

# LOCUTION HARDWARE PRODUCT CATALOG

*Setting the Standard  
for Automated Fire Station Alerting*

24 February 2025

## OVERVIEW

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Locution hardware works in conjunction with Locution PrimeAlert® software to help save lives and property and improve the health and safety of first responders. Each and every architecture and product design decision is made to optimize for these goals.

Locution has avoided proprietary designs wherever possible to be able to offer the latest technologies as well as to minimize the costs for customers, both at initial purchases and in the future. Fire station alerting systems must provide mission critical tasks with speed, precision, and reliability around the clock. They must be configurable to handle unique requirements that can differ widely within the same PSAP. They should serve those who serve with the latest health and safety advances... and do so for a long time.

The suite of the latest audio and visual devices offered by Locution continues to be updated as new innovations and technologies emerge. We complement those products with our own hardware when necessary, to provide a system that is worthy to serve first responders. Coupled with our flexible, robust, and powerful software, this is how Locution has set the standard for automated fire station alerting for more than 30 years.

Please note that all features and capabilities are subject to change without notice. For the latest information, please contact Locution on the web at [www.locution.com](http://www.locution.com), email at [sales@locution.com](mailto:sales@locution.com), or simply call us at (303) 301-7300.

## **Audio Devices**

Audio devices should provide the clearest and most understandable dispatches to help reduce errors and minimize response times. They should also work with the software to provide customized tones that can quickly inform a first responder that the call is for their unit, the type of incident, and more.

Audio products should also have the latest technologies to help minimize the health risks around noise. The long-term health risks from noise exposure are significant and well documented by numerous medical studies.

Audio products also need to integrate into the automated fire station alerting system's zoned alerting capabilities. Like noise, the health risks from sleep deprivation are quite significant and proven by many medical studies. Ideally, crews should only be awakened when necessary and not for every call, and the audio products play a role to provide zoned alerting.

Recognizing the unique needs of each customer and within each station, Locution offers speakers that cover large areas as well as small, directional speakers, which can provide much clearer audio at lower volume that is safer for first responders. The smaller speakers can also help alert only the units that need to be awoken for a dispatch, rather than awaken the entire station.

Locution audio products feature "absolute quieting" technology to help reduce clicks, pops, and hisses from speakers. Locution amplifiers incorporate digital signal processing, which also provides remote access for diagnosis and maintenance.

As stated above, we have a non-proprietary architecture that can support using a customer's existing audio alerting products as well as incorporate the latest products. Customers have the choice of using compatible existing products, purchasing from Locution, or a both. The audio alerting products listed below are current at the time of this publication. For more information about our latest offerings and quotes, please reach out to us ([www.locution.com](http://www.locution.com)).

**Ceiling speakers** can provide audio coverage for a room. They are available in normal mount or blind mount. Ceiling tile replacement speakers are available and can include integrated visual alerting as well.

**Focused speakers** can provide directional audio coverage for maximum understandability at lower volumes to help reduce the negative health effects of noise exposure for first responders. These can be used in a station nearfield bay.

Specifications

Indoor use  
Sensitivity: 95 dB SPL, 1W/1M  
Power Rating: 20W RMS, EIA 426A Standard  
Max Power Rating: 15W @ 8 Ohms  
Freq Response: 65 Hz – 17 kHz, EIA 426A Standard  
Nominal Coverage Angle: 100° Included Angle,  
-6 dB/2 kHz half space  
Dimensions: 12 <sup>7/8</sup>" Diameter x 2.5" depth  
Weight: 4.2 lbs  
Color: White powder coated finish



**Ceiling Loudspeaker**  
Location TSPK-CL  
Use: hallways, stairways,  
dorm rooms

Specifications

Indoor use  
Sensitivity: 92 dB SPL, 1W/1M  
Power Rating: 20W RMS, EIA 426A Standard  
Freq Response: 65 Hz – 17 kHz, EIA 426A Standard  
Nominal Coverage Angle: 90° Included Angle,  
-6 dB/2 kHz half space  
Dimensions: 12 <sup>7/8</sup>" Diameter x 4 <sup>1/16</sup>" depth



**Ceiling Loudspeaker  
Blindmount**  
Location TSPK-CL-BM  
Use: hallways, stairways,  
dorm rooms

Specifications

Indoor use

Sensitivity: 92 dB SPL, 1W/1M

Power Rating: 12W RMS, EIA 426A Standard

Max Power Rating: 15W @ 8 Ohms

Freq Response: 65 Hz – 17 kHz, EIA 426A Standard

Nominal Coverage Angle: 100° Included Angle,  
-6 dB/2 kHz half space

Dimensions: 23 13/16" (W) x 23 13/16" (L) x 3 1/2" (D)

Weight: 6.15 lbs

Color: White powder coat finish



**Tile Replacement  
Speaker**

Location TSPK-TL

Specifications

Indoor use

Sensitivity: 92 dB SPL, 1W/1M

Power Rating: 12W RMS, EIA 426A Standard

Max Power Rating: 15W @ 8 Ohms

Freq Response: 65 Hz – 17 kHz, EIA 426A Standard

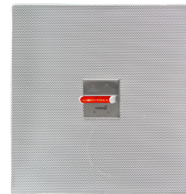
Nominal Coverage Angle: 100° Included Angle,  
-6 dB/2 kHz half space

Dimensions: 23 13/16" (W) x 23 13/16" (L) x 3 1/2" (D)

Weight: 6.35 lbs + weight of light selected

Color: White powder coat finish

Light choices include: Night Vision Illuminator (LNVI-H), Ramped Night Vision Illuminator (LNVI-EZ) and Strobe



**Tile Replacement  
Speaker with**

Location TSPK-TL-DR

Specifications

Power Rating: 40W  
Nominal Frequency: 40-7500 Hz  
Sound Level Peak: 124 dB  
Sound Level RP/1M, 1W/1M: 120 107 dB, 500-5000 Hz (+/- 5 dB)  
Dispersion: 60° x 40°  
Dimensions: 14.5" (W) x 10 1/4" (H) x 13 1/4" (D)  
Weight: 6 lbs (2.7 kg)



**Horn Speaker**  
Location TSPK-HR  
Use: Apparatus bays  
Outdoor

Specifications

Indoor or outdoor use  
Sensitivity: 88 dB, 1W/1M  
Power Rating: 16W RMS  
Freq Response: 115 Hz – 16 kHz (+/- 5 dB)  
Height: 7" (177.8mm)  
Width: 5" (127mm)  
Depth: 5 15/16" (150.3mm)  
Color: Black or White



**Wall Baffled  
Nearfield Speaker**  
Location TSPK-WB  
Use: Apparatus bays,  
Outdoor patios

Specifications

Indoor use  
Sensitivity: 92 dB SPL, 1W/1M  
Rated Power: 12W  
Freq Response: 120 Hz – 20 kHz  
Coverage Angle: 90° Included Angle, -6 dB/2 kHz half space  
Dimensions: 12 7/8" Diameter x 4 1/16" depth



**Wall Focused  
Speaker**  
Location TPSK-WF  
Use: Dorm rooms

## Visual Devices

Visual devices can help play a key role to minimize response times. They should also work with the software to provide customized alerts that can quickly inform a first responder that the call is for their unit, the type of incident, and more.

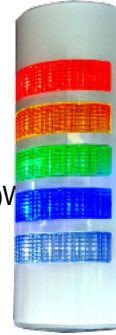
Visual alerting products should also have the latest technologies to help minimize the health risks around sleep deprivation. The long-term health risks from sleep deprivation are significant and well documented by numerous medical studies. Ramped alerting, night vision optimization, and integration into the automated fire station alerting system's zoned alerting capabilities are some of the ways that the latest visual alerting products can help reduce health risks for first responders.

Recognizing the unique needs of each customer and within each station, Locution offers a variety of choices. Locution visual products can be configured on site or remotely and have remote access for diagnosis and maintenance. As stated above, Locution has a non-proprietary architecture that can support using a customer's existing visual alerting products as well as incorporate the latest visual alerting products. Customers have the choice of using compatible existing products, purchasing new products from Locution, or a both. The visual alerting products listed below are current at the time of this publication. For more information about our latest offerings and quotes, please reach out to us ([www.locution.com](http://www.locution.com)).

**Color-coded alert lighting** can quickly convey important information to first responders. Location lighting can be programmed to indicate units being dispatched, incident type, and more. It is also able to be reconfigured and monitored remotely.

Specifications

Surface mount  
Operating Voltage :24V  
Current Draw/Element: 43 ma  
Operating Temperature Range: -25°C to +50°C (-13°F to +122°F)  
Lens and base material: Polycarbonate (94V-0)  
LED average life: 30,000 to 50,000 hr continuous operation  
Dimensions: 45 mm (1.77") D x 245.7 mm (9.67") L x 90 mm (3.54")W  
Weight: Up to 4.2 lbs  
Choice of 3, 4, or 5 colors  
Note: Color order requires factory configuration



**Surface Mount  
Multi-unit  
Indicator Light**

Location TMU-SM3,  
TMU-SM4, or  
TMU-SM5

Use: Day rooms, common  
areas, workout rooms,  
any high noise environment

Specifications

Optional ceiling mount  
Operating Voltage :24V  
Current Draw/Element: 25 ma  
Operating Temperature Range: -20°C to +50°C (-4°F to +122°F)  
Lens and base material: Polycarbonate  
LED average life: up to 100,000 hr continuous operation  
Weight: 58 oz/element  
Choice of 3, 4, or 5 colors  
Note: Color order requires factory configuration



**Stacked Multi-unit  
Indicator Light**

Location xxxxx  
Use: Day rooms, common  
areas, workout rooms,  
any high noise environment



**Strobe lights** can be mounted throughout the station. Locution strobe lights include the capability for adjustable candela intensity levels are available in indoor and outdoor models.

Specifications

Wall mount

Nominal voltage 24 VDC for horn, strobe and horn/strobe

Nominal voltage 12 VDC for horn

Unit Dimensions: 5" (12.7 cm) high x 4.5" (11.43 cm) wide x 2.5" (6.35 cm) deep

Input terminals 12 to 18 AWG

Switch selection for high or low dBA

Switch for 2400 Hz, mechanical, chime and tones

Reverberant dBA at 10ft.: 70-82 dBA

Anechoic Room dBA at 10ft.: 100 dBA

Strobe candela: 15 (ANSI/UL 1971) / 75 (ANSI/UL 1638)

Color: white housing



**Wall-mounted  
Strobe Light**

Locution xxxx  
Use: Any indoor high  
Noise environment

Specifications

Ceiling mount

Unit Dimensions: 6" (15.24 cm) x 2.6" (6.604 cm)

Input terminals 12 to 18 AWG

Horn/strobe switch selection for high or low dBA

Horn/strobe switch selection for 2400Hz or mechanical tone

Horn/strobe switch selection for continuous or temporal 3

Field selectable candela options of 15, 30, 75, 95, 115 & 150

Reverberant dBA at 10ft.: 81-86 dBA

Anechoic Room dBA at 10ft.: 90 dBA

Color: white housing



**Ceiling-mounted  
Strobe Light**

Locution xxxxx  
Locution xxxx  
Use: Any indoor high  
Noise environment

**Night vision lighting** can be mounted throughout the station. Locution offers wall mounted and ceiling mounted light vision illuminators that can offer ramped or switched monochromatic red light. Lights are network addressable.

#### Specifications

Ceiling mount (to standard 2' x 2' drop ceiling tile)  
Pure Monochromatic Red Light preserves night vision  
High Efficiency 27 Lumen Output at .8W  
Ramp up and digital dimming compatibility  
Life expectancy 100,000 hours  
Unit Dimensions: 5" (12.7 cm) diameter

Three available versions:

- Locution LNVR: Lights are switched
- Locution LNVR-DL: Ramped lights used in bunks on zoning systems \*must be programmed\*
- Locution NVR-NF: LNVR lights sold without fixtures



#### **Ceiling-mounted Night Vision Light**

Locution LNVR (switched),  
LNVR-DL (programmed),  
NVR-NF (w/o fixture)  
Use: Bunk rooms,  
hallways

#### Specifications

Used for low level dorm and egress light illumination  
Pure Monochromatic Red preserves night vision  
High Efficiency 27 Lumen Output at .8W  
Ramp up and digital dimming compatibility  
Life expectancy 50,000 hours  
Attractive Stainless Steel Plate and Designer Cover  
Mounts to standard 2 Gang Switch Plate Box or Ring  
in conventional orientation. 4.57"(L) X 4.57"(W) X .875" (H)  
Height dimension includes LED cover housing  
Ideal in restricted depth installation situations.  
Requires no back depth beyond plate other than consideration for wiring connections.

Four available versions:

- Locution LNVI-EZ-H: Ramped, for EZ Zone systems
- Locution LVNI-DL-H: Ramped, DALI (for Multi-Zone systems)
- Locution LNVI-H: Horizontal orientation (non-zoned)
- Locution LVVI-V: Vertical orientation (non-zoned), special order



#### **Night-vision Illuminator**

Locution LNVI-EZ-H,  
LNVI-H, LVNI-V,  
LNVI-DL-H  
Use: Bunk rooms,  
egress

**Reader boards** can be mounted to quickly convey key dispatch information. Locution offers one-line and four-line versions. Configuration elements, such as color keys, can be remotely updated and monitored.

### Specifications

Provides an immediate visual cue to specific responding unit(s)  
Scrolls or flashes dispatch information  
Display Dimension: 36" (60.9cm) L x 2.1" (24.5 cm) H  
Case Dimensions: 37.7" (95.76 cm) L x 3.8" (9.6cm) H x 2.9" (7.37 cm) D  
Weight: 4.7 lbs (2.13 kg)  
Display Array: 120 x 7 pixels  
One-line minimum/typical/maximum: 20/20/24  
Display Memory: 28,000 characters  
Pixel Size (Diameter): Pixel (LED) Color: 0.2" (.05 cm)  
Each dot can be red, green, or amber  
Center-to-Center Pixel  
Spacing (Pitch): 0.3" (0.8 cm)  
Character Size: 2.1" (4.3 cm)  
Case Material: Extruded aluminum  
Operating Temperature Range: 32° to 120° F (0° to 49° C)  
Humidity Range: 0% to 95% non-condensing  
Ceiling or Wall Mount



### 1-Line Reader Board

Locution MLRB-1L  
Use: Common areas,  
workout rooms,  
apparatus bay

### Specifications

Provides an immediate visual cue to specific responding unit(s)  
Configures to display and scroll dispatch information and unit status  
Note: Customer provides IP information for configuration to Locution.  
Locution then ships the plug-in-ready Reader Board to the customer.  
Dimensions: 39 11/16" L x 10 11/16" H x 3 3/16" D  
Case Material: Extruded aluminum  
Operating Temperature Range: 32° to 120° F (0° to 49° C)  
Humidity Range: 0% to 95% non-condensing  
Ceiling or Wall Mount



### 4-Line Reader Board

Locution MLRB-1L  
Use: Common areas,  
workout rooms,  
apparatus bay

**Response timers** can display turn out times. Locution offers a 3-digit models with ambient light correction for maximum visibility. They are also configurable to count up or count down.

Specifications

Indoor use  
Displays turn out times  
Dimensions: 9.1" (23.1 cm) H x 16.8" (42.7 cm) L x 1.5" (3.8 cm) D  
Weight: 3.2 lbs (2.13 kg)  
Character Height: 5.5"  
Viewing Distance: Up to 125 Ft.  
Operating Temperature Range: 32° to 104° F (0° to 40° C)  
Power: 24V, with lithium backup battery  
Color: Black frame with dark red plexiglass faceplate  
Case Material: Extruded aluminum  
Ceiling or Wall Mount



**Response Timer**  
Locution MDRT-3  
Use: Apparatus bay

The Locution **touchscreen monitor** can be used for **PrimeAlert® Station Zone Tracker** to display and configure assigned bunks in zoned systems. It can also be used for **PrimeAlert® Responder Station**.

Specifications

Indoor use  
Touchscreen: 23.8"  
Resolution: 1920 x 1080  
Dimensions: 14.6" (370.5 cm) H x 22.3" (567 cm) L x 1.8" (45.2 cm) D  
Weight: 16.5 lbs (7.5 kg)  
Operating Temperature Range: 32° to 104° F (0° to 40° C)  
Humidity: 0-90%, Non-condensing  
Ships with Wall Mount kit



**Touchscreen Monitor**  
Locution 50XT  
Use: Hallway near bunks for Station Zone Tracker, common areas for Responder Station

## **Locution PrimeAlert® Communication Center and Station Hardware Products**

Locution has avoided proprietary designs wherever possible to be able to offer the latest technologies as well as to minimize the costs for customers, both at initial purchases and in the future. When there is a need for hardware to complement off the shelf products to provide a system that is worthy to serve first responders, Locution has designed products to complete the solution. Coupled with our flexible, robust, and powerful software, this is how Locution has set the standard for automated fire station alerting for more than 30 years.

The Locution products listed below are current at the time of this publication. For more information about our latest offerings and quotes, please reach out to us ([www.locution.com](http://www.locution.com)).

**Locution PrimeAlert® Comm Center hardware** includes an industry standard server running Locution PrimeAlert® software. A PrimeAlert radio console PC and LCDI are also options for customers who implement PrimeAlert® Radio.

Details

Resides at Comm Center  
Connects to CAD, communicating via Locution  
Advanced Voice Alerting (AVA) or XML  
Delivers precise dispatches to multiple stations  
at the same time through IP via AVA  
Each dispatch goes to all stations on the call, simultaneously  
Often used as the primary alert method, with radio as backup  
(Can also be purchased without radio)



**Locution PrimeAlert®  
IP Alert**  
High uptime,  
Industry-standard server  
Use: Comm Center

Details

Delivers **sequential dispatches** to relevant stations/units  
Automated dispatching over 1 channel with 1 PTT radio;  
additional PTT's can be added for more channels  
Each dispatch goes over the air immediately, regardless of  
the number of stations or units on the call. If there is another  
dispatch while the radio is announcing, the next dispatch(es)  
will be queued up. Once the first announcement is complete,  
the radio will announce the next dispatch in the queue and so on.  
Lower cost than LCDI, but does not allow moving to other  
talk groups or channels  
Physical PTT cabinet in the Comm Center  
Often used as secondary alerting method, as a backup to IP  
Can also be purchased without IP

**Locution PrimeAlert®  
Radio Console  
(for Push-To-Talk)**

Industry-standard PC  
Use: Comm Center

Details

Intelligent routing and channel selection  
Can perform multi-selects, create call alerts, and has more  
control over talk priority than PTT  
Configurable thresholds to switch to abridged mode when  
queue exceeds limit  
One-click toggle to implement abridged mode  
Requires dedicated radio console (provided by customer)

**Locution Console  
Data Interface (LCDI)  
Radio**

Use: Comm Center

**Locution PrimeAlert® Station hardware** includes an industry standard PC running Locution PrimeAlert® software, hardware that provides important audio capabilities to support mission critical operation, automated relay control, and manual controls including doorbell, volume control, and on/off switch.

Details

Resides at Station

Available in 4 system types

**EZ-Zone:** Dynamic zoning option for stations with up to 12 bunks

**Multi-Zone:** Dynamic zoning option for stations with more than 12 bunks

**3-Area:** Static zoning option for up to three zones. Hardwired and cannot change without changing station wiring.

**Core:** Non-zoned option, best suited for single-unit stations

Can be wall mounted (24"H x 16"W x 6 ½"D ) or rack mounted (15RU)



Locution PrimeAlert®  
Enclosure

Use: Station

Details

Resides at Station

In-station computer connects to the Comm Center's server to provide IP dispatching

Hosts the Audio Database (ADB) to receive instantaneous dispatches over the network

When customers purchase their PC from Locution, they provide the IP information for configuration, so Locution can then ship the plug-in-ready PC to the customer

Customers can provide their own PC if it matches the current Locution spec (see PC Requirements doc).



Locution PrimeAlert®  
Enclosure PC

Use: Station

Details

Resides at Station

Primary control and interface between station software and all station cabinet hardware

Housed inside the system enclosure

Controls the programmable logic controller (PLC), countdown timer, and the Intelligent Audio Switch (IAS)

Receives audio from the station PC and routes the audio through the IAS

Conducts in-station audio tests with the press of a button

Front panel display shows status of software interface and whether the station equipment is in an active state

Converts PC audio to differential audio (better noise immunity)

Supplies PC monitoring for remote support capability

Supplies PC testing for remote support capability

Supplies 4 general purpose control relays



**Locution PrimeAlert®  
Station Control Unit  
(SCU)**

Use: Station

Details

Resides at Station

Main audio interface between EZ-Zone, 3-Area, and Core systems with the station audio amplifier(s)

Controls audio muting of up to 3 channels, muting all 3 inputs when a Locution PrimeAlert® dispatch occurs

Provides supplemental audio control capabilities that many amplifiers cannot perform alone

Detects the presence of radio traffic on input 1, waiting until audio is clear before announcing PrimeAlert® dispatch



**Locution PrimeAlert®  
Intelligent Audio  
Switch  
(IAS)**

Use: Station

Details

Resides at Station

Housed inside the station enclosure

Off-the-shelf relay PLC (note: the capabilities of devices under PLC control are the responsibility of the customer)

Can be used to:

Automatically open and close apparatus bay doors and gates

Turn lights on/off

Control traffic signals

Turn off gas stoves

Activate fans

Monitor station devices including:

Acknowledgement buttons

Still alarm controls

Test buttons

Doorbells

Fire alarms and CO sensors



**Locution PrimeAlert®  
Program Logic  
Controller  
(PLC)**

Use: Station

Details

Resides at Station

Continuously monitors the voltage, surges, spikes, and outages

Automatically switches to AC battery to protect equipment in the event of a power outage

Available versions: 700 VA, 900 VA, 1050 VA, 1500 VA, 2200 VA



**Uninterruptible  
Power Supply  
(UPS)**

Use: Station



Details

**Resides at Station**

Connected to individual speakers to provide volume control of speakers in the station

Also available in 100W (used primarily for bay speakers)

Count and design is always identified by Integrations Team



**Volume Control**

Use: Station

Details

**Resides at Station**

Automated doorbell notifies station personnel of visitors at station entrances

Specific message announces which doorbell has been activated  
Each system comes with pre-set messages that can be customized and added to the Audio Database (ADB)

Note: Any Audio Database (ADB) add must be done to the main contact at the City/County, which is managed by the head of Locution ADB



**Door Bell**

Use: Station

Details

**Resides at Station**

Allows manual muting and unmuting of radio traffic at the station during the day or night

Dispatch information for unit(s) at the station will always be aired, however, unnecessary radio chatter is not heard while in night mode

Can be added to all system types

Often used to hear surrounding stations' radio traffic during the day, but limit to hear only your station at night



**Day/Night Switch**

Use: Station