Lutron Athena System User Guide

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Purpose of this document
This document will be updated frequently as new features and capabilities are added to the Athena system.
- Summarize what the Athena app / system can do
- Explain Operations & Maintenance

What is an Athena System

Overview
Athena is a flexible, simple, all-in-one solution that combines the world's most advanced light source with intelligent shades and connected apps to deliver a holistic light experience.

The most up-to-date information about the system can be found on our website:
https://www.lutron.com/en-US/Products/Pages/WholeBuildingSystems/athena/overview.aspx

For further system architecture and device details see:
https://www.lutron.com/TechnicalDocumentLibrary/3685737_Athena_System_Architecture.pdf

Athena is an evolving solution that like other modern software solutions, when Internet connected, receives frequent updates and improvements adding new features, bug fixes, and security enhancements.

System Setup
Athena systems are commissioned by a Lutron Field Service Engineer (FSE) using Lutron Designer software.

Connectivity
Athena systems are comprised of one or multiple connected processor / gateway devices that communicate with each other via a system Ethernet lighting control network. Internet access is required for system start-up and highly recommended for ongoing system usage. The lighting control network can be cloud-enabled via the included LTE modem module or can be interfaced with an existing building IT network. If the Athena network does not have internet access, the Athena hub will not receive automatic firmware updates and the system will not be accessible via the Lutron app.

LTE Modem
Lutron provides out-of-the-box cloud connectivity to Athena systems via an included LTE modem module for use during system start-up. This allows for a secure and seamless start-up, software updates, remote service / support, and fast and easy connectivity without any advanced network configuration. For ongoing internet connectivity, Lutron recommends connecting Athena processors to an internet connection that supports outbound requests. The LTE modem is currently not available for long term internet access and is only for start-up use.

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Lutron App

The Lutron app is available on the Apple App Store. The app can be used to connect with an Athena system via the cloud or local network, control and monitor lighting, as well as make changes to system / scene programming.

App Features

- Connect to system securely via cloud
- View current levels of system lighting
- Navigate area hierarchy to view lighting zones
  – Easily toggle all lights on / off in an area
- Activate scenes within areas
- Control lights
  – Adjust all lights in area together with master control
  – Control individual lighting zones (app controls for zone types described below)

Load Type	Intensity Control	CCT Control	Color Palette
Ketra	X	X	X
0-10 V (static white)	X		
0-10 V (tunable white CCT / INT)	X		
T-Series	X		
DMX*	X		
DALI	X		
Contact Closures	X		

* Loads configured as DMX 1-channel in Lutron Designer will be shown with a 0-100% slider in the app. Multi-channel DMX fixtures may be configured as multiple 1-channel loads.

- Scene editing
  – Manual text entry of intensity levels for all load types
  – Manual CCT and x / y text entry for Ketra loads
  – Modify the light levels for area scenes
  – User experience tailored for Lighting Designer scene tuning
  – Fine-tuning mode
  – Use phone's camera to select a color for Ketra loads
  – Set the Fade properties for the scene (for all dimming loads)
  – Set the Delay properties for the scene (for non-Ketra loads)
  – Specify zones as affected / unaffected for the scene
  – For tunable white lighting (0-10 V, T-Series, DMX, DALI) only intensity can be edited

- Load shed (activate / deactivate)

- Timeclocks
  – Create scheduled events to activate lighting scenes
  – Delete scheduled events
  – Enable / disable events
  – Test events
  – Events may be on specific dates, or reoccur weekly
  – Modify which scene is activated per area
  – Edit event name
  – Edit time of day, days of week or dates

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Lighting Designer Experience

The Lutron app incorporates a streamlined workflow for lighting designers to realize their vision in a space by seamlessly connecting to the Athena system and adjusting scenes in any area.
Lighting designer features (iOS only):

- Quickly connect to system via cloud
- Easily find your area by toggling area lighting on/off
- Preview each scene in an area
- Adjust light levels live in real-time with an area with a master control
- Control and set lighting
  – Intensity
  – Color Temperature (Ketra)
  – Full Color (Ketra)
  – Vibrancy (Ketra)
  – Fade (for all dimming loads)
  – Delay (for non-Ketra loads)
- Quickly save your settings to a scene with "Save to" function
- Fine-Tuning mode allows you to make small incremental changes (uses full screen and haptic feedback)
- Text entry for intensity, CCY, x/y allows for precise adjustments and copy/paste

Cloud Services

Project Account Authorization

Athena systems are associated with a single Lutron account setup in the app. Multiple users will be able to access a single Athena system with individual myLutron accounts in a future update.

Software Updates

Athena system software can receive updates via the cloud for new features and improvements. Certain new features may require on-site setup, configuration, or hardware additions. For systems without Internet access, systems can be updated by a Lutron Field Service Engineer visit.

Simple Connectivity

If the Athena system is connected the internet, you can access the system via the Lutron app as long as your device has an internet connection. For more information on how Athena connects to the cloud, go to www.lutron.com/athenaITguide

Service and Support

In the event of an issue with the system, Lutron can remotely gather diagnostic information (if granted permission) for the internet-connected Athena system and may be able to resolve the issue without requiring an on-site visit.

Third-Party Integration

The Athena system cloud connection allows for cloud-based integrations such as voice control with third-party systems.

Programming Features

Athena system programming is initially created by Lutron in the Lutron Designer software. Many changes to the system can then be performed using the Lutron app.

Scenes

Each area may contain up to 16 scenes plus an OFF scene. Area scenes are initially created in the Lutron Designer software, and can then be modified with the Lutron app.

Keypads

Keypad wall controls and Pico wireless controls are initially created in the Lutron Designer software, and programmed to activate scenes or perform other functions.

Timeclocks

Timeclocks are initially created in the Lutron Designer software or the Lutron app. From the Lutron app, some properties of the events may be edited (name of event, time/days of event, lighting intensity, CCT/Full Color for Ketra loads). Advanced settings such as occupancy settings are not available for editing in the app at this time.

Occupancy

Occupancy programming and select sensor settings are defined in the Lutron Designer software.

Load Shed

Load shed (demand response) is configured in the Lutron Designer software and can be tested by an FSE in the Lutron Designer terminal or using the Lutron app. It can then be activated via Athena Automated Demand Response Kit (P/N LUT-Q-OPNADR-CPN8064).

Daylighting

Daylighting settings are defined in the Lutron Designer software.

Device Replacement

Device replacement may be performed in the Lutron Designer software by a Lutron FSE.

System Expansion

System expansion (adding new devices/areas) may be performed in the Lutron Designer software by a Lutron FSE.

Shade Limits

Shade limit settings may be adjusted in the Lutron Designer software.

Trim Adjustment

Lighting device trim settings may be adjusted in the Lutron Designer software.

Emergency Lighting

Emergency lighting settings are defined in the Lutron Designer software.

Operations and Maintenance

Introduction

This manual includes the following information:
- Service contact list
- General safety instructions associated with the system and its components
- System overview
- Routine preventative maintenance requirements
- Warranty information

Specific descriptions of how the various system components were integrated into your specific location and how the overall system operates to control your building needs can be obtained by contacting our Technical Support department at 1.844.LUTRON1.

Thank you again for your purchase, and we hope that you enjoy your new Lutron system.

Service Contact List

For factory service or to order replacement parts, contact your Lutron office or using the contact information listed below:

World Headquarters
Lutron Electronics Co., Inc.
7200 Suter Road
Coopersburg, PA 18036-1299
U.S.A.
Toll-free: 1.844.LUTRON1 TEL: +1.610.282.3800 FAX: +1.610.282.1243 support@lutron.com

Safety Precautions

Safety information and/or precautions are included with each product and can also be found at www.lutron.com. Please refer to these manuals for safety related information and instructions associated with each of the system's components/devices.

Under no circumstances should Lutron supplied safety information and instructions supersede, or be considered a substitute for, your local organization's electrical safety procedures.

General Safety Precautions:
- Only personnel with the proper electrical safety training qualifications should be permitted to perform maintenance on Lutron control equipment.
- Only personnel with sufficient training on, and knowledge of, Lutron controls equipment should be permitted to perform maintenance on this equipment.
- Always de-energize, lockout, tagout, and verify de-energized, all electrical equipment prior to performing work on that equipment. Perform these activities only in accordance with your local site's safety procedures.
- Multiple circuits may feed some Lutron equipment. Locate and lock each supply breaker in the OFF position before performing maintenance work. Prior to performing maintenance on de-energized Lutron equipment, always test for the presence of voltage before beginning the maintenance work, even if you are certain that you have completely de-energized the equipment.
- If something unexpected occurs while performing maintenance work on Lutron equipment, stop work immediately, secure the work site, and seek help.
- Use only Lutron-approved replacement parts for easy mounting, installation, and relocation.

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Operations and Maintenance *(continued)*

Maintenance Requirements
Lutron products are designed to have minimal maintenance requirements as detailed below:

Hubs
Clean the front cover as needed.

Wall Controls
Clean the front surface with a soft towel moistened with a mild soap solution (non-ammonia).
Clean approximately every six months. Do not spray cleaning solution directly on any wall control.

Any liquid entering products with line (mains) voltage may reach components, cause personal injury, damage the equipment, and void the warranty.

Sensors
No maintenance required.

Load Controller Panels
Visually inspect installation periodically. Keep airflow clear of obstructions.

Battery-Powered Devices (Battery Replacement)
Replace batteries as needed with the correct type of battery. See the individual product installation sheet for battery specifications.

Warranty Information
Please see the warranty enclosed with the product, or visit:
http://www.lutron.com/en-US/ResourceLibrary/warranty/Lim_Warranty_starting_Oct2011.pdf

For additional information, please refer to the corresponding data sheet, located at www.lutron.com/athena

Features Not Yet Available
As of System Firmware version 1.10 / App version 7.8.

Coming Soon
1. Enhanced account access
    a. Multiple users will be able to access a single Athena system with individual myLutron accounts in a future update
    b. Sharing system access between myLutron accounts
    c. Managing system access (add / remove users)

2. Control of window shades in the app

3. Lighting Designer enhancements
    a. Raise / Lower
    b. Flash

4. DALI Type 8 support

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Customer Assistance

If you have questions concerning the installation or operation of this product, call Lutron Customer Assistance.

Please provide the exact model number when calling.
Model number can be found on the product packaging.
Example: MWP-T-OHW-SN-A

U.S.A., Canada, and the Caribbean: 1.844.LUTRON1 (588.7661)
Europe   +44.(0)20.7680.4481
Asia   +65.6220.4666
Mexico   +1.888.235.2910
Other countries call: +1.610.282.3800
Fax: +1.610.282.1243

Visit us on the web at www.lutron.com/support

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