Input Selection Programming Table
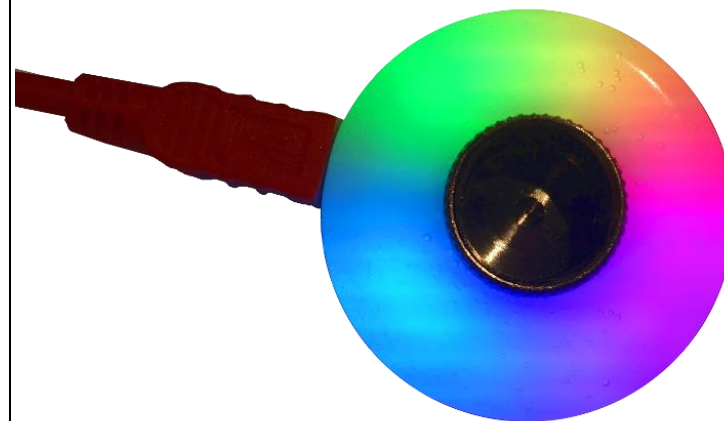
Use the following input combinations to obtain the desired effects.

In1	In2	In3	In4	In5	Mode
Open	Open	Open	Open	Open	Off
GND	Open	Open	Open	Open	Steady Red
Open	GND	Open	Open	Open	Steady Green
GND	GND	Open	Open	Open	Steady Purple
Open	Open	GND	Open	Open	Steady Blue
GND	Open	GND	Open	Open	Steady Pink
Open	GND	GND	Open	Open	Steady Aquamarine
GND	GND	GND	Open	Open	Rainbow
Open	Open	Open	GND	Open	Steady Yellow
GND	Open	Open	GND	Open	Slide Red
Open	GND	Open	GND	Open	Slide Green
GND	GND	Open	GND	Open	Slide Purple
Open	Open	GND	GND	Open	Slide Blue
GND	Open	GND	GND	Open	Slide Pink
Open	GND	GND	GND	Open	Slide Aquamarine
GND	GND	GND	GND	Open	Slide White
Open	Open	Open	Open	GND	Steady White
GND	Open	Open	Open	GND	Rotate Red
Open	GND	Open	Open	GND	Rotate Green
GND	GND	Open	Open	GND	Rotate Purple
Open	Open	GND	Open	GND	Rotate Blue
GND	Open	GND	Open	GND	Rotate Pink
Open	GND	GND	Open	GND	Rotate Aquamarine
GND	GND	GND	Open	GND	Rotate White
Open	Open	Open	GND	GND	Rotate Yellow
GND	Open	Open	GND	GND	Strobe Red
Open	GND	Open	GND	GND	Strobe Green
GND	GND	Open	GND	GND	Strobe Purple
Open	Open	GND	GND	GND	Strobe Blue
GND	Open	GND	GND	GND	Strobe White
Open	GND	GND	GND	GND	USA
GND	GND	GND	GND	GND	Demo Mode Cycle All

Jelly-Tally

By NotaBotYet

Instruction Manual

Universal Microphone Tally System
Part #J17-T10-0

NotaBotYet

Find more information and installation examples at www.notabotyet.com

Microphone tally systems can be used in radio broadcast studios to indicate to the talent the fact that their microphone is live and potentially on the air. However until now, they could not do much more than this. The Jelly-Tally by NotaBotYet is a microphone tally system designed to be installed on any standard microphone boom. In addition, its thirty-one pre-programmed unique indications allow the end user to provide a host of different indications to the talent.

Pre-programmed indications range from standard steady displays of 7 different colors as well as many of those colors also being available in "theater-chasers," "colors slides," "strobe effects," and "rainbow" effects. The end-user can decide what effect to use. A steady red can still mean the mic is live on the air, but yellow could mean it is being recorded; green could mean the studio is not live; sliding purple could mean that a show segment is coming to an end; strobing white could mean the phone is ringing; strobing red could mean the hotline is ringing; and the rainbow effect could mean nothing at all, and is on just for the fun of it!

The System:
The Jelly-Tally system ships with two main components as well as with cables and a power supply. The Jelly-Tally indicator light is able to screw directly onto the threads of any 5/8" 27 threads per inch male mount commonly found on standard microphone booms and stands. On the bottom of the indicator is a 5/8-27 mount, onto which the microphone mount can attach, sandwiching the indicator between the mic and the boom.

The other main component of the system is the Control Driver. This device contains a microcontroller interface, USB power supply input, USB connector output, and an RJ-45 for control input. A simple USB cable (included) is used to connect the Control Driver to the Indicator Light. Another USB cable connects the Control Driver to the +5V power supply (included).
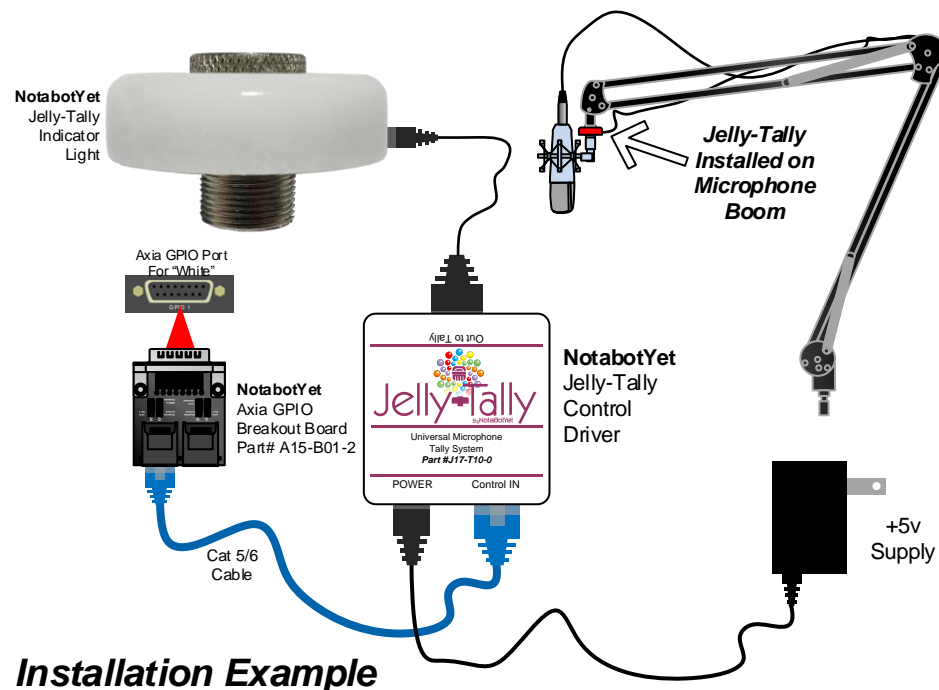
Control:
The input RJ-45 hosts five GPIO type logic inputs with built in pull-ups. The pinout of the RJ-45 is designed as such to work with NotaBotYet Axia Breakout Boards (Part# A15-B01-2), or the logic port on Wheatnet-IP blades. However a simple closure to ground using any standard logic device, relay, or switch is all that is needed to activate each input, allowing the device to be used with nearly any manufacturer's gear.

The five inputs are designed so as any single input provides a steady color, but different combinations of inputs can be used to activate any of the animated patterns or colors pre-programmed into the system.

RJ45 Input Pinout: (Ground to Activate)	
Pin Number / EIA/TIA 568B Wire Color	
1 GND	Org/W
2 In 1	Org
3 In 2	Grn/W
4 In 3	Blu
5 In 4	Blu/W
6 In 5	Grn
7 No Connection	Brn/W
8 No Connection	Brn

Included in the box:
(1) Jelly-Tally Control Driver
(1) Jelly tally Indicator Light
(1) +5V Power Supply w/USB output
(1) 3' Cable USB-A to USB-B (power)
(1) 15' Cable USB-A to Mini-B (to light)

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Installation Example

Installation:
- Remove the existing microphone mount from the microphone boom or stand
- Take the Jelly-Tally Indicator Light and screw it onto the microphone boom's threaded connector taking care to position the power/control connector in a position where it is out of the way and not likely to get pinched during normal movement of the microphone or boom.
- Reinstall the existing microphone mount to threaded connector located on the bottom of the Jelly-Tally Indicator Light.
- Connect the USB-A to USB-Mini-B cable to the Jelly-Tally Indicator Light and route the cable along the microphone boom following the path of the existing microphone cable. Route the cable such that the USB-A connector is near the planned location of the Jelly-Tally Control Driver.
- Mount the Jelly-Tally Control Driver in a location that is out of the way but accessible for service and connections and near a power source.
- Plus the USB-A end of the cable coming form the Jelly-Tally Indicator Light to the matching output jack on the Control Driver.
- Plug in the +5V supply and using the USB-A to USB-B cable, connect from the supply to the Jelly-Tally Control Driver. A red power indicator LED inside the Control Driver will glow if power is applied properly.
- Using an RJ45 cable, plug in the control input into the Control Driver. The unit may be tested by shorting the appropriate control inputs to ground. Caution must be taken not to apply voltage to these inputs, especially any voltage above +5v as it may damage the inputs of the microcontroller IC.
- Program your GPIO outputs according to your manufacturer's instructions to drive the control inputs and light one of Jelly-Tally Indicator Light's pre-programmed patterns!