



INSTALLATION INSTRUCTIONS

<u>Product</u>	<u>Revision</u>	<u>Form</u>
7160-1451	Rev. B	INST-985
13.3" TOUCH SCREEN		Printing Spec: PS-001

This instruction sheet is for the Gamber-Johnson Touch Screen only. For instructions on features, set-up, and operation of any computer or connected device, please refer to the manual provided with those products.

This touch screen is designed to be used with a variety of mounting systems. Installation instructions for other Gamber-Johnson products are provided with each individual product.

This instruction sheet is for the following products:

Item No. 7160-1451-00 Bare Wire Power, HDMI and USB Type B

The touch screen is designed to handle a 11-16Vdc input and Gamber-Johnson recommends using the bare wire cable included. The standard use voltage is 12Vdc and a minimum 5A. Gamber-Johnson offers the following Power Adapters to power the touch screen if needed in other environments. These Power Adapters can be ordered from Gamber-Johnson separately.

- 7300-0476** - AC (100-240Vac input) 2-prong standard AC plug
- 7300-0461** - Auto (11-16Vdc input) Bare Wire
- 7300-0462** - Auto (11-16Vdc input) Cigarette Adapter
- 7300-0464** - Isolated (12-32Vdc input) Bare Wire
- 7300-0465** - Isolated (20-60Vdc input) Bare Wire
- 7300-0417** - Isolated (72-110Vdc input) Bare Wire



Product Mounting Disclaimer

Gamber-Johnson is not liable under any theory of contract or tort law for any loss, damage, personal injury, special, incidental or consequential damages for personal injury or other damage of any nature arising directly or indirectly as a result of the improper installation or use of its products in vehicle or any other application. In order to safely install and use Gamber-Johnson products full consideration of vehicle occupants, vehicle systems (i.e., the location of fuel lines, brakes lines, electrical, drive train or other systems), air-bags and other safety equipment is required. Gamber-Johnson specifically disclaims any responsibility for the improper use or installation of its products not consistent with the original vehicle manufactures specifications and recommendations, Gamber-Johnson product instruction sheets, or workmanship standards as endorsed through the Gamber-Johnson Certified Installer Program.

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If you need assistance or have questions, call Gamber-Johnson at 1-800-456-6868.

PRE-INSTALLATION RECOMMENDATIONS

Gamber-Johnson (GJ) recommends the positioning of all mounts and equipment in the vehicle prior to the actual install to verify mounting locations are safe and practical.

Gamber-Johnson strongly advises a "bench test" be conducted to verify all electronic and software issues are resolved prior to installation. Follow these steps:

1. Make sure the computer functions by itself as intended.
2. Connect the touch screen and make sure it functions with the device.
3. Connect other equipment and verify start-up of all components and specific software (mouse, flashdrives, printers, etc.).

IMPORTANT SAFETY INFORMATION FOR INSTALLERS

Before Installation

Safety is dependent on the proper installation and servicing of this touch screen. It is important to read and follow all instructions before installing this product. Use proper mounting equipment or hardware to secure this touch screen.

Safety is a top priority for Gamber-Johnson. To properly install Gamber-Johnson equipment, you must have a good understanding of automotive electrical procedures and systems, along with proficiency in the installation and service of aftermarket vehicle equipment.

WARNING: Opening the touch screen will void the product warranty. There is no need to adjust the electrical components within the touch screen at any time.

During Installation

Do not install equipment or route wires or cords in the deployment path of any airbag.

When drilling into the vehicle, ensure both sides of the surface are clear of anything that could be damaged.

See the bare wire installation instructions on page 5 for safe and correct installation.

WARNING: If wiring is shorted to the frame, high current conductors can cause hazardous sparks resulting in electrical fires or flying molten metal.

After Installation

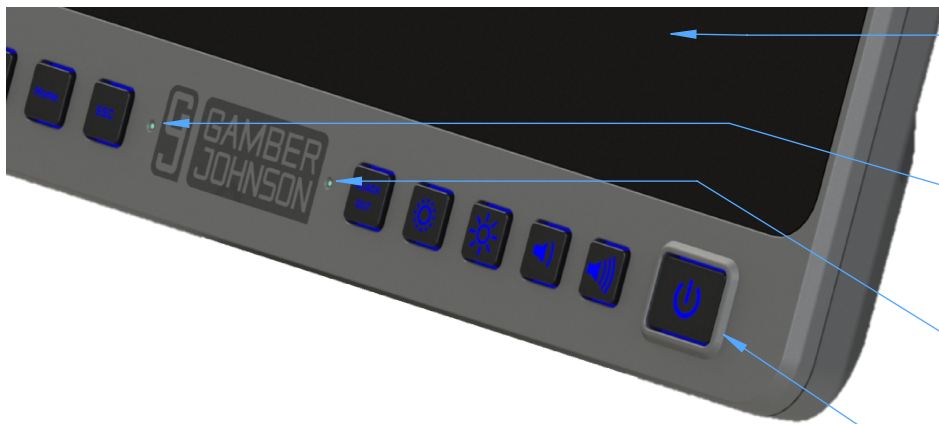
Test the touch screen to ensure it is working properly.

1. Do not use the screen if the power cable or plug is damaged.
2. Do not use the screen if water contacts the rear of the screen, the ports, or the speakers. Immediately disconnect power and ensure the system is dried.

File these instructions in a safe place and refer to them when performing maintenance or re-installing.

WARNING: Failure to follow all safety precautions and instructions may result in property damage, serious injury, or death.

FEATURE IDENTIFICATION



Touch Screen

5-point capacitive touch provides a highly responsive feel but will not work with gloves.

Power Indicator Light

No light indicates no power.
Red light indicates off.
Green light indicates on.

Auto Brightness Sensor

Detects ambient light and adjusts the screen brightness. Can be turned off in the MENU settings.

Quick Buttons

Provides quick access to adjust screen settings. See page 5.

Hanging Bracket

Designed to support the weight of the screen while aligning mounting bolts with GJ clevises. Remove if mounting to other options.

Mounting Pattern

VESA 75mm pattern, 1/4-20 threads

Part Number Label

Provides information on the product. Reference this information regarding any service needs.

Port Identification

Ports, see page 4.

Speakers

Two 5W speakers.

Contact-Friendly Edges

Cable Tie Bracket

Provides a location to secure each cable. See page 4.

Mounting Bolts

Four washers and 1/4-20 x 0.500" hex head bolts.

Bare Wire Power Cable

Used for 11-16Vdc input.

HDMI Cable

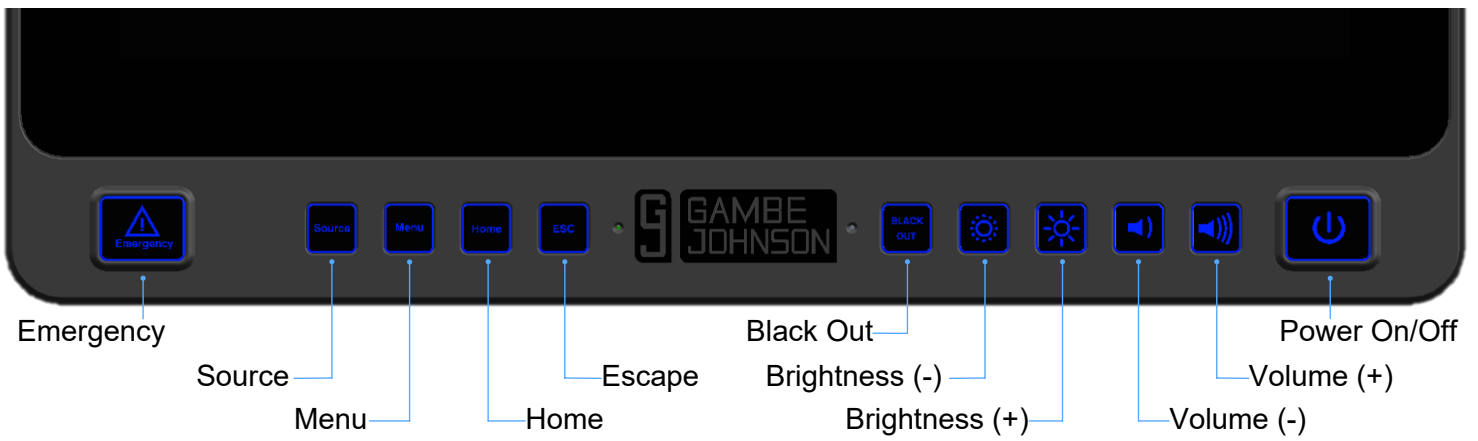
Used for video input. VGA or USB-C can also be used for video input.

USB2.0 Type B Cable

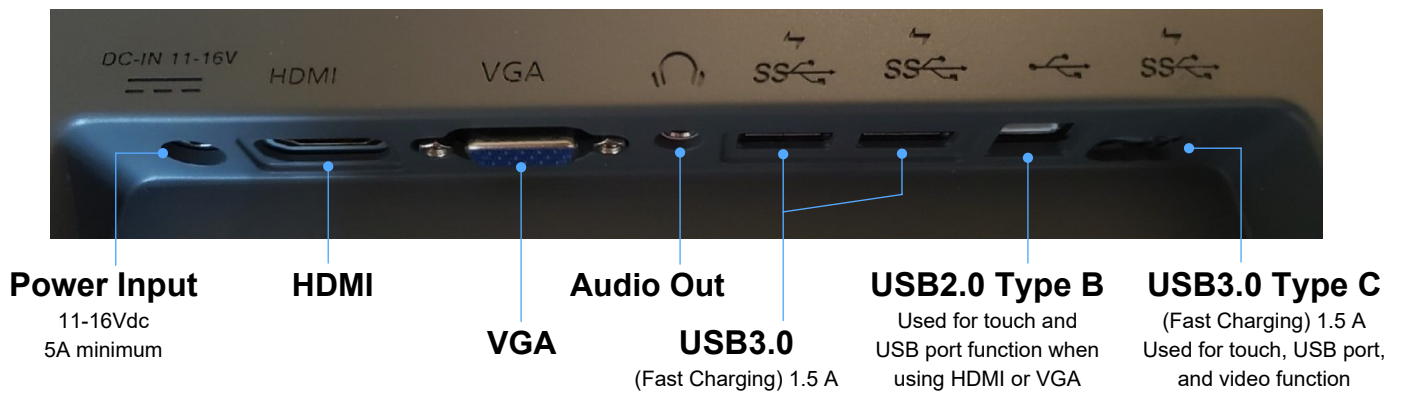
Used for touch input and to make the screen USB ports functional.



QUICK BUTTON IDENTIFICATION

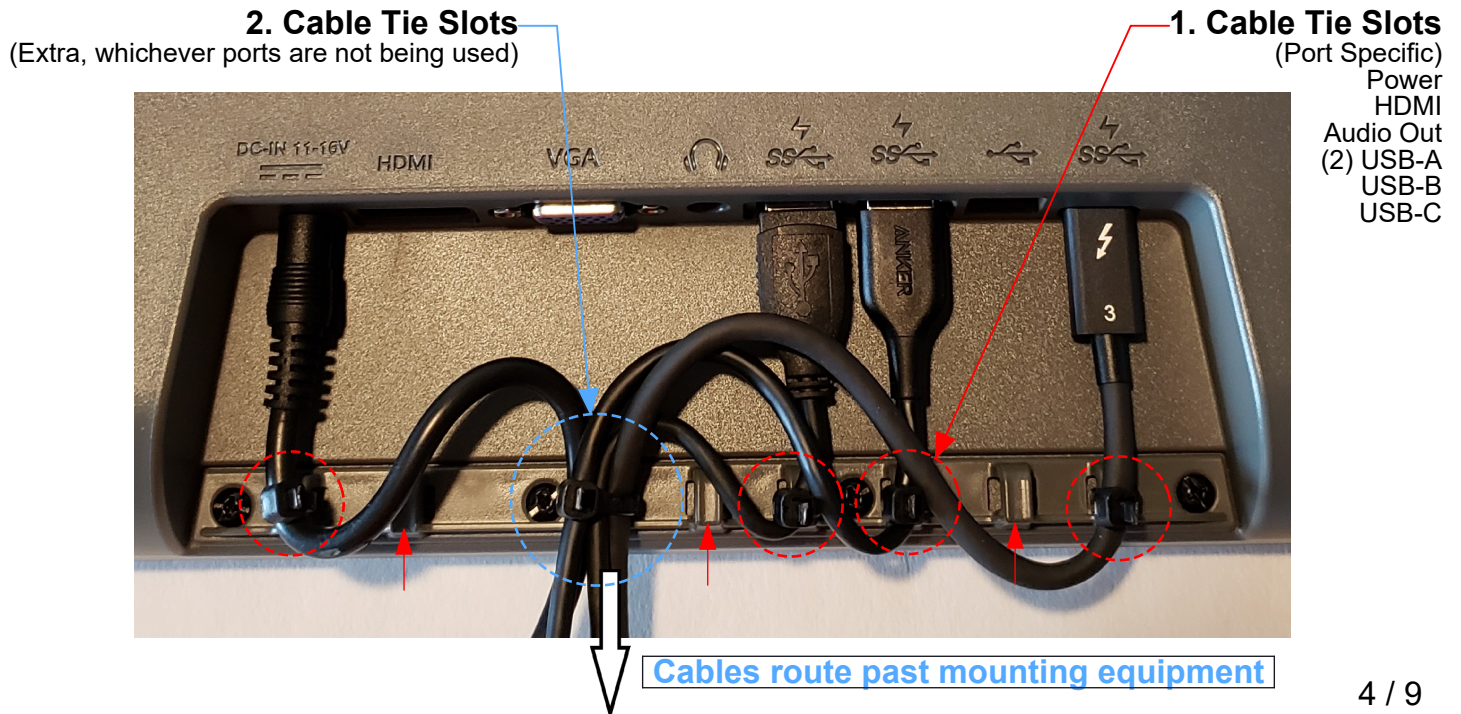


PORT IDENTIFICATION



PROPER CABLE MANAGEMENT

1. REQUIRED - Use zip ties to secure each cable to the specific strain relief feature on the screen.
2. OPTIONAL - Use zip ties to secure bundled cables for improved routing.



INSTALLING THE TOUCH SCREEN

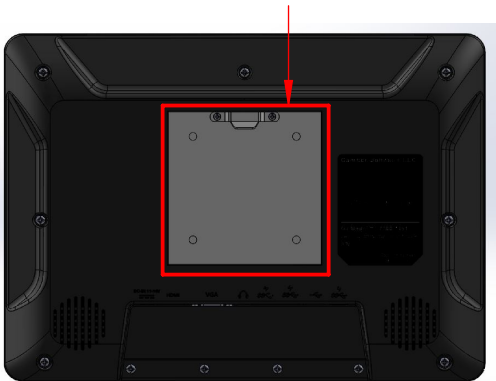
INSTALLATION - Power

1. It is recommended to have at least 5A available to power the screen. The input is 11-16Vdc.
2. It is recommended to wire the screen to ignition or a timer to prevent the battery from draining.
3. Make sure power is off before performing any install steps.
4. Bare wire power cable installation:
 - Attach the red cable to the positive power source.
 - Attach the black cable to the ground.



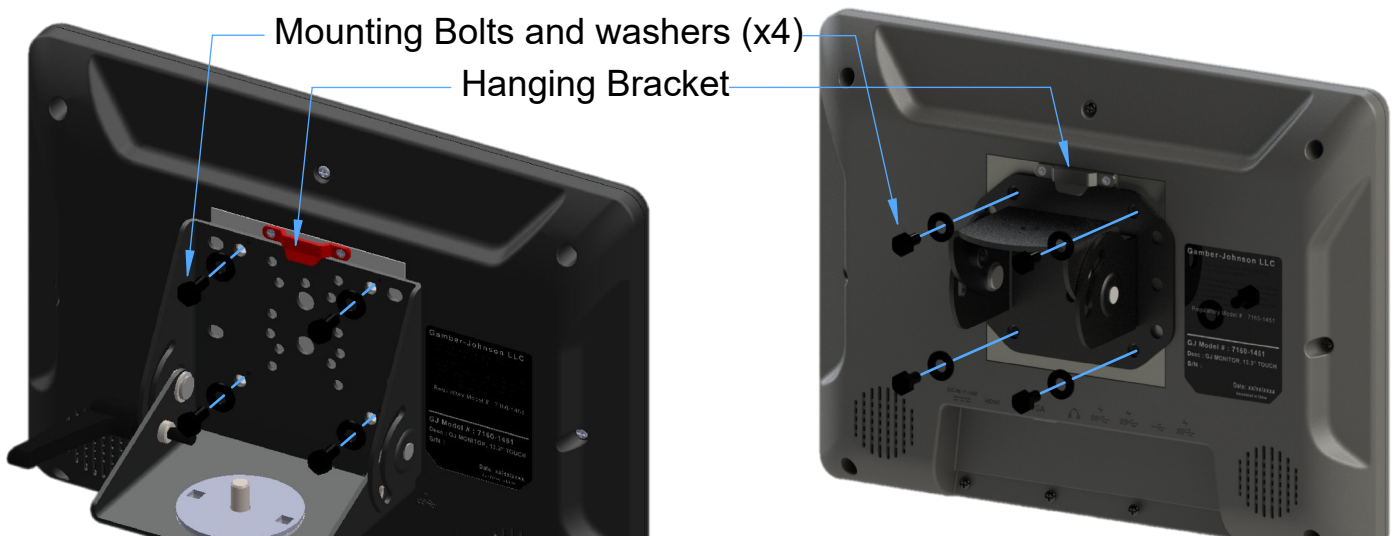
If turning on power to the system, the mounting surface (metal) may be hot to the touch.

WARNING: Hot Surface, Do Not Touch  IEC 60417-5041(DB 2002-10)



INSTALLATION - Mounting

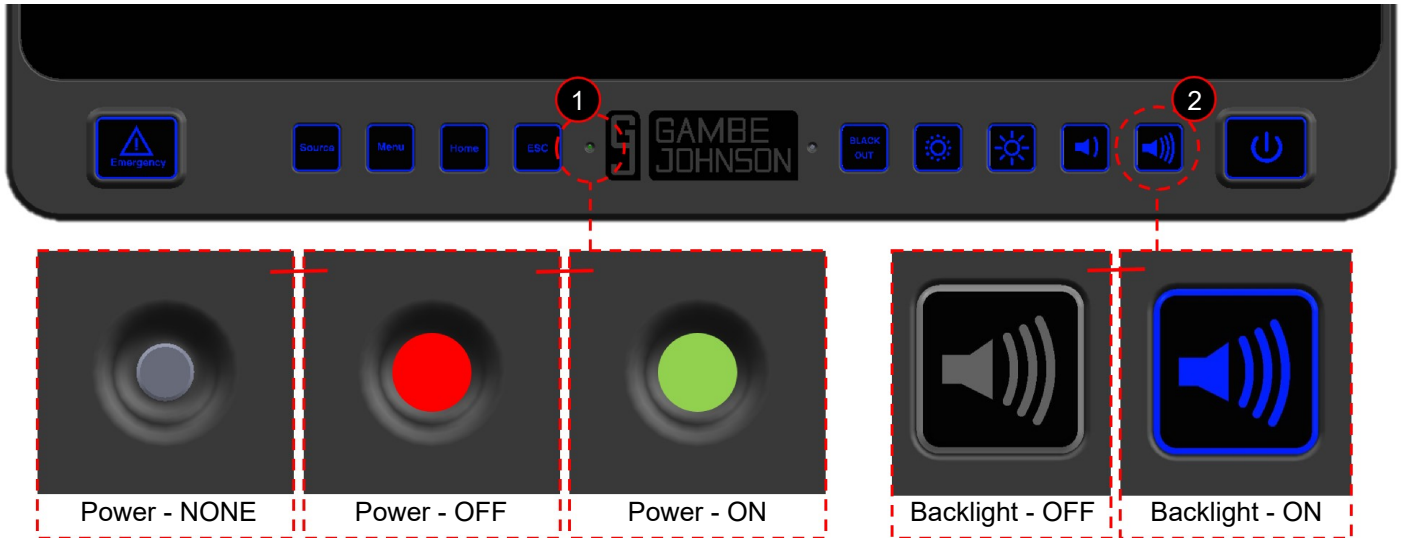
1. It is required to secure and zip-tie the ports listed on page 4, to guarantee performance.
2. If mounting to a Gamber-Johnson clevis, use the Hanging Bracket to place the screen and support the weight while attaching the Mounting Bolts included with screen.
3. If mounting to other equipment, remove and toss the Hanging Bracket and screws.



USING THE TOUCH SCREEN

OPERATION - Power

1. Upon applying power, the Power Indicator Light should be green. If there is no light, there is no power to the screen. The POWER button can be used to turn off the screen, and the Power Indicator Light will turn red. The screen will power off if no input is detected for 15 minutes.
2. When there is power, the buttons will have a blue backlight. This can be toggled off in the MENU settings.



OPERATION - Touch Screen

1. Plug and play supports Windows (XP or newer), Android, Linux, Mac OS/iOS platforms.
2. There will be a start-up image, for about two seconds, showing the Gamber-Johnson logo. If the environment is too hot or cold, the screen will stay on this start-up page until the temperature is within the usable range, -20 °C to 70 °C.



3. The brightness of the screen will automatically adapt based on ambient light using the Auto Brightness Sensor. This feature can be toggled off in the MENU settings, and the BRIGHTNESS buttons can be used to quickly adjust the brightness.
4. The Speakers on the back will function based on the input devices settings. Please reference those settings before using the VOLUME buttons to adjust the screen speaker volume.
5. The screen is a 5-point capacitive input. It will be highly responsive to user input and supports multi-finger gestures. It will not work with gloves.
6. The front of the screen is water resistant and can be cleaned. Do not use abrasive materials.

USING THE TOUCH SCREEN

OPERATION - Source and Menu

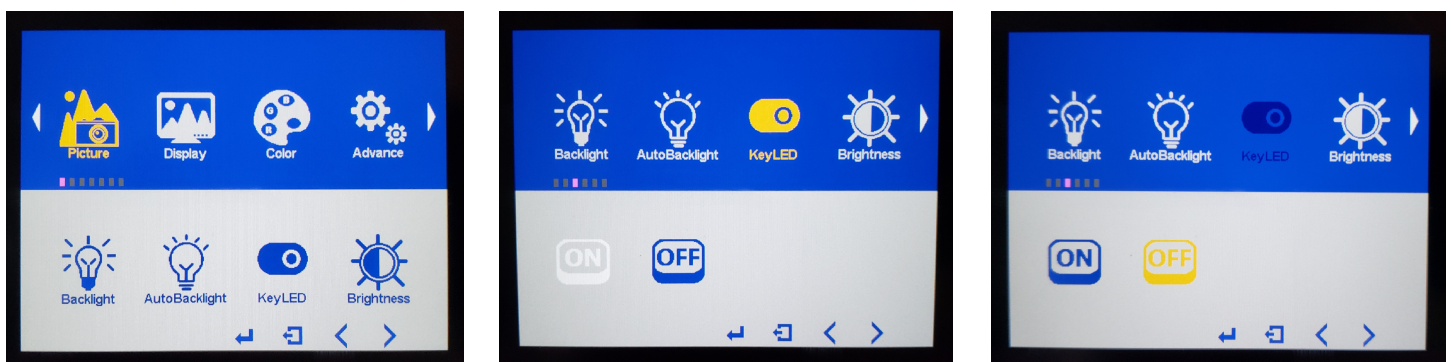
1. Within the source and menu options, the VOLUME UP and DOWN buttons are used to move left and right. The MENU button is used to "Select" and the SOURCE button to go "Back". These option panes are NOT touch screen; the VOLUME keys must be used to navigate.



2. The SOURCE button is used to toggle between the video input options. Press SOURCE and select AutoSelect, HDMI, VGA, or USB-C once the correct option is highlighted in yellow.



3. The MENU button is used to adjust the settings of the screen. Press MENU and select the options highlighted in yellow. The top blue portion is the current level of settings, and the lower white portion is the next level based on what is highlighted above. The example below shows how to turn the button backlight off.



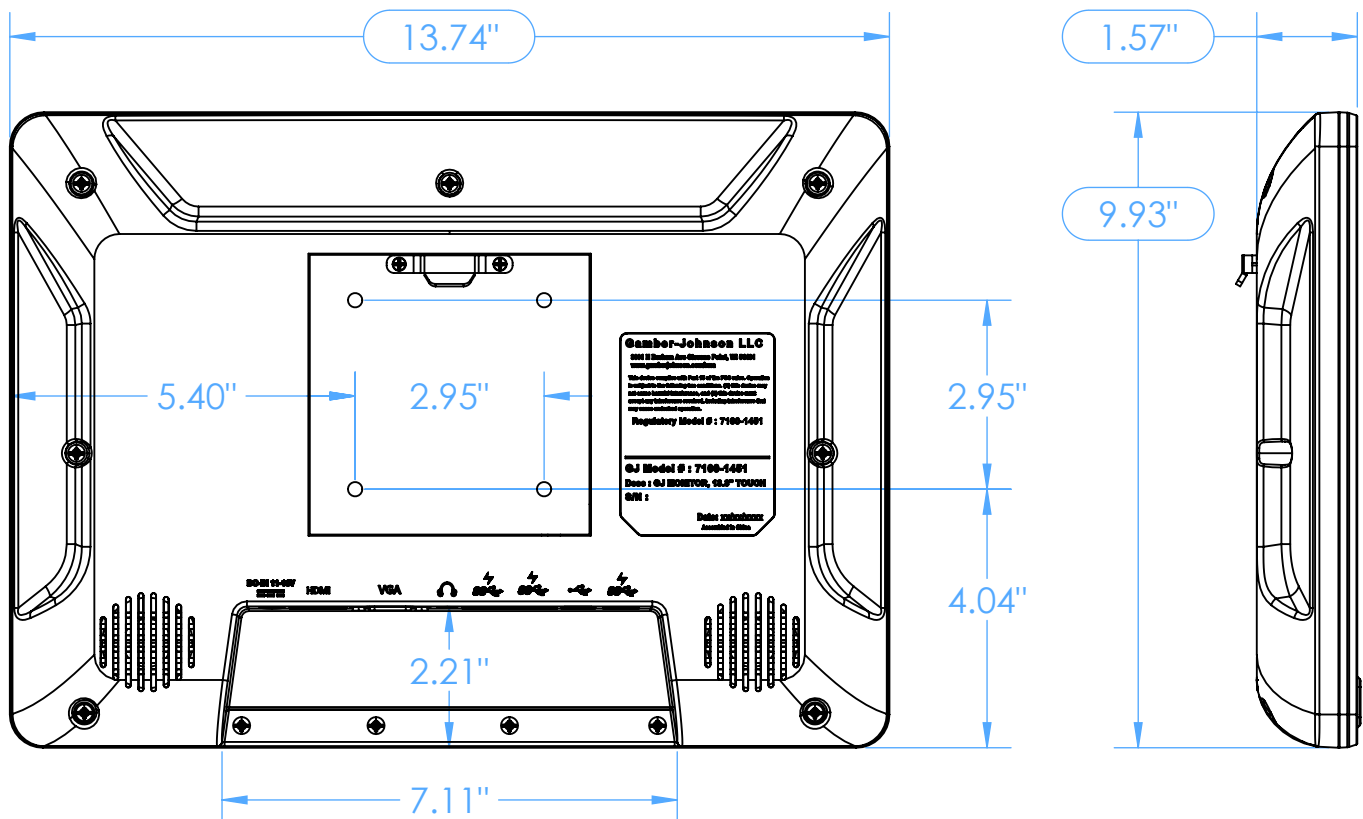
OPERATION - Quick Buttons

1. There are a range of Quick Buttons designed to make adjustments without using the MENU.
Emergency: Programmable, does not function if not programmed
Home: Press this button to return to the home screen of the connected device.
Escape: Press this button to escape the current function of a program or application.
Black Out: Press this button to make the screen black. Press again to return to normal function. Audio will still function when the screen is in Black Out mode. The button backlight will remain on.
Brightness (-): Press this button to lower the brightness of the screen. The low is 50 nits.
Brightness (+): Press this button to raise the brightness of the screen. The high is 1000 nits.
Volume (-): Press this button to lower the volume of the screen speakers.
Volume (+): Press this button to raise the volume of the screen speakers.

TOUCH SCREEN DETAILS

SPECIFICATIONS

Power Input Range	11-16Vdc
Voltage Rating	12Vdc
Current Rating	5A
Dimensions	13.74" (349.0mm) W x 9.93" (252.2mm) H x 1.57" (39.9mm) D
Weight	6.75 lbs (3.06kg)
Operating Temperature	-20°C to 70°C (-4°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Resolution	1920 x 1080
Aspect Ratio	16:9
Brightness	50 to 1000 nits
Auto Brightness	Yes, can be turned off
Touch Rating	5-point capacitive
Screen Surface	Anti-glare, Anti-reflective, 85° viewing
Speakers	5W each (x2)
Mounting	VESA 75mm, 1/4-20 thread
Compatibility	Windows (XP or newer), Android, Linux, Mac OS/iOS
Warranty	1 Year



REGULATORY CERTIFICATION INFORMATION

Regulatory Model #: **7160-1451**

GJ Model #s & Description:

7160-1451-00 13.3" TOUCH SCREEN

Certifications:

- EN 55032: 2015 / AC: 2016, Class B
- EN 55035: 2017
- EN 62368-1

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



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