

Echoflex Solutions Release Note

Elaho Zone Controllers–Gen 2

Product Line: Elaho Zone Controllers–Gen 2
Description: Version 3.3.4 Firmware

Zone Controllers–Gen 2 Components

Zone 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 Zone Controllers–Gen 2:

- Elaho 0–10V Controller–Gen 2
- Elaho Phase-Adaptive Dimmer–Gen 2
- Elaho Forward-Phase Dimmer–Gen 2
- Elaho Relay Controller–Gen 2
- Elaho SmartSpace Controller–Gen 2

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 0–10V Controller–Gen 2 Installation Guide*
- *Elaho Phase-Adaptive Dimmer–Gen 2 Installation Guide*
- *Elaho Forward-Phase Dimmer–Gen 2 Installation Guide*
- *Elaho Relay Controller–Gen 2 Installation Guide*
- *Elaho SmartSpace–Gen 2 Controller Installation Guide*
- *ElahoAccess App integrated help*
- *ElahoAccess Application Quick Guide*

Please keep this release note with your installation guide 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.

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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

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Key Enhancements in v3.3.4

- Incorporates improvements from newer Echo Protocol versions

Key Enhancements in v3.3.0

- Initial release of Elaho Forward-Phase Dimmer–Gen 2

Key Enhancements in v1.0.0

Initial features in Elaho Zone Controllers–Gen 2 include:

- Ability to respond to Demand Response triggers
- Field upgradable using micro SD
- Support for custom configuration using ElahoAccess
- Single- and dual-zone options (Phase-adaptive Dimmers and Forward-phase Dimmers are single-zone only)
- 120–277V AC power input with 20A fully-rated relay for use with general purpose, tungsten, fluorescent and LED loads (Relay Controllers, 0–10V Controllers, SmartSpace Controllers)
- 600-watt 120V or 277V Phase-adaptive Dimmer
- 0–10V dimming for direct connection to dimming ballasts and LED drivers (compatible models only)
- 24 VDC for occupancy sensor power (SmartSpace Controller only)
- Accepts contact closure trigger for occupancy status (SmartSpace Controller only)
- Plug and Play: ready-to-go out of the box; no software or external programming required
- Supports Elaho Control Stations and Responsive Controls
- EchoConnect: Two-wire topology-free system gives you the freedom to put station where you need them:
 - Up to 16 stations and sensors
 - Up to 16 power controllers or panels
 - Up to 500 meters (1,640 feet) of control wire per system (Belden 8471 or equivalent)

Installation Instructions

Elaho Zone Controllers–Gen 2 ship with the current version of firmware installed and will not require an update before use.

For existing controllers, you can update the firmware by using ETC UpdaterAator software and a microSD card. You can download UpdaterAator from the ETC website at etconnect.com, or you can access UpdaterAator from ETC Concert software.

1. Get the firmware update file using UpdaterAator.
2. Save the firmware update file to the root directory of a microSD card.
3. Ensure that power is supplied to the controller.
4. Insert the microSD card in the SD slot on the side of the Zone Controllers–Gen 2 enclosure.
 - An LED will illuminate amber in a triple-blink pattern while the firmware is updating, and then will return to its previous state when the update is complete.
 - If the LED illuminates red in a double-blink pattern, an error has occurred. Ensure that the firmware file has not been renamed and is located at the root directory on the microSD card, and then attempt the firmware update again. If the LED continues the double-blink pattern, contact Echoflex Solutions Technical Services using the information at the bottom of page 1.
5. When the LED returns to its previous state, remove the microSD card.

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Issues Corrected in v3.3.4

None: Incorporates improvements from newer Echo Protocol versions

Known Issues Remaining in v3.3.4

- EPCG2-47080 If microSD card isn't found after rebooting to upgrade, controller may require a button push to reboot into normal operation
- EPCG2-47077 Phase-adaptive dimmer does not change to Reverse Phase with defaults restoration while running Forward Phase

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