ADCHOICE
LED SIGNS

Indoor Series

Installation Guide

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V012116

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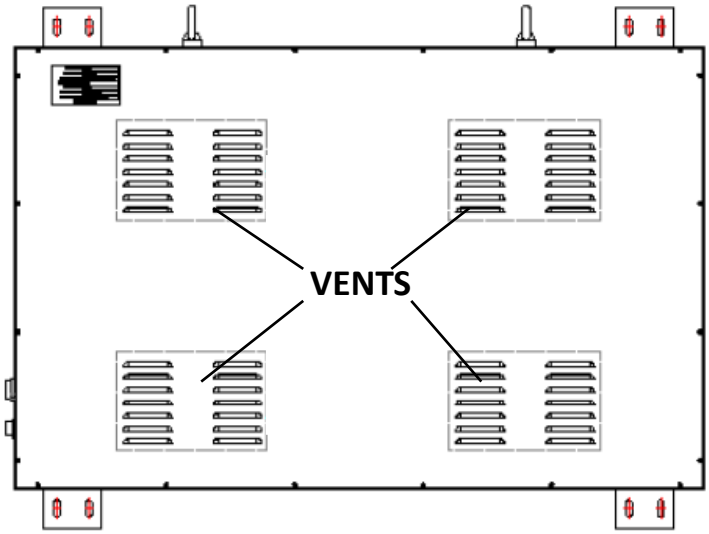
INSTALLATION OVERVIEW

Following the basic guidelines contained in this manual will assist in getting your ***AdCenter Indoor Series*** LED advertising display operational quickly and successfully. The ***AdCenter Indoor Series*** display is not designed for outdoor applications and should only be installed indoors. More detailed instructions are found in corresponding sections of this manual. Verify that each of the following steps and requirements are accounted for before beginning installation.

VENTILATION

Ensure that adequate ventilation is provided behind each display. Exhaust vents are on the back of each cabinet. Adequate ventilation is required to keep the display cool. Blocking the air intakes could result in serious damage to the internal components of the display.

Display Ventilation

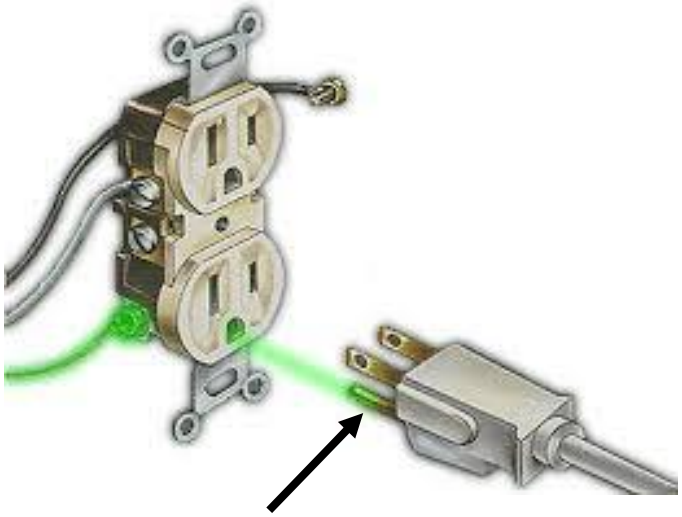


Rear View

ELECTRICAL AND GROUNDING

Use the provided power input on the display. Do not attempt to move the location of the incoming power on the sign. Drilling holes, or attempting to move the power input location may damage internal components, and will void your warranty. Verify the electrical service being provided is correct and matches the electrical service required by the sign. Power required to operate your display is 120VAC. If there is a discrepancy in the power, contact **AdChoice** LED Signs before connecting.

For safety and optimal sign performance, ensure that the electrical outlet for the display is a 3 pronged earth grounded outlet. The third prong ensures your sign has a ground to earth. Failure to operate the sign from a grounded outlet can result in premature component failure and voiding of your warranty.



Earth Ground

For additional assistance, please contact AdChoice Technical Support at 603-382-9280 or by email at techsupport@adchoiceledsigns.com.

COMMUNICATION METHODS

The communication protocol between your computer and your display is TCP/IP (Ethernet). For ease of setup a router is recommended as part of the computer system. Data connections will vary depending on your specific set up and configuration.

DATA CABLES AND CONNECTIONS

CAT5 Ethernet cables are used for communication with your displays. The maximum length of the cat5 cable between your network and sign cannot exceed 300 feet. Use the provided data opening in the display cabinet to make your network connection. Do not drill any additional holes in the cabinet, or attempt to move the data input location. Doing so could damage internal components and will void your warranty.

SOFTWARE

A disk with the ***iCreate*** content creation software and additional documentation is provided with each system. Install ***iCreate*** software on the controlling and/or client computer to set up the sign on the network, and to begin creating content for your display.

ONLINE TRAINING

AdChoice LED Signs has a comprehensive library of training videos to assist you with learning the iCreate software. Please refer to the flyer included with your sign documentation or contact techsupport@AdChoiceLEDSigns.com to obtain the training videos.

TECHNICAL SUPPORT

For technical assistance, please contact AdChoice LED Signs by phone at (603) 382-9280 or via email at techsupport@AdChoiceLEDSigns.com with any questions or concerns regarding the installation, start-up, or maintenance of your ***AdChoice Outdoor Series*** LED display.

CLAIMS FOR SHIPPING DAMAGE

AdChoice LED Signs packages its LED displays properly for travel to their designated destinations. If, for any reason an LED Display does not arrive in satisfactory condition, please document any and all damage, both in writing and with photographs, and immediately forward this documentation to AdChoice LED Signs. This documentation is best done before the displays are unloaded, so that any necessary claims with transportation providers can be handled expeditiously with a minimum of dispute.

Structural Requirements

DISPLAY MOUNTING

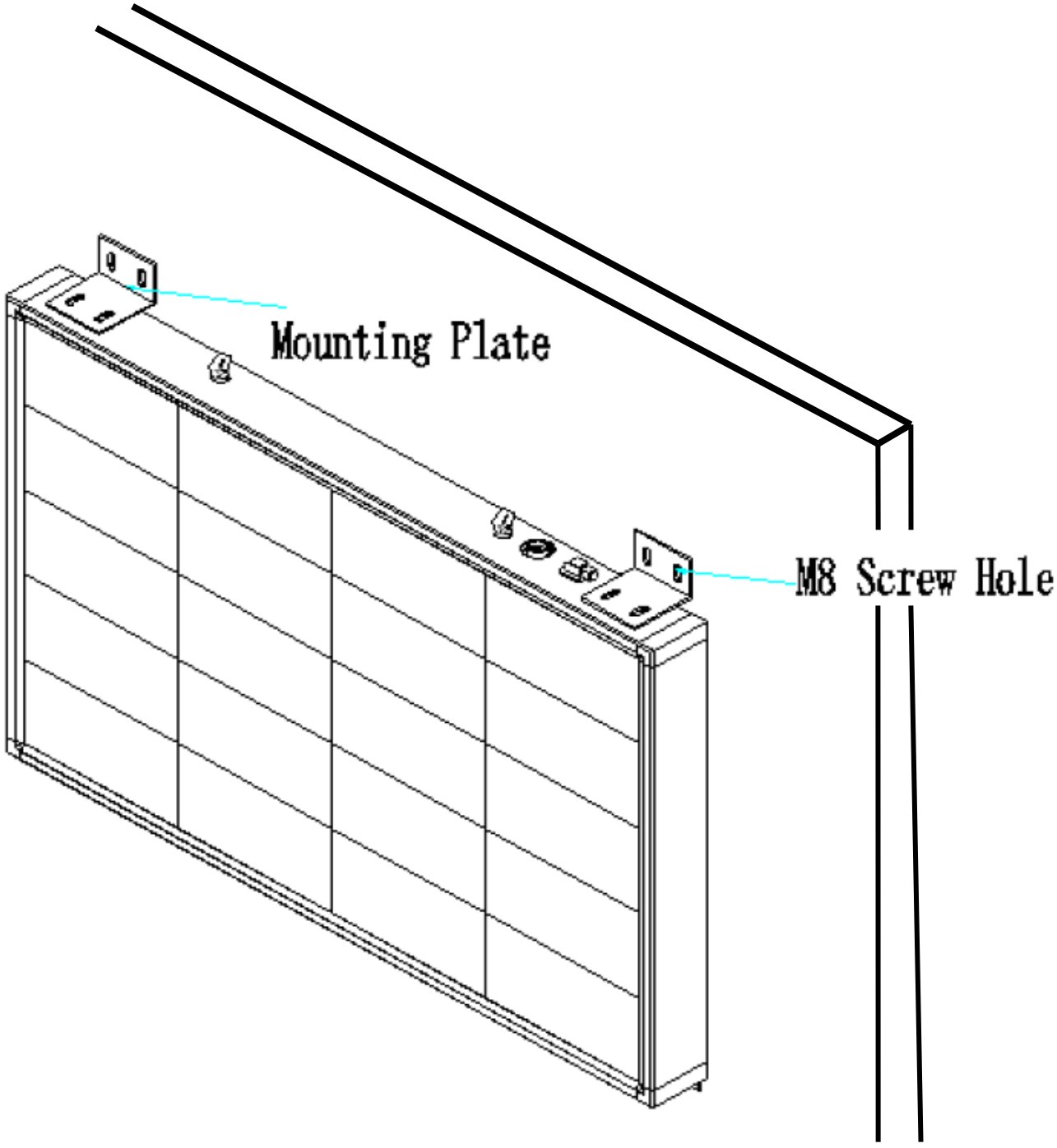
PRIOR TO MOUNTING THE DISPLAY(S), CAREFULLY INSPECT THE INTEGRITY OF THE STRUCTURE AND VERIFY IT IS SUFFICIENT TO HOLD THE WEIGHT OF THE DISPLAY. MAKE SURE ALL MOUNTING BOLTS ARE INTO A SOLID STRUCTURE, IE. WALL STUDS OR OTHER BUILDING FRAMING.

Before beginning the installation process, always verify the following:

- The mounting structure will provide a square and straight frame for the display.
- The mounting structure will support the display without flexing or buckling at any unsupported points after the mounting is complete.
- The finished structure will provide sufficient clearance on all sides of the display for ventilation.
- Mounting is accomplished using the displays mounting brackets, or hung by the lifting eyes on the top of the display.

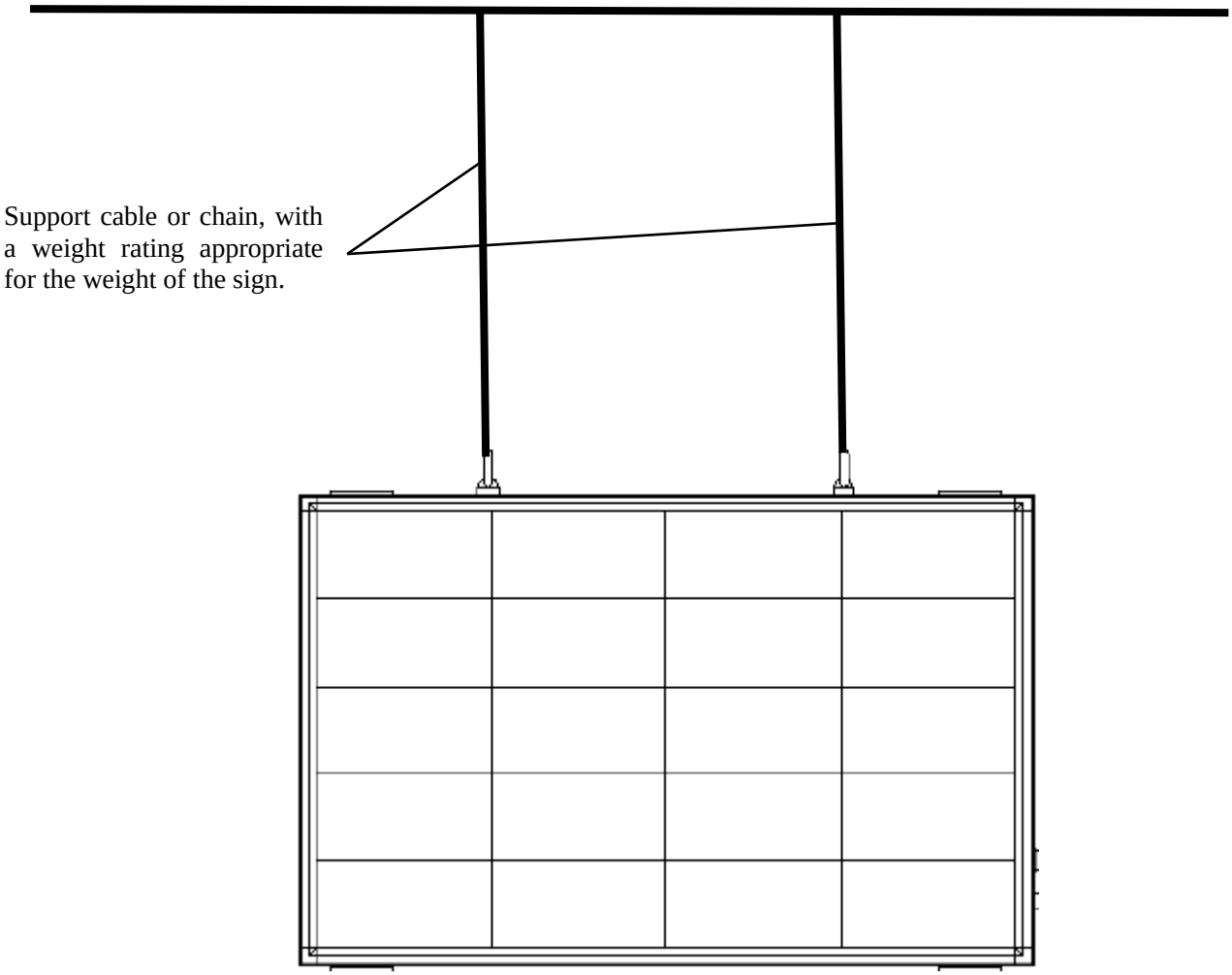
CAUTION: Ensure the mounting structure and hardware is able to support the display and the structure conforms to and meets local codes. AdChoice LED Signs cannot be responsible for the physical mounting, structural integrity or failure of the support structures provided by others.

Typical Wall Mount Installation



Typical Hanging Installation.

Ceiling Structure



Electrical Requirements

SERVICE REQUIREMENTS

All displays require a dedicated, 120-volt, single phase service (1 Hot, 1 Neutral and 1 Ground). Breaker and wire size requirements are display size and installation location specific. Electrical specs for your specific display are available on the specification sticker on the back of your display. A qualified licensed electrician will be able to use that information to determine exact breaker size and wire size.

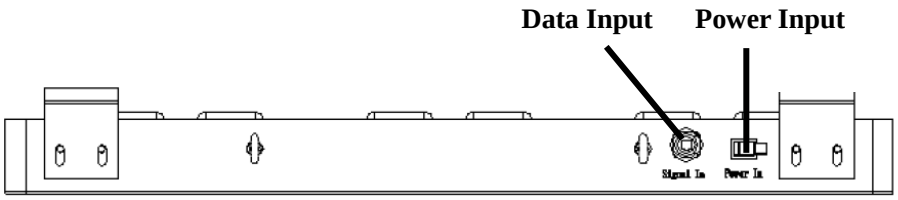
CODE REQUIREMENTS

All displays are intended to be installed in accordance with existing local codes, as well as with Article 600 of the National Electrical Code (NEC). This includes proper electrical grounding. Always consult with a licensed electrician to ensure that proper wire sizing is implemented, including accounting for voltage drop over long service runs.

Power and Data Inputs

The drawing below shows the typical power and data entry points on each cabinet.

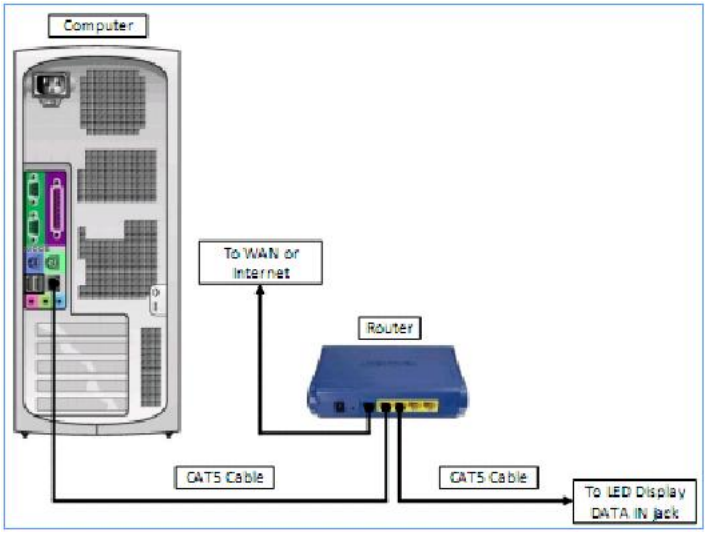
- **Data Input Jacks** – The Data Input Jacks are located on the top of the display cabinet.
- **Power Input** - The power input is located at the top of the sign cabinet.



TOP VIEW

Networking

Computer Connection Diagram – Cat 5 communication



The diagram above shows typical computer connections using Cat5 Ethernet. Your computer and router may differ.

1. Connect a CAT5 cable from the Ethernet jack on the computer to an open jack on the router. These jacks are usually numbered 1 through 4.
2. Connect a CAT5 cable from a router jack to the DATA IN port on the LED display.
3. CAT5 cable length should not exceed 300 feet.

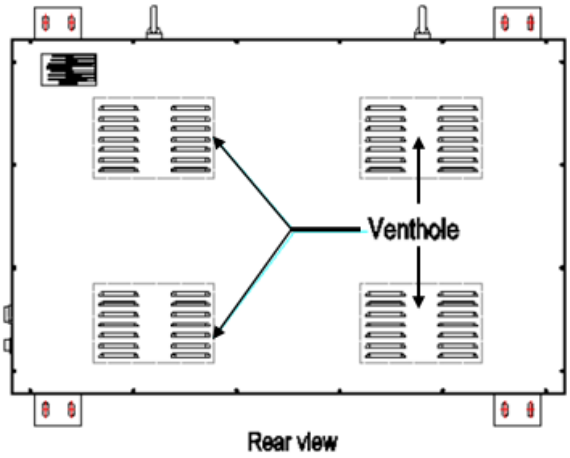
Note: The WAN port on the router is connected to the internet or other network as needed.

SIGN MAINTANENCE

Your AdChoice Indoor Series signs need very little maintenance but should be inspected from time to time to ensure they run smoothly for years to come. Below are some items that you should check periodically.

1. General inspection of the installation. This would be a basic walk around to look for any damage or issues that have developed over time.

2. Air Vents. Your sign is outfitted with air vents to keep the inside of the signs as cool as possible. This is a typical place for dust to build up. These should be monitored and cleaned periodically to ensure the vents operate as intended. Below is a drawing showing the positioning of the air intakes indicated by the arrows.



3. General cleaning of the sign. Make sure wipe down the signs periodically to prevent dust build up. Use a feather duster or soft microfiber cloth. Do not use water or any cleaning solution.

Caution Note

Please note the following operating details

- Environmental operating temperature is -4F ~ +100F; (-20C ~ +37C)
- Power supply demand is: 110V/AC; frequency is 60 Hz;
- As with any electronics, the display should be plugged into a surge protector. During bad weather/Thunderstorms the display should be unplugged from the electrical outlet.
- Please turn power off when moving any cable or repairing display.
- Do not run Ethernet network cables parallel with any power wiring/conduit. Always run Ethernet perpendicular to power wiring/conduit.
- When turning on or off the sign, it should be done in the following sequence:
    1. When turning on the display, the user should start the PC first, then turn on the LED display.
    2. When turning off the display the user should turn off the LED display screen first then the PC.
- **DO NOT** change any parameter in the software if you are not sure what it is.