Echoflex Solutions Release Note
Elaho Room Controller–Gen 2

Product Line:	Elaho Room Controller–Gen 2
Description:	Version 3.3.6 Firmware

Room Controller–Gen 2 Components	
Room Controller–Gen 2 Firmware	3.3.6.961
Echo Protocol	3.3.6.961

Effective Date: 2022-02-17

Purpose

This release adds support for an alternate CPU.

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 v3.3.6

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	v3.3.6
Elaho BACnet Interface	v3.0.0	v3.3.6
Elaho Integration Interface	v3.3.1	v3.3.6
ElahoTouch	v3.0.0	v3.1.1
Elaho DMX Scene Controller	v1.0.0	v3.3.4
Elaho-Echoflex Interface	v1.0.0	v3.3.6
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	v3.3.6
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	v3.3.5
Elaho Preset Stations	v3.0.0	v3.3.4
Elaho Relay Panels	v1.0.0	v3.1.3

Echoflex Solutions Release Note

Room Controller–Gen 2 v3.3.6

Key Enhancements in v3.3.6

- Adds support for an alternate CPU

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:
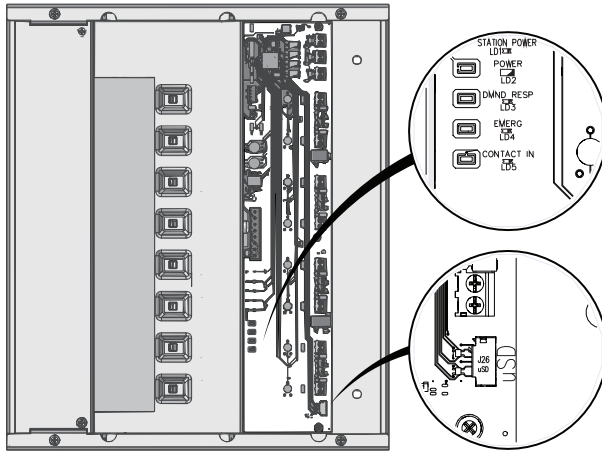
- Support for custom configuration using ElahoAccess
- Four- and eight-zone options
- 120–277 VAC power input with 20 A fully-rated relay for use with general purpose, tungsten, fluorescent and LED loads
- Demand Response load shedding
- 0–10 V dimming for direct connection to dimming ballasts and LED 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 v3.3.6

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 v3.3.6

Known Issues Remaining in Echo Protocol v3.3.6

EC-47174	Two hosts with the same color temperature zone patched can result in alternating color temperature indication
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	Multi-space 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	Multi-space 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