

Echoflex Solutions Release Note

Elaho Room Controller–Gen 2

Product Line: Elaho Room Controller–Gen 2
Description: Version 3.3.4 Firmware

Room Controller–Gen 2 Components

Room Controller–Gen 2 Firmware	3.3.4.950
Echo Protocol	3.3.4.950

Effective Date: 2021-04-29

Purpose

This release incorporates improvements from newer Echo Protocol versions.

This firmware is used in the following:

- Elaho 4-zone Room Controller–Gen 2
- Elaho 4-zone Room Controller–Gen 2 with integrated Elaho TimeClock
- Elaho 8-zone Room Controller–Gen 2
- Elaho 8-zone Room Controller–Gen 2 with integrated Elaho TimeClock

For any questions relating to the contents of this release or the behavior of this firmware, please contact Echoflex Solutions Technical Services using the information at the bottom of this page.

Availability

This firmware is currently available in new shipping units.

Documentation

Current documentation includes the following items:

- *Elaho Room Controller–Gen 2 Installation and User Operation Manual*
- *ElahoAccess App integrated help*
- *ElahoAccess Application Quick Guide*

Please keep this release note with your installation manual for descriptions of the newest features, changes, and bug fixes. Manuals are in portable document format (pdf) and are available for download at echoflexsolutions.com.

Echoflex Solutions Release Note

Room Controller–Gen 2 v3.3.4

Compatibility

For questions regarding compatibility, please contact Echoflex Solutions Technical Services.

Compatible Elaho Products

This release is interoperable with the following Elaho hardware and software/firmware:

Product	Earliest Device Compatibility	Optimal Feature Compatibility
ElahoAccess App-iOS	v1.0.0	v3.3.1
ElahoAccess App-Android	v1.0.0	v3.3.0
ElahoAccess Interface	v1.0.0	v3.3.4
Elaho Expansion Bridge	v1.0.0	v3.3.4
Elaho BACnet Interface	v3.0.0	v3.3.4
Elaho Integration Interface	v3.3.1	v3.3.4
ElahoTouch	v3.0.0	v3.1.0
Elaho DMX Scene Controller	v1.0.0	v3.3.4
Elaho-Echoflex Interface	v1.0.0	v3.3.4
Elaho Contact Input Interface	v1.0.0	v3.3.4
Elaho Contact Output Interface	v1.0.0	v3.3.4
Elaho Demand Response Interface	v2.0.0	v3.3.4
Elaho Responsive Controls	v1.0.0	v3.3.4
Elaho Dual Tech Occupancy and Vacancy Sensors	v1.0.0	v3.3.4
Elaho Dual Tech Switch-mount Occupancy Sensor	v1.0.0	v3.3.4
Elaho Room Controller - Gen2	v1.0.0	v3.3.4
Elaho Zone Controllers - Gen2	v1.0.0	v3.3.4
Elaho Inspire Stations	v3.0.0	v3.3.4
Elaho Keyswitch Stations	v3.2.0	v3.3.4
Elaho TimeClock	v1.0.0	v3.3.4
Elaho Preset Stations	v3.0.0	v3.3.4
Elaho Relay Panels	v1.0.0	v3.1.2

Echoflex Solutions Release Note

Room Controller–Gen 2 v3.3.4

Key Enhancements in v3.3.4

- Incorporates improvements from newer Echo Protocol versions

Initial Features v1.0.0

This is the initial release of the Elaho Room Controller–Gen 2 firmware.

Initial features in Elaho Room Controllers–Gen 2 include:

- Integrated UL 924 sense feed input for emergency triggering
- 0–10 V line voltage isolation
- Individual circuits now have Space and Zone configuration using ElahoAccess Mobile App
- Demand Response contact closure can trigger all connected Elaho devices
- Increased functionality for contact input triggers

The above listed features are in addition to Elaho Room Controller (generation 1) features:

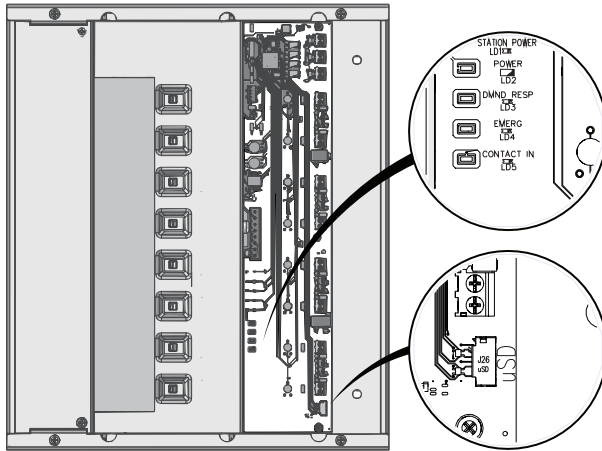
- Support for custom configuration using ElahoAccess
- Four- and eight-zone options
- 120–277 VAC power input with 20 A fully-rated relay for use with general purpose, tungsten, fluorescent and LED loads
- Demand Response load shedding
- 0–10 V dimming for direct connection to dimming ballasts and LED drivers
- Plug and play: ready-to-go out of the box; no software or external programming required
- Supports Inspire control stations, Elaho Preset Stations, and Responsive controls
- Field upgradable using micro SD
- EchoConnect: Two-wire, topology-free system gives you the freedom to put stations where you need them
- 6 unit power supply included, supports 6 stations or sensors and 5 other Elaho host products:
 - Up to 16 Elaho devices (stations and sensors) using an external Elaho power supply
 - Up to 16 power controllers or panels using an external Elaho power supply
 - Up to 500 meters (1,640 feet) of control wire per system using Belden 8471 (or equivalent)

Echoflex Solutions Release Note

Room Controller–Gen 2 v3.3.4

Firmware Installation Instructions

Elaho Room Controllers–Gen 2 ships with the current version of firmware installed and will not require an update before use. Existing hardware can be field upgraded using a microSD card. New firmware for the Room Controller–Gen 2 is available through ETC UpdaterAtor software.



1. Get the firmware update file using UpdaterAtor and save it to the root directory of a compatible microSD card.



Note: *Compatible cards include SDHC microSD media up to 32 GB, formatted to FAT32. SDXC is not compatible. A compatible card is available from Echoflex Solutions, order part number A157-F.*

2. With power applied, remove the front cover of the enclosure.
3. Insert the microSD card into the uSD slot located on the bottom right side of the printed circuit board. The Power LED (blue) will blink to indicate the update process has begun and will return to a steady state when complete.



Note: *Do not remove the microSD media until the LED stops blinking.*

4. When the update is complete, remove the microSD card and replace the cover.

View the current version information for the device using the ElahoAccess App. See the ElahoAccess App integrated help system for details.

Echoflex Solutions Release Note

Room Controller–Gen 2 v3.3.4

Issues Corrected in v3.3.4

None: Incorporates improvements from newer Echo Protocol versions

Known Issues Remaining in v3.3.4

None.

Issues Corrected in Echo Protocol v3.3.4

EC-47203 Implement Echo Bus communication efficiency reporting

Issues Corrected in Echo Protocol v3.3.1

EC-47110 Active status indication can occasionally blink off on busy EchoConnect bus

Known Issues Remaining in Echo Protocol v3.3.4

- EC-47116 Space Toggle button on Inspire station not affected by level of ET channel not patched to zone
- EC-47111 Zone/Preset/Sequence status can "flutter" very occasionally due to a receiving host timer rollover
- EC-47077 Multispace off button occasionally flashes on when sequence is still playing
- EC-47074 Off actions using timing from an active preset rather than the 2 second standard
- EC-47070 Mobile app shows sequences active for sequences 2-4, not just 1
- EC-47063 Multispace hosts maintain preset status in previously-patched spaces
- EC-46888 Late joining occupancy sensor controls will assert their configured occupancy action even if associated group was already in occupied state
- EC-45629 Hold event configured with fade time for "set to color" actions fades intensity on hold
- EC-45596 Differing space/zone levels across bridge segments causes station indication to bounce between values
- EC-45462 "Uncombine All" may not uncombine all combined spaces on full Echo bus.
- EC-45202 Editing spaces affected by a Demand Response input momentarily sets spaces to false during true condition
- EC-44495 Products with Power on behavior can show active zone levels and activated Off status at same time
- EC-44432 Manual control from non native space does not trigger occupancy when occupancy action is multi-space
- EC-44154 Occupancy groups, vacancy inhibit, and photo inhibit do not support all spaces of a multi-space action
- EC-43350 Accessing the Config page on multiple simultaneous mobile app connections causes duplicate devices to be listed
- EC-43262 Vacancy action Preset activate can be missed after a grace restore has been triggered due to support for older Occupancy sensors
- EC-43138 On occasion large batches of patch config messages can fail to transmit correctly resulting in skipped addresses
- EC-43020 When two presets are active in the same space, preset indication toggles between both presets
- EC-42572 Unable to toggle sequence off from combined space that does not possess a sequence enabled output product
- EC-42401 Space Combine Toggle won't uncombine spaces without any host output products
- EC-38851 Late joining bridge results in oscillating mismatched Zone values if different segments have different values for same zones
- EC-38839 Late joining bridge results in oscillating mismatched statuses if different segments have different status for same spaces
- EC-38694 Zone status does not zero out after last output product for that zone changes to new space
- EC-35126 Space toggle when Zones are not at full sets Zones to 0 rather than all at full
- EC-34543 Sequence indicator toggles state rapidly when output device with sequence active late joins Echo bus with output device that has inactive sequence
- EC-28417 Station activity during sync period following connection of late joining output product incorrectly does not cause LED chase