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USER GUIDE



Button Gizmo

P/N 991029

Revision 1.0

Welcome to the world of Angry Audio, home of the audio Gadgets and Gizmos.

The future we were all promised has, at least as of this writing, failed to manifest itself. There are no flying cars. Jetpacks never took off (see what we did there?). And tragically, we have no robotic housekeepers in mid-century maid outfits picking up after us and cracking wise in a Brooklyn accent.

The audio world, on the other hand, has advanced quickly, as one look at a modern broadcast studio will reveal. Technology has opened up creative possibilities that would have been impossible just a few years ago. What hasn't changed is the importance of getting the basics right and sweating the details. A good studio is built by including components that make it a convenient and enjoyable place to create the content that dazzles your listeners, drives traffic to your advertisers, and lets you hang onto your ski boat for another summer.

Accordingly, every audio Gadget and Gizmo – including this Button Gizmo – is designed to solve common yet critical problems, and is meticulously engineered with performance and longevity in mind to deliver pristine audio and reliable performance for many years.

Our promise and guarantee.

In a recent survey, ten out of three people loved their Button Gizmo and we think you will too. That's why we give you 30 days to bond with your Gizmo. If you find you have irreconcilable differences, we'll buy it back.

Plus, every Gadget and Gizmo is warrantied to be free from defects in parts and workmanship for two full years after you purchase it. If it fails within this time period, Angry Audio, at its discretion, will repair or replace it so long as you let us know of the failure within the warranty period and can provide proof of purchase in the form of a dated sales receipt. You can call us at +1 615-763-3033, or reach us online at www.angryaudio.com/contact.

Making a good first impression.

When you unbox your Button Gizmo, we hope it makes a good first impression and you take a moment to appreciate the lengths we've gone to in order to create a "built for broadcast" product. All of our products are over-engineered to provide long-term reliability and guaranteed RFI immunity. Some of this is apparent – such as the durable powder-coated steel enclosure – but much of this goodness is invisible, like the premium components within. Even if you can't see it, you'll hear it!

A word or two about safety.

The Button Gizmo is a relatively low-risk product to make, install, and use in terms of liability. There aren't many places things can go horribly awry safety-wise.

Then again, we thought the same thing when we introduced the TubToaster, an appliance that should have saved buyers lots of time in the morning by allowing them to simultaneously shower and make a light breakfast. Instead – how can we put this delicately? – it quickly eroded any future customer base and denied a lot of people the simple pleasure of perfectly toasted rye bread.

Along with a promise to mothball our gas-powered upright vacuum (it seemed the logical progression of the cordless concept to us) we agreed to talk about safety, so here goes.

The Button Gizmo is intended to be installed and used by qualified personnel only. To avoid electric shock, do not open the unit or attempt to perform any servicing unless you are qualified to do so.



While the Button Gizmo does not have its own power supply, it does receive DC voltage from the console to which it is wired, and hazardous voltages may be present on external components.

Do not expose your Gizmo or its power supply to rain or moisture. Any electronic device can fail without warning; do not use this product in applications where a life threatening condition could result due to failure.

So, what exactly did I just buy?

Fair question. The Button Gizmo is a guest microphone control panel with four LED illuminated pushbuttons that elegantly mounts into your countertop. When you push one of the buttons, something happens. Exactly what is entirely up to you.

For example?

By default, the buttons are labeled ON, OFF, MUTE, and TALK. Thanks to the magic of logic control, you can make them perform any task that can be executed with GPIO. The button caps are removable so you can replace the stock labels with your own.

Can I use it with any console?

The Button Gizmo is meant to interface with any console with GPIO logic. Various manufacturers use different pin-outs and logic signals, so please consult your console manual for details.

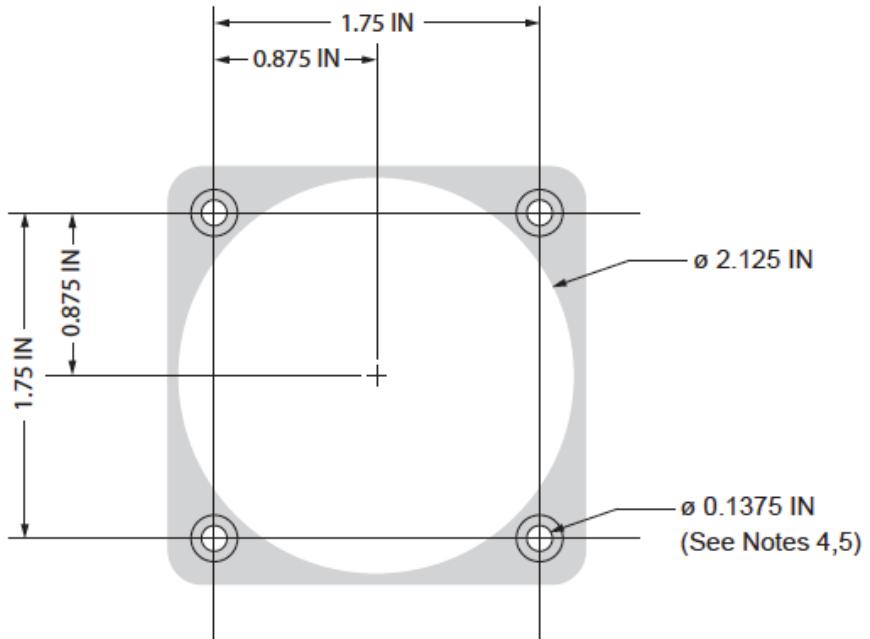
How easy is it to install?

The Button Gizmo is designed to be installed directly into your studio furniture in a location that is practical and convenient.* The only tools required are a power drill and a 2 1/8 inch hole saw to create the grommet hole; a router is not required. The Gizmo is then secured with four screws. Spacing and dimensions are shown along with a handy to-scale template suitable for printing on Page 4.

Electrically-speaking, we include a DB15M to RJ45F adapter that is pre-wired to work as a Guest Mic Control Panel for Axia consoles. Plug the adapter into a GPIO port on the console or node using a standard CAT5 cable, and you're in business. We also throw in an RJ45F to screw terminal adapter to make interfacing with other consoles as easy as possible.

* - If you want to install the Button Gizmo in a location that is impractical, inconvenient, or both, you do you.

One handy-dandy printable template.

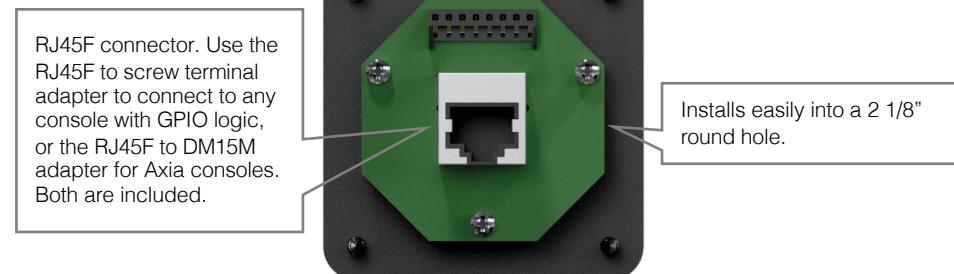


1. This template can be used as a guide for locating holes. Your printer must be set to print this page at 100% actual size. If your printer shrinks images to fit the page, the dimensions will be wrong. Measure the printed page with a ruler to make sure the printed dimensions match the actual size.
2. Once you've decided where you want your Button Gizmo, tape the template to your desktop. Remember to leave at least 12 inches between the edge of the desk facing the user and the Gizmo. Use an awl or center punch at all five hole centers and remove the template.
3. Drill the 2.125 inch diameter center hole. This hole must go completely through the table.
4. For hardwood, plywood or MDF desktops, drill a 1/16 inch pilot hole for each corner hole. Use the four thoughtfully included flathead wood screws to secure the Gizmo. Do not over-tighten.
5. For desktops constructed of other materials including stone or glass or those of a hollow (honeycomb) construction, the corner holes must be 0.1375 inch diameter through holes to allow a flathead bolt (not thoughtfully provided) to pass through the desktop and secured with a nut (also not provided) from beneath.

Buttons on the front.



Plugs on the back.



Connections.

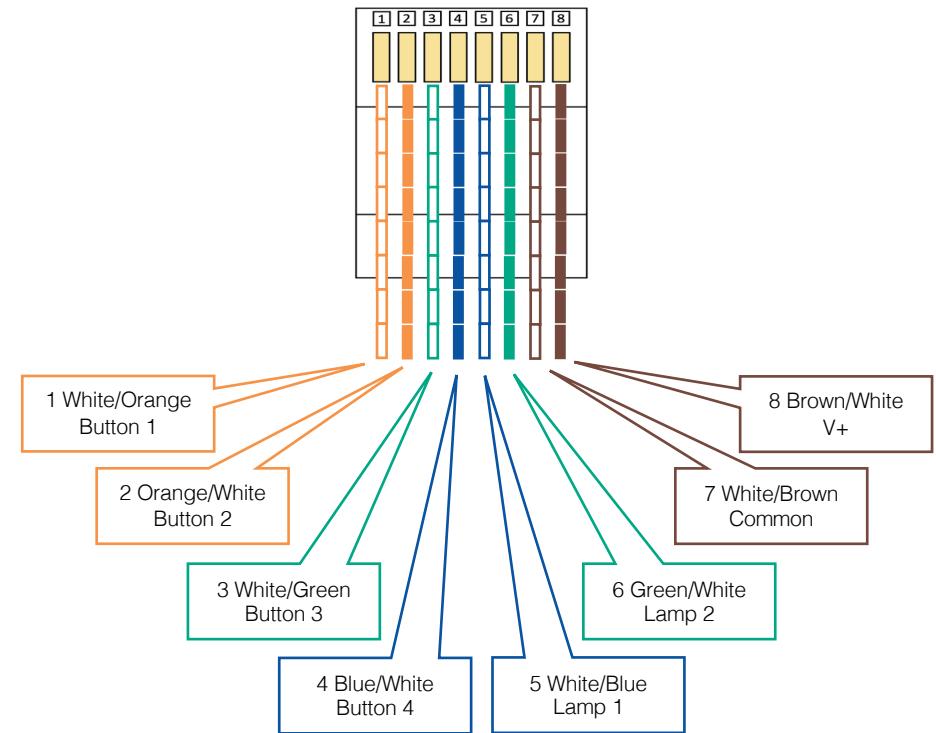
The Button Gizmo is designed to behave as a plug-and-play Guest Mic Control Panel for Axia consoles. You will need one available GPIO port for each Button Gizmo. Simply plug the included RJ45F to DB15M adapter into the back of the Button Gizmo, then connect it to the GPIO port with a standard CAT5 Ethernet cable. For the curious, a breakout of the wiring is provided on Page 7.

Other manufacturers use different pin-outs and logic signals, so please consult your console manual for details and refer to the RJ45 pinout on Page 6. We've thoughtfully included an RJ45F to screw terminal breakout adapter to make things easier.

RJ45 Pinout.

Pin 1	Button 1
Pin 2	Button 2
Pin 3	Button 3
Pin 4	Button 4
Pin 5	Lamp 1
Pin 6	Lamp 2
Pin 7	Common
Pin 8	V+

Closure to common while Button 1 is pressed
Closure to common while Button 2 is pressed
Closure to common while Button 3 is pressed
Closure to common while Button 4 is pressed
Illuminates Button 1 LED when connected to common
Illuminates Button 2 LED when connected to common
Connect to logic common on your GPIO port
Connect to +5VDC or +12VDC on your GPIO port



Wiring for Axia GPIO Port to Button Gizmo Logic.

Pin 1	On Switch	Pin 1	On Tally Lamp
Pin 2	Off Switch	Pin 2	Off Tally Lamp
Pin 3	Talk Switch	Pin 3	Talk Tally Lamp
Pin 4	Mute Switch	Pin 4	Mute Tally Lamp
Pin 5	On Tally	Pin 5	Not Connected
Pin 6	Off Tally	Pin 6	Not Connected
Pin 7	Logic Common	Pin 7	Source Common
Pin 8	+5VDC	Pin 8	Logic Common
		Pin 9	Logic +5VDC Supply
		Pin 10	Source Supply
		Pin 11	On Command
		Pin 12	Off Command
		Pin 13	Talk (to CR) Command
		Pin 14	Mute Command
		Pin 15	Not Connected

Riveting data about your Gizmo.

Part Numbers

Button Gizmo Part No. 991029

Connections

RJ4F

Power and Environmental

Power Consumption at 5VDC 250mW

Power Consumption at 12VDC 500mW

Operating Temperature 0° to 40° C (32° to 104° F)

Storage Temperature -20° to 45° C (-4° to 113° F)

Relative Humidity 0% to 90% non-condensing

Mounting Hole Diameter 2 1/8"

Product Dimensions

Width x depth x height 2.25 x 1.00 x 3.25 in., 5.72 x 2.54 x 8.26 cm.

Shipping Weight & Dimensions

Width x depth x height 4.00 x 4.00 x 3.00 in., 10.16 x 10.16 x 7.62 cm.

Shipping Weight 1.0 pound, 0.46 kilograms

Compliance in the U.S.

In the U.S., this Gizmo complies with the limits for a Class A computer device as specified by FCC Rules, Part 15, Subpart J, which are designed to provide reasonable protection against such interference when this type of equipment is operated in a commercial environment.

...and in Canada.

In Canada, this Gizmo does not exceed the Class A limits for radio noise emissions set out in the Radio Interference Regulations of the Canadian Department of Communications.

...and in Europe.

This Gizmo complies with the requirements of the EEC Council Directives 93/68/EEC (CE Marking), 73/23/EEC (safety – low voltage directive), and 89/336/EEC (electromagnetic compatibility). Conformity is declared to standards EN50081-1 and EN50082-1

Top secret information – shhhh.

