

# RAYN Growing Systems Release Notes

RAYN Syrcadia Software

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Product Line: RAYN Syrcadia Software  
Description: Version 2.2.0 Software  
Effective Date: 2023-11-16

## Purpose

Syrcadia software v2.2.0 is released for the RAYN Touch Controller and PC, containing new features, optimizations, and bug fixes.

For any questions relating to the contents of this release or the behavior of this firmware, please contact RAYN Growing Systems at [support@rayngrowingsystems.com](mailto:support@rayngrowingsystems.com).

## Availability

You may obtain this release of Syrcadia software from your RAYN Growing Systems provider.

## Documentation

The onboard help system is available via the question mark (?) button within the software. The *RAYN Touch Controller User Manual v2.2.0* PDF is available for download from the RAYN Growing Systems website, [rayngrowingsystems.com](http://rayngrowingsystems.com). Use of RAYN Syrcadia software on the RAYN Touch controller is included in this manual.

The *RAYN Touch Controller Installation Guide* is also available for hardware installation instructions.

## Compatibility

This release is compatible with the following RAYN Growing Systems hardware:

- RAYN Touch Controller

RAYN Syrcadia Software can also be installed on computers running the following operating systems:

- Windows 10, 11

## Installation Instructions

### RAYN Touch Controller

To update your RAYN Touch controller to v2.2.0, you will need to acquire the firmware file from your RAYN Growing Systems provider, unzip the file, and load it onto the root directory of a USB memory stick.

#### To update to v2.2.0:

1. If the file has been provided as a zipped archive, unzip the file.
2. Transfer the unzipped file to the root directory of a FAT32-formatted USB memory stick.
3. Insert the USB memory stick containing the firmware into the USB port on the controller.
4. Press the Settings (gear) button to open the System Settings.



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5. Press the Files tab.
6. Press the Advanced button, then "Update Firmware" in the drop-down menu.
7. When the update has completed, remove the USB stick from the unit. Follow any additional instructions on the controller.

### PC

To install or update the RAYN Syrcadia software on PC, you will need to acquire the software from your RAYN Growing Systems provider.

#### To install or update to v2.2.0:

1. If the .exe installer has been provided as a zipped archive, unzip the file.
2. Double-click the installer. The RAYN Syrcadia Setup window will appear.
3. Follow the Setup prompts and click the "Install" button to begin software installation.
4. Click "Finish" when prompted. RAYN Syrcadia is now ready to use on your PC.



**Note:** *As Syrcadia PC installations will not uninstall or overwrite older versions, it is possible to have multiple versions installed. Users may uninstall versions as desired using Windows Settings.*

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### Key Enhancements in v2.2.0

- Support for Python-based function blocks, adding customized functionality to day plans and allowing for regulation of conditions based on sensor inputs and day plan setpoints. Default and custom function blocks are supported.
- Added support for MQTT, allowing bidirectional communication and control between Syrcadia and third-party MQTT devices and systems.
- Day plan improvements:
  - Users can now define custom day lengths.
  - Day plans can now include direct relay and dimmer actions, set point markers, and repeats, in addition to spectrum triggers.
  - Day plans setpoints can now interact with function blocks.
  - New repeat and stop functionality allows recurring switching operations.
  - New switch and analog options for third-party devices.
- Link function allows users to connect devices added manually to the configuration with real fixtures discovered in the lighting system.
- Devices now support text names.
- Many internal and user interface optimizations.

### Key Enhancements in v2.1.0

- RAYN Syrcadia is now the name of the software that runs on RAYN Touch controllers. Introduction of RAYN Syrcadia software for PC in basic and unlocked modes. PC operation requires use of the RAYN Syrcadia USB key to unlock either basic (single zone, reduced device count) or unlocked (all features available, large device count) systems.
- Bright Mode user interface is now the default. Switch back to the dark mode in Settings.
- Fetch function pulls data for selected devices from spectra/overrides in another zone to the current zone. Data can then be adjusted and stored as necessary.
- Alert notifications are now consolidated into one tab and can be cleared in bulk.
- Improvements to export of sensor data.
- Improvements to the user interface.
- Improvements to the resume function when the scheduler is interrupted.

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- Improved RDM performance.
- Bug fixes.

### Key Enhancements in v2.0.2

- Purge Sensor Data: backup and purge sensor data to help manage configuration file size.
- Bug fixes.

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### Issues Corrected in v2.2.0

- ADIANTE-313 Lighting: Changing DMX universe on an RDM device improvements
- ADIANTE-271 Resume: Clean up of existing resume functions
- ADIANTE-265 Patch Lighting: Add scrollbar
- ADIANTE-258 RDM: Find and Identify buttons should be hidden if RDM is disabled
- ADIANTE-239 Config loaded: Show Resume button in zone(s) with Day Plan
- ADIANTE-235 Spectrum view: Improve display of single white lights
- ADIANTE-226 Fetch function: Allow selected data types to be copied from other zones
- ADIANTE-218 Scheduler: GOTO: Disable Real Time mode when GOTO is used
- ADIANTE-216 Update RAYN Touch Remote to Syrcadia Remote
- ADIANTE-210 Files: Remember filename between sessions
- ADIANTE-207 Topo: Add zoom-to-fit button
- ADIANTE-201 Patch: Changing to high channel number can crash if few channels are patched
- ADIANTE-200 Patch/RDM: Entering the Device List should activate RDM Discovery mode
- ADIANTE-199 Inventronics 0-10V interface: Select a specific device type from popup list
- ADIANTE-191 Alerts: Add a command to clear all alerts
- ADIANTE-188 Date, time and temperature settings are now preserved through a Firmware update and "File-New"
- ADIANTE-185 Preferences: Move Lux mode setting into Preferences
- ADIANTE-180 Sensors: Improve export of sensor data
- ADIANTE-177 Fade times: Time below 1 second doesn't fade + adding web commands
- ADIANTE-171 Sensor ranges should default to effectively 'infinite'
- ADIANTE-166 Changing Spectrum name does not update the Spectrum name in the Zone
- ADIANTE-165 Show Fade Progress or Day Plan Spectra with long fade times
- ADIANTE-164 Universe Map: Clearing an overlap warning in the list doesn't refresh the Universe Map
- ADIANTE-149 Preferences: Show Seconds should be preserved when making New
- ADIANTE-137 Regulation: disable regulation while recording
- ADIANTE-130 Patch: Changing channel numbers will clear output but not update mimic and topo
- ADIANTE-124 Auto Resume: Add settings to allow Adiante to resume activity after a certain time in manual mode
- ADIANTE-123 Stability improvements during lighting fixture discovery (RDM), configuration and set-up.
- ADIANTE-122 Fade Time: All Off should use the programmed timed from the Scheduler
- ADIANTE-112 GUI: "Bright mode" design for high-ambient-light environments
- ADIANTE-111 RAYN Touch Controller: Large sensor logs can cause controller to hang
- ADIANTE-105 Selection border on device cells too subtle
- ADIANTE-103 Keep device selection when switching in and out of zones
- ADIANTE-84 Sensor Chart: Performance Improvements