e/Cat6 cable to the Local Out connector of ARD-5816TX, and connect the other end to the Remote In port on the side of ADM-2121AX display.
4. Connect one end of the supplied power adapter to the ARD-5816TX, and connect the other end to the wall AC outlet.

- Make sure your Cat5e/Cat6 cable is correctly connected and not loose.
- Make sure all cables have been connected properly before using the units.
Regular maintenance of the ADM-2121AX waterproof industrial display can help prevent damage or downtime.

**Warning!** Do not operate or service the unit with its chassis open. There are hazardous voltages inside. Service should only be performed by qualified and authorized personnel. Make sure your industrial display is powered down and unplugged before removing the cover or working on internal components.

**Replacing the Backlights**

LCD backlights are rated at the number of hours of operation until they are at half of their original brightness. The ADM-5821AX industrial waterproof display backlights are rated at 50,000 hours — that equates to six years of continuous service.

Signs that the backlights may need replacing include:

1) The top and/or the bottom of the screen is dim.
2) The image on the screen flickers.
3) The video appears to be blank in normal light, but can be very faintly seen in strong external light.

**Note:** The backlights are not user serviceable. If the backlights need to be replaced, you must return the unit to Arista for service.

**Troubleshooting on display**

Before calling for service, you can check the following table on symptoms and solutions.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Causes</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>No LCD display image</td>
<td>- No power</td>
<td>- Check if the Cat5e/Cat6 cable is connected properly.</td>
</tr>
<tr>
<td></td>
<td>- No video signal</td>
<td>- Check to see that the video source is on and operating, Perhaps the source is outputting to a different display.</td>
</tr>
<tr>
<td>Half of the image is dark</td>
<td>- Problem with the backlights</td>
<td>- Contact Arista customer support.</td>
</tr>
<tr>
<td>LCD image is too bright or too white</td>
<td>- Adjustments</td>
<td>- Verify the supplied video format.</td>
</tr>
<tr>
<td></td>
<td>- Unrecognizable sync patterns</td>
<td>- Contact Arista customer support.</td>
</tr>
<tr>
<td>LCD image is not centered</td>
<td>- Adjustments</td>
<td>- Verify the supplied video format.</td>
</tr>
<tr>
<td></td>
<td>- Unrecognized video format</td>
<td>- Contact Arista customer support.</td>
</tr>
<tr>
<td>Display jitters or flickers</td>
<td>- Adjustments</td>
<td>- Contact Arista customer support.</td>
</tr>
</tbody>
</table>
Troubleshooting on ARD-1007A HDMI extender transmitter (ARD-1007TX)

No power
• Verify that the power LED is lit.
• Insert the power plug properly into the power outlet.
• Check if there is power at the AC outlet by plugging another device for a test.

No signal
• Check if all cables are connected correctly.
• Check if your PC or system is turned on.

No signal on the display
• Check if the Cat5e/Cat6 cable is connected properly.

The video signal is not stable
• Check if connectors are in good condition.

Video signal with snow
• Faulty Cat5e/Cat6 cable, replace with a good one.
• Power cable is connected poorly, reconnect it.

No touch function with the display
• Check if the RS-232 cable for touch screen is connected properly.

The mouse or keyboard doesn’t work
• Check if USB cable between your PC and ARD-1007TX is connected properly.

No network connection
• Check if all the connector cable on the LAN ports are connected properly.
• Check if the Router connected to LAN port work in normal.
What does ‘refresh rate’ mean in relation to an LCD display?
The refresh rate is of much less relevance for LCD displays. LCD displays stay at a stable, flicker-free image at 60Hz. There is no visible difference between 85Hz and 60Hz.

Are LCD display Plug-and-Play?
Yes, the displays are Plug-and-Play compatible with Windows 7 and up.

What is a Liquid Crystal Display?
A Liquid Crystal Display (LCD) is an optical device that is commonly used to display ASCII characters and images on digital items such as watches, calculators, portable game consoles, etc. LCD is the technology used for displays in notebooks and other small computers. Like light-emitting diode and gas-plasma technologies, LCD allows displays to be much thinner than cathode ray tube (CRT) technology. LCD consumes much less power than LED and gas-displays because it works on the principle of blocking light rather than emitting it.

What is polarization?
Polarization is basically directing light to shine in one direction. Light comes in the form of electromagnetic waves. Electric and magnetic fields oscillate in a direction perpendicular to the propagation of the light beam. The direction of these fields is called the ‘polarization direction’. Normal or non-polarized light has fields in several directions; polarized light has a field in only one direction.

What kind of wide-angle technology is available? How does it work?
The TFT LCD panel is an element that controls/displays the inlet of a backlight using the dual-refraction of a liquid crystal. Using the property that the projection of inlet light refracts toward the major axis of the liquid element, it controls the direction of inlet light and displays it. Since the refraction ratio of inlet light on liquid crystal varies with inlet angle of the light, viewing angle of a TFT is much narrower than that of a CRT. Usually, viewing angle refers to the point where contrast ratio is 10. Many ways to widen viewing angles are currently being developed and the most common approach is to use a wide viewing angle film, which widens the viewing angle by varying the refraction ratio. IPS (In Plane Switching) or MVA (Multi Vertical Aligned) are also used to give a wider viewing angle.
Arista ADM-2121AX waterproof industrial display sold in the U.S.A and Canada comes with two-year warranty. Arista warranty obligations for its products are limited to the terms & conditions listed below.

1. Limited Warranty Coverage
   • If the purchased product does not work due to defect in materials, starting after three years from the date of purchase (invoice date), Arista Corporation will repair or replace with new or refurbished product or parts.
   • Arista Corporation holds every right to decide for repair or replacement of any product or part. During the “labor” limited warranty period there will be no charge for labor and during the “parts” limited warranty, there will be no charge for parts.
   • Customers should ship the defective product or parts to Arista Corporation at their expense. After repair or replacement, Arista will pay for shipping via UPS Ground back to the customer.
   • This limited warranty applies to products and services only in the North America region. Arista Corporation will not pay for any shipping for product or parts for any location outside of United States.

2. Exclusions and Limitations
   • Limited warranty is applicable to defect in material or workmanship, it does not cover any general wear and tear, or cosmetic damaged.
   • Damage due to external causes, including, but not limited to, failures which are caused by products not supplied by Arista Corporation. Also adding or altering any component without any prior concurrence from Arista Corporation technical support.
   • Limited warranty does not apply to damages caused by failure or negligence, this include accidents, misuse, abuse, mishandling, misapplication, alteration, faulty installation, set-up adjustment, improper maintenance, power surge issues with electrical stability, failure to maintain environmental conditions specified by the manufacturer, wrong attempt to relocate the system, lightning damage, modification, product servicing from unauthorized providers, inappropriate product usage without referring to the manual or instructions and any other change in product component without prior guidance from Arista Corporation technical support.
   • Any sighs of tempering/altering with serial number will void this warranty.
   • There is no expressed warranty except as stated under “Limited Warranty Cover-age”. Under no equitable theory shall Arista Corporation be held liable for monetary and/or non-monetary damage resulting from normal or abnormal usage of our products. Use, distribution and/or similar engagement of our products constitute implied agreement to these and similar Arista Corporation limited liability policies.

3. Technical Support
   • Arista Corporation entire team is dedicated towards customers’ needs and requirements. Arista’s technical support team is available to resolve customer issues over phone and email. If required, an RMA number is issued to resolve.
   • Also, customers are required to keep the product serial number handy when reaching the technical support.
   • Arista Corporation technical support can be reached at Monday through Friday 8:00am to 5:00PM PST at 510-226-1800 ext.400, Fax 510-226-1890 or email support@goarista.com.
4. RMA (Return Material Authorization) Procedures

- All return requests are provided with a number, please contact Arista customer service or complete RMA request form to obtain a number before returning any products or parts.
- Returns will be authorized in accordance with the following policy: If it is deemed that the unit/part should be returned, Arista’s customer service representative will give the customer a return authorization number and ship to address to return the product.
- Products will not be accepted by Arista RMA department if it is not accompanied by a valid RMA number. It should clearly marked on the outside of the package.
- Products must be returned within 30 days after the date of when RMA number was issued. After the 30-day period, the RMA number issued will be invalid. Please do not return products with an invalid RMA number; contact Arista’s customer service representative if your RMA number is invalid. Customer service can be reached at Monday through Friday 8:00am to 5:00PM PST at 510-226-1800 ext.400, Fax 510-226-1890 or email support@goarista.com.

Warranty Returns

- All returning products should be under applicable warranty period. After warranty period is over, the original product will be returned to the customer.
- The RMA number for Warranty Return will be issued within 24 hours from the time RMA application form is received by Arista.

Non-Warranty Returns

- If the customer wishes to return a product for repair that is no longer within the warranty period, or any kind of damage not covered by the warranty, an Arista sales representative will inform the customer of the estimated cost of the repair.
- Return of the product will be counted as the authorization to repair and agreement to pay for the cost of repair, whether or not it exceeds the original estimate.

5. RMA Credit Policy

Returns for Credit & Credit Types

Returns for credit that require Arista’s management approval may take up to 48 hours for processing/approval. Products can be returned for credit with the following conditions:

- Dead on Arrival (DOA): The customer must report DOA units to Arista’s RMA department within 14 calendar days after the product is received. Customer can request either return for credit or replacement. If replacement is requested, Arista will ship the replacement in 7 calendar days and invoice the customer for the replacement. A credit memo will be issued to the customer after the DOA product is received and verified.
- Evaluation Return: The customer must notify Arista’s RMA department before or at the end of the evaluation period if the customer decides to return the evaluation unit. An RMA number must be obtained from Arista prior to returning the unit.
- Short Shipment: The customer must report for any item received short-shipped or wrong products received in 7 calendar days after the product is received. The customer can request either: shipment of missing items, replacement of wrong items or return for credit. If shipment of missing items or replacement of wrong items is requested, Arista will ship the replacement in 7 calendar days. A credit memo will be issued to the customer after the returned product is received and verified.
- Non-Open-Box Return: In the event where a customer places an incorrect order, over stock or double orders, the customer can request return for credit with the following restocking fees applied.
• Restocking Fee: A 15% restocking fee will apply to non-open-box returns when returned within 3 months after invoice date. A 30% restocking fee will apply to non-open-box returns returned within 6 months. Beyond 6 months after invoice date, a 50% restocking fee will apply to non-open-box returns returned within 12 months. Beyond 12 months after invoice date, Arista will not grant authorization to return non-open-box returns for credit.

• Return Condition: All valid returns for credit products must be returned in its original packaging and in good condition along with all the items and accessories originally shipped with the product. Any damages will be assessed and the cost of repair or refurbishment will be deducted from the credit issued.

• No Credit DOA: No credit will be given to the customer for DOA products received by Arista beyond 30 calendar days after the invoice date. No credit will be given to all non-cancellable, non-returnable, custom order parts.

6. RMA Transportation Policy

Transportation Charges

• All customers are responsible for all freight charges involved in shipping defective products back to Arista Corporation.

• Arista Corporation will cover the cost of returning products that are under warranty via UPS Ground to customers in the United States after repair or replacement.

• International customers are responsible for all transportation, insurance, customs and other similar charges for all returned products shipped outside of the United States and must ensure that the product is appropriately packed.

• Shipping damages resulting from improper packaging will be customer’s responsibility.

• Arista is not responsible for products lost during shipment. All products being returned for Limited Warranty repair or replacement must be sent freight prepaid.

Transportation Damages

• In cases of transportation damage, the customer is responsible for filing all claims with the shipping carrier.

• To avoid any potential risk that an RMA product is lost or damaged while in transit to Arista, it is recommended that the customer insures and declares the full value of the RMA product. The customer is 100% responsible for the RMA product while in transit to Arista.

• We urge customers to pack the RMA product carefully to avoid transit damage.

Refused Shipment Restocking Fees

• If a customer refuses a shipment, credit will be issued only after the refused product is received and verified by Arista. The shipping charge plus 15% restocking fees will be billed to the customer.
7. RMA Transportation Policy

Product Non-Acceptance

- Products will not be accepted by Arista Corporation if not accompanied by a valid RMA number, which must be clearly marked on the outside of the package.
- Any products refused by Arista will incur fees and/or charges applied by the shipping carrier, and shall be the sole liability of the original shipper.

Sample RMA Shipping Label

ARISTA CORPORATION
Attention: RMA Department
40675 Encyclopedia Circle
Fremont, CA 94538
RMA: # ______________

Package Identification

- Each box must have reference for the following information: Customer/Contact Name
- Return Address have Phone Number • RMA Number (issued by an authorized ARISTA source).
- The RMA number must be written on the outside of the shipping container for identification purposes.
- Shipments not properly identified will be refused.
- To avoid any discrepancy of items received, please do not return accessories (manuals, driver CDs, OS CDs, cables, etc.) with the RMA unit in need of repair.
- If available, use the original box/packaging to ship back RMA units to avoid transit damage.

RMA Rejection Policy

Arista reserves the rights to return any RMA product received that does not comply with the information given on the original Return Material Authorization (RMA) request, such as:

- Invalid RMA number
- RMA number not visible and/or not on the box shipping label
- RMA condition described by the customer differs from the actual condition of the product
- Expired RMA number
- Unauthorized return (no RMA # was issued)
- No Arista serial number on the product
- Product is physically damaged

If you have any questions regarding Arista’s RMA procedures, product return policies and/or other similar issues, please call Arista’s Customer Service and RMA Department during office hours, Monday through Friday (8:30am-5:30pm PST)

- Phone: (510) 226-1800 ext. 400
- Fax: (510) 226-1890
- Email: rma@goarista.com
8. Arista’s Limited Liability
Product Non-Acceptance

• Arista Corporation is not liable for incidental or consequential damages resulting from the use of Arista products or arising out of any breach of Arista's full limited warranty.

• Under no equitable theory shall Arista Corporation be held liable for monetary and/or non-monetary damages resulting from the normal or abnormal usage of our products. Use, distribution and/or similar engagement of our products constitute implied agreement to these and similar Arista Corporation Limited Liability policies.

• Arista Corporation is not liable for damages or reimbursement for lost time, lost revenue, and cost of having someone remove or re-install an installed unit if applicable, or travel to and from the service providers.

• All expressed and implied warranties, including the limited warranty of Merchantability are limited to the period of the limited warranty, unless, otherwise, indicated in writing by Arista Corporation.

9. Customer Responsibilities

• By requesting service, the eligible customer acknowledges the terms of the limited warranty, including the disclaimer and limitation of liability provision.

• Prior to seeking service, customers must back-up all data, programs, files and/or similar digital documents that may become damaged and/or lost due to service.

• Arista Corporation, WITHOUT LIMITATION, is not responsible for lost, damaged or otherwise destroyed data due to service.
Arista ADM-2121AX waterproof industrial display must be disposed as per the local laws and regulations applicable to that location. Once the product reaches end of its life cycle and needs to be disposed, local authorities should be contacted for appropriate options.

This symbol on the product or in the manual means that electrical or electric equipment should be disposed at the end of its life-cycle separately and not in the regular household waste. There are separate collection systems for recycling in the EU. For more information, please contact your local authorities or your retailer where you purchased the product.

Disclaimer
All the information, design and specifications contained in this manual were correct in this publication. However, as the product goes under continuous upgrades and changes, the final device may have slight differences. The contents of this manual are subject to changes without prior notice, and Arista Corporation shall not be liable for any errors contained herein or for incide or consequential damages in connection with the furnishing, performance, or use of this manual.

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