LOCUTION HARDWARE PRODUCT CATALOG

*Setting the Standard
for Automated Fire Station Alerting*

16 June 2025

OVERVIEW

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, email at 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 awaken 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).

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 $^{7/8}$" Diameter x 2.5" depth
Weight: 4.2 lbs
Color: White powder coated finish

Ceiling Loudspeaker
Locution 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 $^{7/8}$" Diameter x 4 $^{1/16}$" depth

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

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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
Locution TSPK-TL

Specifications
Indoor use
Sensitivity: 92 dB SPL, 1W/1M
Power Rating: 12W RMS, EIA 426A Standard
Max Power Rating: 15W @ 8 Ohms
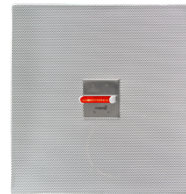Freq Response: 65 Hz – 17 kHZ, EIA 426A Standard
Nominal Coverage Angle: 100° Included Angle,
-6 dB/2 kHz half space
Dimensions: 23 $^{13/16}$" (W) x 23 $^{13/16}$" (L) x 3 $^{1/2}$" (D)
Weight: 6.35 lbs + weight of light selected
Color: White powder coat finish
Light choices include: Night Vision Illuminator (LNVI-H), Ramped Night Vision Illuminator (LNVI-EZ) and Strobe

Tile Replacement
Speaker with
Locution TSPK-TL-DR

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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 d
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
Locution 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
Locution 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
Locution TPSK-WF
Use: Dorm rooms

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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).

Color-coded alert lighting can quickly convey important information to first responders. Locution 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)
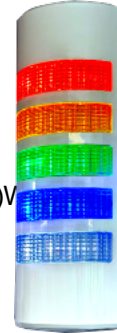Lens and base material: Polycarbonate (94V-0)
LED average life: 30,000 to 50,000 hr continuous operation
Dimensions: 45 mm (1.77") D x 245.7 mm (9.67") L x 90 mm (3.54")W
Weight: Up to 4.2 lbs
Choice of 3, 4, or 5 colors
Note: Color order requires factory configuration

Surface Mount Multi-unit Indicator Light
Locution 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
Locution 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

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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*
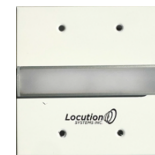   Locution NVR-NF: LNVR lights sold without fixtures

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

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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

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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).

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

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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

Uninterruptable 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