



# ezRoom ELEVATE Spring 2023 Update

## Overview

ezRoom Voice & Alert (ELEVATE) systems shipping starting in March 2023 includes several improvements for usability and reliability.

## Firmware Versions

Component	Old Version (shipping since Feb 2022)	New Version
ELEVATE Microphones	1.13	1.25
ELEVATE Base Station	(System) 1.05 / (DECT) 1.16	(System) 1.11 / (DECT) 1.19
CM900	2.0.0.3	2.0.1.22

## Field Updates

It is recommended, though not required, that any existing ezRoom ELEVATE systems be updated with the latest CM900 firmware, especially if the ezRooms are used with Conductor. The update can be performed remotely by the FrontRow Technical Services Group. Contact [customercare@boxlight.com](mailto:customercare@boxlight.com) to schedule the update. Note that configuration files created with 2.0.0.3 are compatible with 2.0.1.20.

Existing ELEVATE Microphones and Base Stations DO NOT need to be updated as the new CM900 firmware will work with them.

## How to Check Version Numbers

- To get the current the CM900 firmware version, go to the About page on the CM900 Configuration Pages.
- To get the current firmware versions of the Base Station (DECT Host) and Microphones, check the Microphone Information page on the CM900 Configuration Pages.

Microphone Information							System Information	
State*	PID	Version	Type	Vol**	hID	Name	Component	Version/ID
<input type="button" value="Delete"/>	39:54:0F:29-03:42:E3:B4:80	1.20	Teacher	7 ▾	1		Device Type	1001
<input type="button" value="Delete"/>	41:54:0F:29-03:42:E3:B3:30	1.20	Student		2		Device ID	42:54:10:0F-00:00:00:00:00
<small>* All mics must be Inactive in order to Delete any mic. Put mics in chargers or wait until Inactive, then refresh page.            ** Vol available only on Teacher mics.</small>							API	1.1
<small>For best performance limit the number of registered microphones to 8 or less.</small>							System MCU	1.07
							DECT Host	1.18
							DAP	1.00
							PrivaSEE	1.01
							ClassLight	1.01

## What's New

*\*Requires latest firmware for Mics, Base Station, and CM900*

### Improved Microphone Registration Experience\*

You can now easily move microphones between rooms! To move a microphone from one room to another:

1. Put the Base Station in the destination room into Registration Mode. (Press the physical button on the Base Station, the programmed button on a FrontRow control panel, or the Registration Mode On/Off button on the Mic Info web page on the CM900) The ClassLight in the ezRoom will now flash GREEN (instead of Blue) to indicate it is looking for microphones.
2. Press and hold the microphone mute button for 4 seconds until the triple-beep, then release. When the ClassLight stops flashing and the microphone beeps, it is registered and ready to use. If the microphone fails to find a new Base Station in 60 seconds, it will automatically reconnect back to its existing Base Station.

With the above method, you no longer need to first delete a microphone from the CM900 microphone list, nor open the back of the microphone and use the pinhole button to force the mic into registration mode.

This same process also applies when you first register a mic with a Base Station. For a new ezRoom, charge the mic for at least 2 hours, remove from charger, wait for the mic to finish starting up (double-beep), then follow the steps above to register the mic with the room.

### Save and Restore default settings\*

New! To restore your current volume levels and PrioriTeach setting as to the saved defaults, press the UP & DOWN buttons together once.

As before, if you wish to Save the current values as the new defaults, press and hold the UP & DOWN buttons together for 4 seconds (long press) until the triple-beep, then release.

### Hibernation Mode\*

Now you can place either the Action! (Teacher) Mic or the Bravo! (Student) Mic into hibernation mode with the same method. Simply press and hold the Mute button until the mic plays a long beep then shuts off (about 8 seconds).

### New Push-To-Talk Mode

The CM900 Offers a new mode when used as a Master Device on the PA/Intercom page. Push-To-Talk mode can now be set to "Intercom Only", so that users can use streaming music during PA announcements, without holding down the Gooseneck Mic PTT button. (This models the old CM3000 method, for customers that relied on this behavior.)

### Coming soon – new ELEVATE Mic Settings App!\*

With the new microphone firmware, the mics will support the upcoming Mic Settings app (Mac & Windows), which allows users and technology administrators to name microphones, get device data for troubleshooting, update firmware, and more. Connecting the computer to a microphone requires a special cable (part number 6414-00171) available from FrontRow.

### Default to Mute on Wake\*

With PrivaSEE enabled, the teacher microphone would automatically unmute when removed from the charger or when picked up and waking from sleep. This has been changed so that the mic, when bootup is finished, stays muted (by popular request). In a future version of the Mic Settings app, this will be a configurable setting.

### Microphones Ship with PrivaSEE Off

For a simpler setup experience, the teacher microphone now ships with the switches in the back of the mic set to PrivaSEE Mode A, which disables PrivaSEE. (Student Mics ignore the switch settings and do not support PrivaSEE).

To enable PrivaSEE (to enable auto-mute when leaving the room), open the back of the microphone and change the switches to PrivaSEE Mode B (see User Guide).

The PrivaSEE signal can be interrupted from other IR devices such as interactive flat panels, security systems, etc. If turning it on, test thoroughly to ensure the mic does not automatically mute while in the classroom, indicating interference. To improve performance, you can try changing the PrivaSEE settings on the CM900 web page.



## Fixes and Other Changes

- To prevent issues when disconnecting and reconnecting the Base Station from the CM900, auto-detection of the Base Station has been removed from the CM900. To use a CM900 with the ELEVATE Base Station, the ELEVATE Mode must be manually enabled on the Advanced Configuration Page. This should only be performed by knowledgeable installers.
- Fixed a rare issue where the CM900 would not restore local audio after a long PA stream/session.
- Fixed a rare issue where the Base Station would fail to start the PrivaSEE IR beacon after a reboot, preventing the microphone from unmuting.
- Fixed an issue where the ClassLight would stay magenta after a PA announcement, even though the stream had stopped.
- Reduced the audio pop during bootup / restart of the audio system.
- Improved table on CM900 Mic Buttons page showing the Circle and Diamond LED status behavior.
- The student mic will now ignore the PrivaSEE switch settings in the battery compartment (PrivaSEE is not supported on the student mic).
- Fixed an issue where trying to register the microphone with a low battery could result in a partial registration, where the mic would not work but the Base Station thought it was registered. Registration is now prevented when battery is low.
- Improved handling of system transition between normal and POE power.
- Fixed an issue where audio increment commands would not apply for any number higher than 1. For example, the command #AIN1[1, L+3];" (turn up input 1 by 3) would only turn up the level 1 increment. This has been fixed.
- New commands for the command line page on the CM900:
  - Can now use #GP1x[]; where x = 4 checks PGO state, x = 5 checks Alarm input state, and x = 6 checks PoE switch state. In each case, "CLOSE" return means state is active (e.g. input detected).
- On the CM900 Audio page, the "Current Levels" are now shown next to each audio control. The current level may have been changed from a source other than the CM900 page itself, such as a microphone or Control Panel. The audio level drop-down selector is still used to set the power-on level and change the current level when "Save Settings" is applied.

The screenshot displays the frontrow CM-900 ELEVATE Base Station configuration interface. At the top, the device name is 'New Device' and the status is 'Okay / Running'. The 'Audio' configuration section is highlighted, showing the following settings:

Control	Value	Current
Master volume	20	16
Audio 1	24	24
Audio 2	24	24
Audio 3	24	24
Aux Out volume	26	26

A 'Save Settings' button is located below the volume controls. A note states: 'Selectable values shown may not be actual current levels if they were changed from other sources such as the microphone or control panels. Press Save Settings to apply currently selected levels.'