



NEW PRODUCT HIGHLIGHT

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# Lighted Audio Buzzer

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# Introduction

PUI audio is proud to announce the launch of its lighted audio indicators. A lighted buzzer is a combination of two primary components: a buzzer (or audible sound generator) and a light (usually an LED or another type of visual indicator). These components are integrated into a single device that serves both auditory and visual signaling purposes.

Lighted buzzers may be used in emergency systems to visually signal urgent situations. This might occur in settings such as factories, schools, or hospitals, alerting people to hazards or important events, or indicate status change during a process.

Lighted buzzers can be powered by low-voltage DC sources, typically ranging from 3V to 15V, depending on the components used. Although they consume more current than LEDs, PUI audio models draw as low as 12mA to 30mA.



## Key Applications

- **Industrial Applications:** In machine monitoring and production lines to signal a malfunction or an operational issue with machinery, helping workers identify problems quickly.
- **Medical Devices:** to signal emergencies, such as patient alerts or requests for assistance, particularly in patient or surgery rooms.
- **Public Warning Systems.** In public spaces, such as airports or subway stations, to alert people to evacuate or to indicate danger.
- **Safety Applications:** In factories or warehouses, as part of emergency notification systems to signal an alarm, hazard, or emergency event. The flashing light helps workers notice the alert in loud environments.

## Key Features

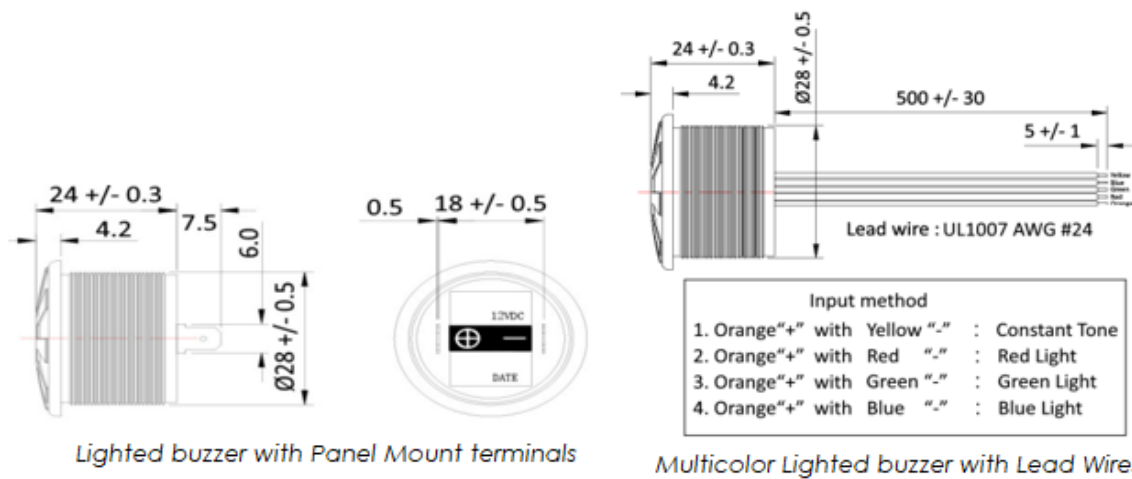
- All PUI's lighted audio indicators are waterproof with an IP68 rating.
- They maintain a constant tone.
- All models offer low current consumption, with a high audio output level.
- All PUI models ensure reliability using high-performance piezoelectric buzzers.
- PUI provides a range of models with different terminals to suit various applications, and to ease installation.
- PUI offers a variety of LED color options, including multicolor LED solutions, to provide flexibility across different applications.

PUI Part Number	Size (mm)	Max Current* (mA)	Resonant Frequency (Hz)	Min. SPL at 10 cm (dB)	LED Color	Terminals
<b>LAI-1441-TB-WP</b>	13.8 x 7.5	12	4,100	83	Blue	Thru-Hole
<b>LAI-2540-PG-WP</b>	25 x 18	20	4,000	94	Green	Panel Mount
<b>LAI-3230-PM-WP-LW500</b>	32 x 24	30	3,000	104	Red + Green + Blue	Lead Wires
<b>LAI-3330-PR-WP</b>	32 x 24	25	3,000	104	Red	Panel Mount
<b>LAI-3735-PY-WP</b>	36.5 x 19.5	18	3,500	104	Yellow	Panel Mount

\*At 12V (Rated Voltage)

## Electrical Connections

Controlling these piezoelectric-based audio devices is straightforward—simply connect it to a DC power supply; and for **LAI-3230-PM-WP-LW500**, select the desired color output by grounding the corresponding lead wire.



## Key Benefits

- **Multi-Sensory Feedback:** Combining both light and sound helps ensure that people notice the signal, even in noisy or busy environments.
- **Efficiency and Clarity:** Lighted buzzers help provide clear and immediate feedback, which is important for managing time-sensitive or competitive situations.
- **Accessibility:** In environments where hearing impairments might exist, the visual signal of a lighted buzzer can serve as a crucial communication tool.
- **Attention-Grabbing:** The flashing light ensures that the signal or alert stands out, catching the eye and drawing attention to urgent or important matters.

In conclusion, lighted buzzers are practical solutions that can be used across many industries and environments to improve communication, facilitate decision-making, and signal important events or emergencies.

## Resources

We have previously published white papers on buzzers. You can access them by visiting our website's Resource Library and applying the indicator filter.

- <https://puiaudio.com/products/category/indicators>
- [Buzzers-Expansion.pdf](#)
- [New-Audio-Buzzers.pdf](#)