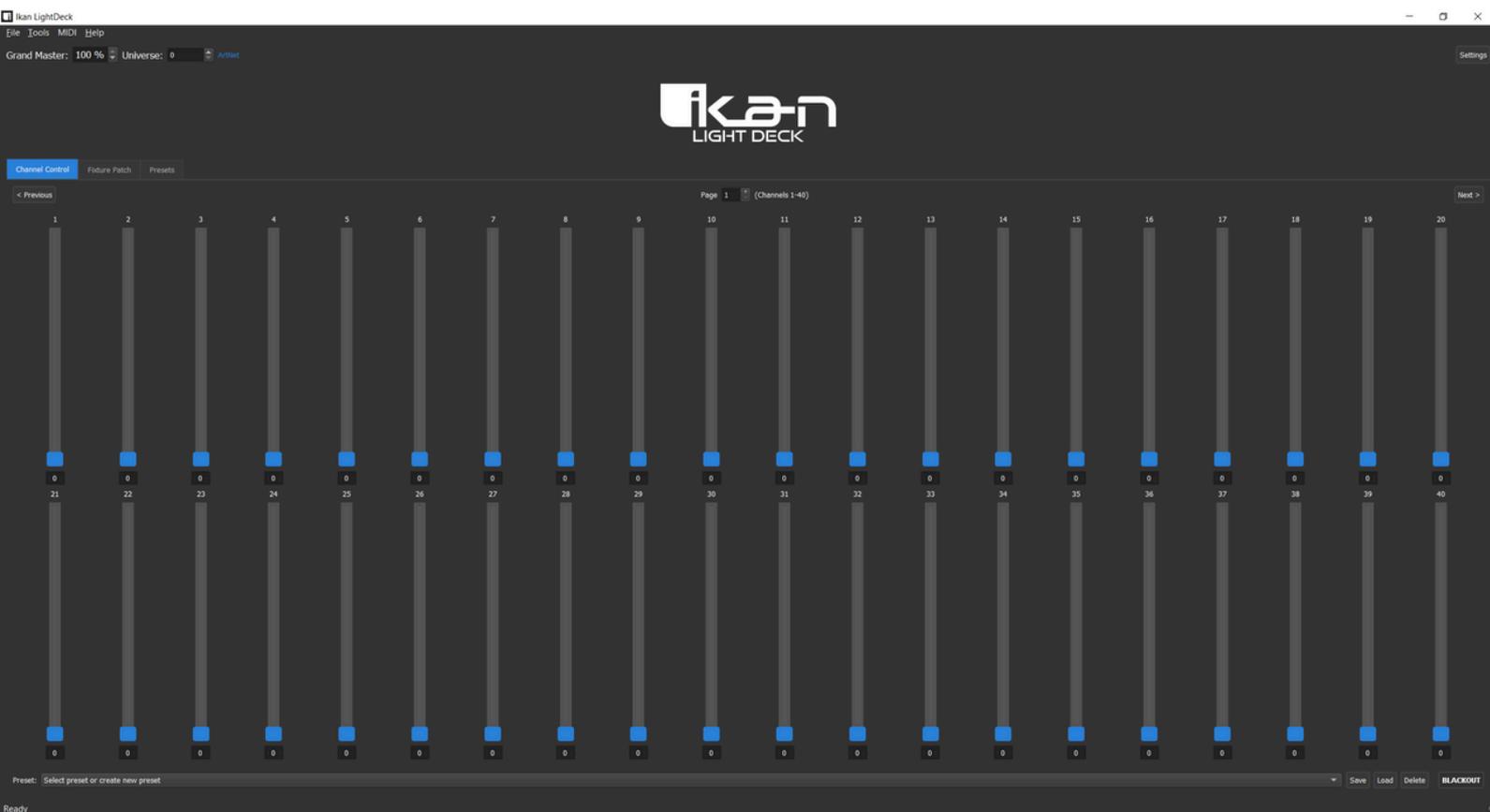


## Ikan DMX Lighting Controller

The Ikan LightDeck DMX Controller is a professional lighting control application designed for use with DMX-compatible lighting fixtures. It supports both ArtNet and sACN (E1.31) protocols for DMX data transmission, making it compatible with a wide range of lighting equipment and networks.



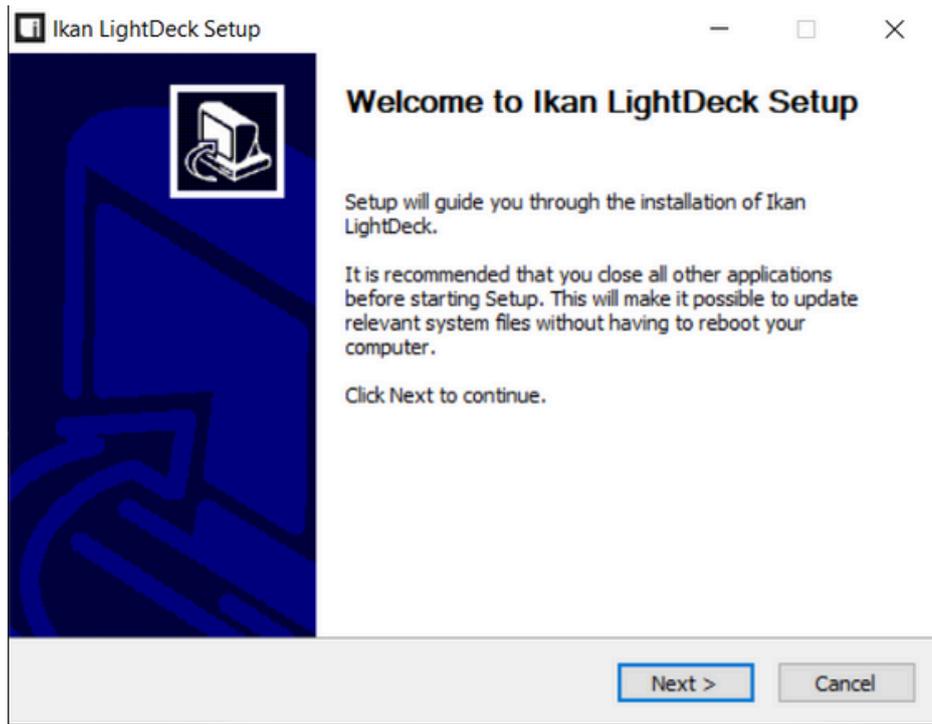
# Installation

## System Requirements

- Windows 10 or later (64-bit)
- 4GB RAM minimum (8GB recommended)
- 100MB free disk space
- Network interface for DMX output

1. Download the installer from [www.ikancorp.com](http://www.ikancorp.com)

2. Run the installer and follow the on-screen instructions



3. The application will be installed in the default location: C:\Program Files\Ikan\LightDeck

4. Launch the application from the Start Menu or desktop shortcut



The Ikan LightDeck DMX Controller provides a comprehensive set of features for professional lighting control:

#### Multiple DMX Universes

- Support for multiple DMX universes (0-32767 for ArtNet, 1-63999 for sACN)
- Independent state for each universe (channel values, fixture patches, presets)
- Quick universe switching with the universe selector

#### Dual Protocol Support

- ArtNet protocol support with broadcast or unicast options
- sACN (E1.31) protocol support with multicast addressing
- Lyra PoE auto protocol switching for compatible fixtures

#### Channel Control

- 512 DMX channels per universe with intuitive fader interface
- Faders arranged in pages with navigation controls
- Value display in raw DMX (0-255) or percentage (0-100%)
- Fader linking/grouping with custom colors
- Grand master control for overall intensity

#### Fixture Management

- Patching interface for assigning fixtures to DMX channels
- Custom fixture naming and organization

#### Preset System

- Save and recall lighting scenes
- Unlimited preset storage
- Quick access to frequently used configurations
- Preset organization and management

#### MIDI Integration

- MIDI controller support for hardware control
- Customizable MIDI mapping for faders and actions
- Support for various MIDI devices

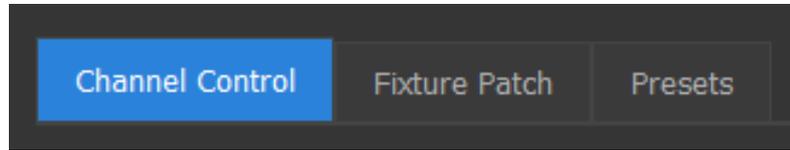
#### Stream Deck Integration

- Native integration with Elgato Stream Deck devices
- Control DMX faders, presets, and scenes directly from Stream Deck buttons
- Customizable actions and profiles for lighting control

# Using the Application

The application is organized into tabs for different functions:

1. **Channel Control** - Main DMX fader interface
2. **Fixture Patch** - Fixture management and patching
3. **Presets** - Preset management and organization



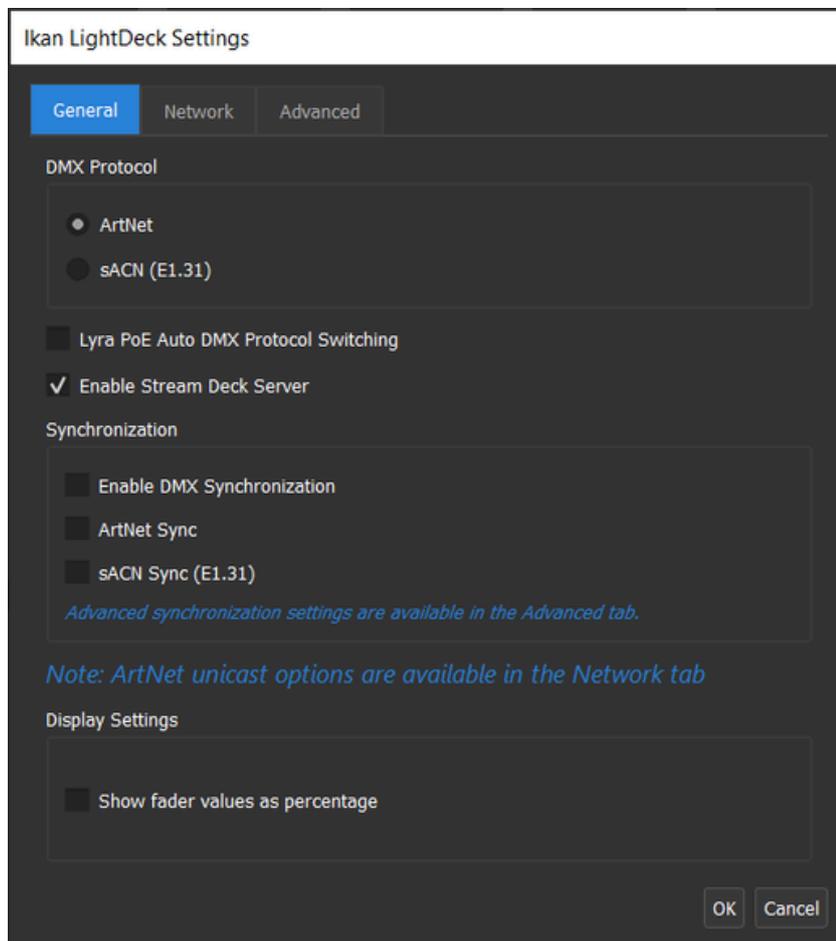
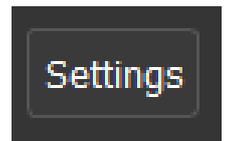
The toolbar at the top provides access to:

- Protocol indicator (ArtNet/sACN)
- Universe selector
- Grand Master control



## DMX Protocol Settings

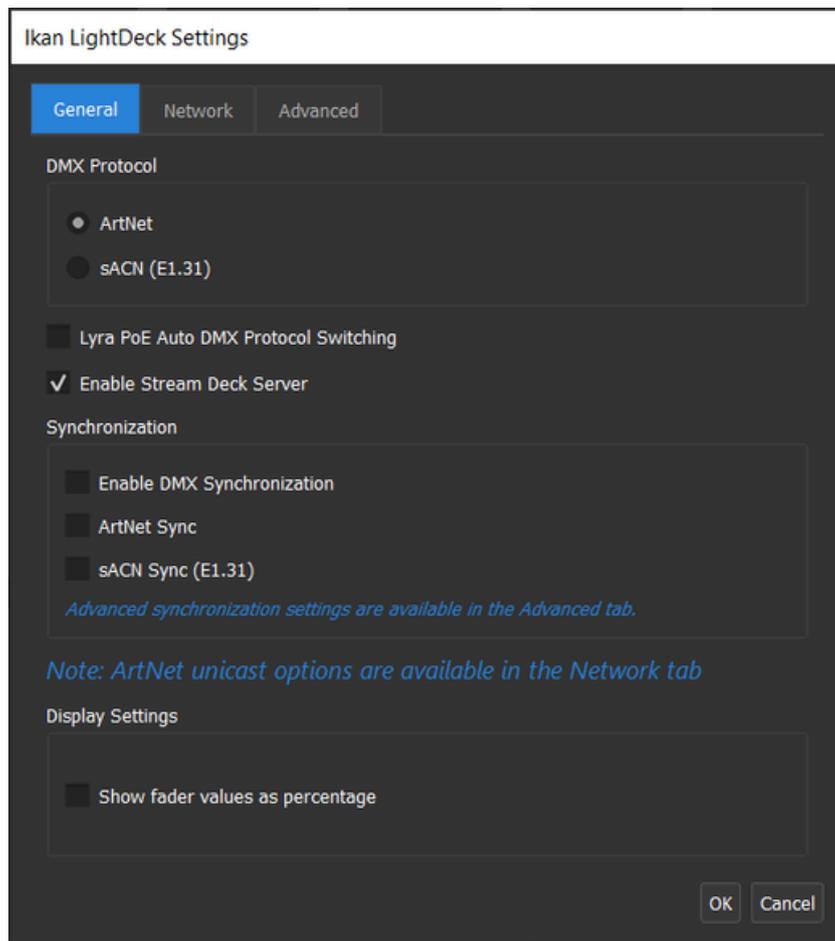
1. Click the settings button in the top right to open the Settings dialog



# DMX Protocol Settings cont.

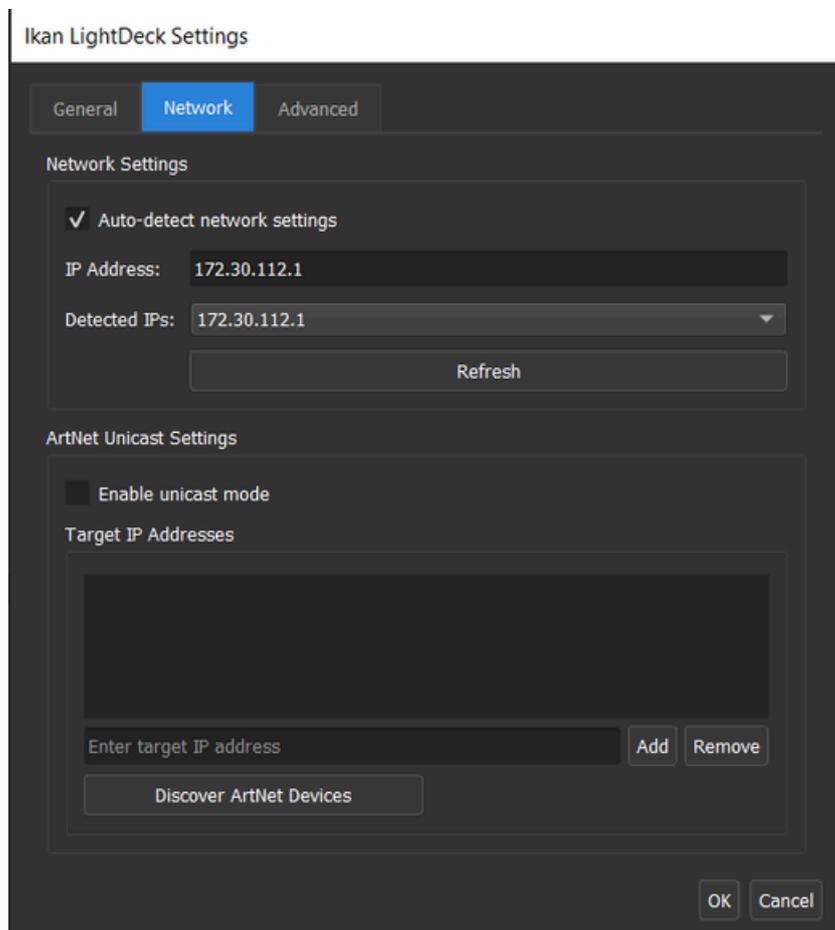
2. In the **General** tab:

- Select the desired protocol (ArtNet or sACN)
- Configure Lyra PoE auto protocol switching if needed
- Enable/disable DMX synchronization
- Choose which sync protocols to use (ArtNet/sACN)



3. In the **Network** tab:

- Enable/disable auto-detect for network interfaces
- Manually set IP address if auto-detect is disabled
- Configure ArtNet unicast settings if using ArtNet protocol
- Add target IP addresses for unicast mode



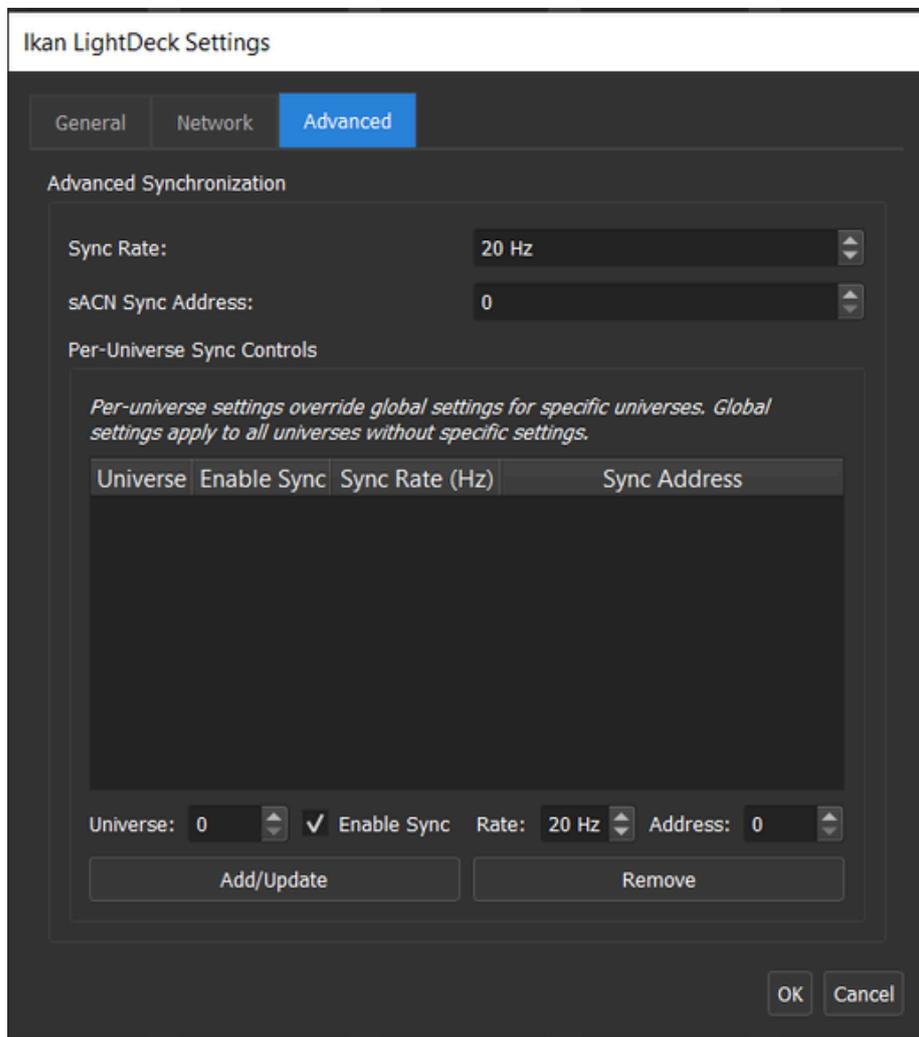
# DMX Protocol Settings cont.

4. In the **Advanced** tab:

- Configure global sync settings (sync address and rate)

- Set up per-universe sync settings

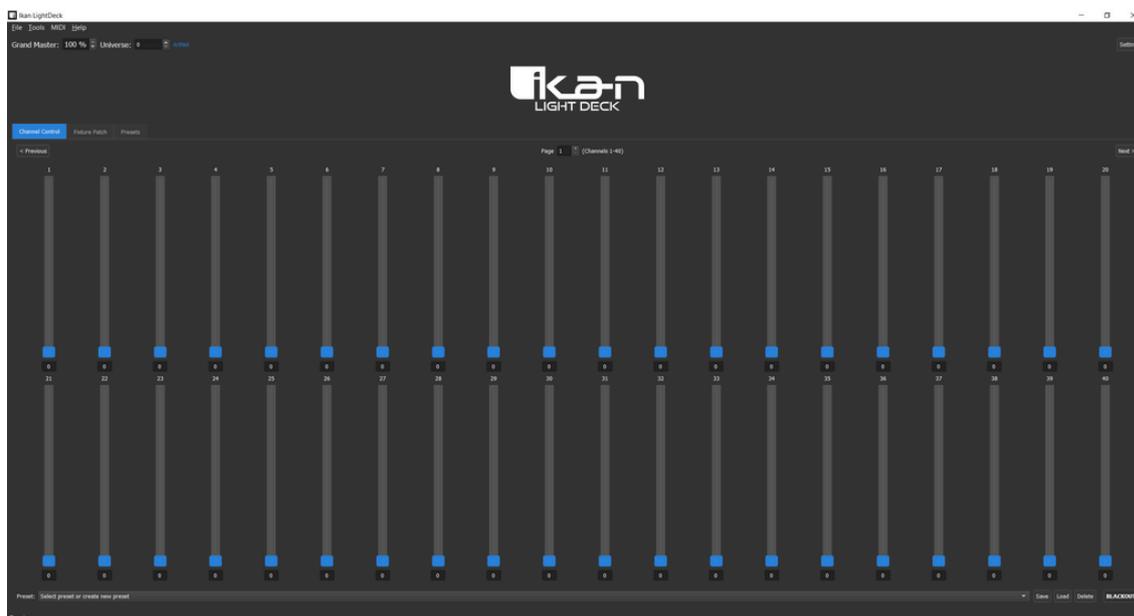
- Add, update, or remove universe-specific sync configurations



## Channel Control

1. Fader Operation:

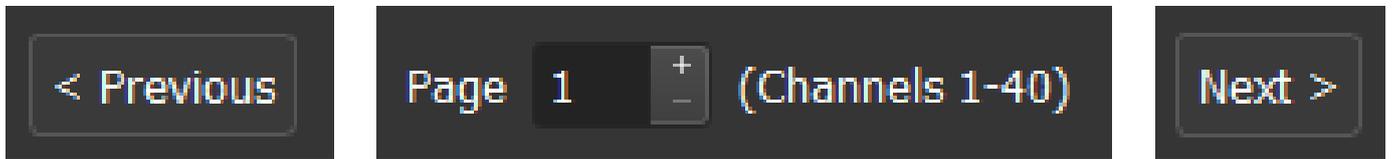
- Drag faders up/down to adjust DMX values (0-255)
- Click the value display to enter a specific value
- Right-click a fader to access additional options



# Channel Control cont.

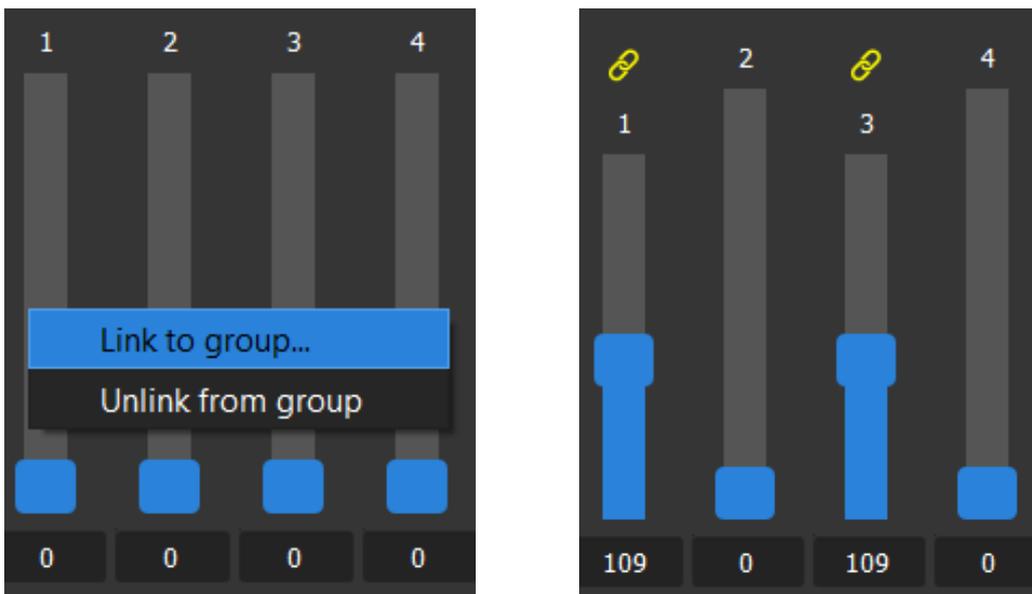
## 2. Navigation:

- Use the Previous/Next buttons to navigate between pages
- Each page displays 40 faders (20 per row)
- The current page and channel range is displayed between navigation buttons



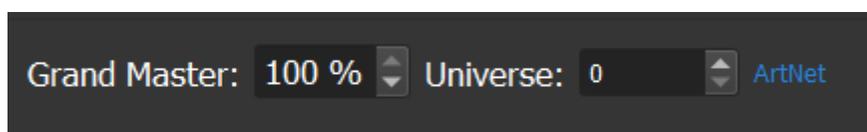
## 3. Fader Linking:

- Right-click a fader and select "Link to Group"
- Choose an existing group or create a new one
- Select a color for the group
- Linked faders will move together when any one is adjusted



## 4. Grand Master:

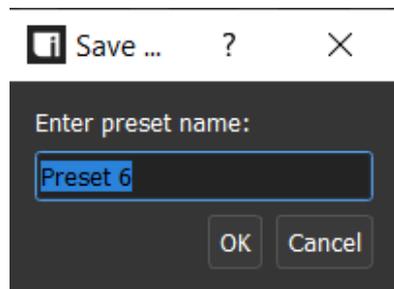
- Use the Grand Master fader on the right to control overall intensity
- All channel values are scaled by the Grand Master percentage



# Preset Management

## 1. Saving Presets:

- Set up your desired look using the faders
- Click the "Save Preset" button
- Enter a name for the preset
- Click OK to save

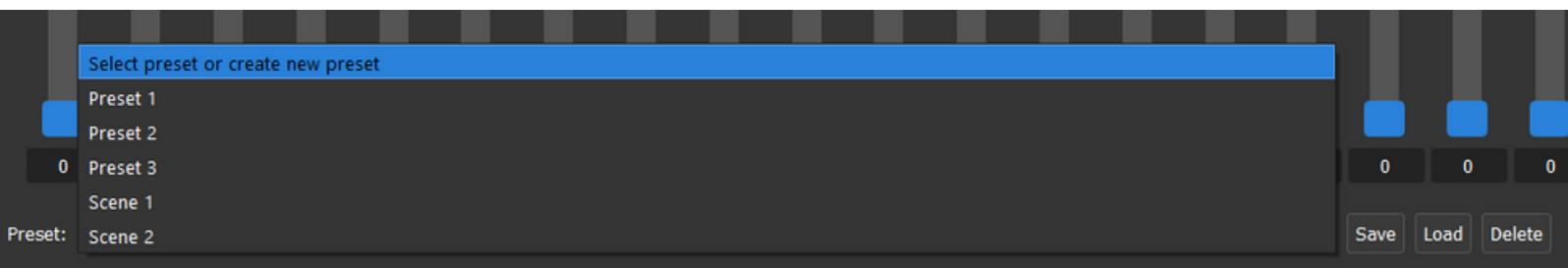


## 2. \*\*Loading Presets\*\*:

- Select a preset from the dropdown menu
- Click the "Load" button to apply the preset
- Alternatively, use the Presets tab for more options

![[Load Preset]](images/load\_preset.png)

\*Screenshot: Loading a preset from the dropdown\*

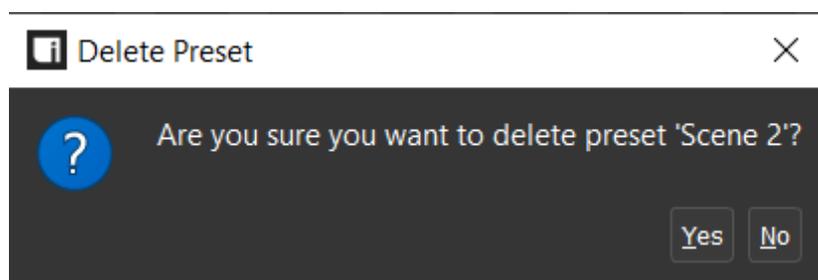


## 3. \*\*Deleting Presets\*\*:

- Select a preset from the dropdown menu
- Click the "Delete" button
- Confirm deletion when prompted

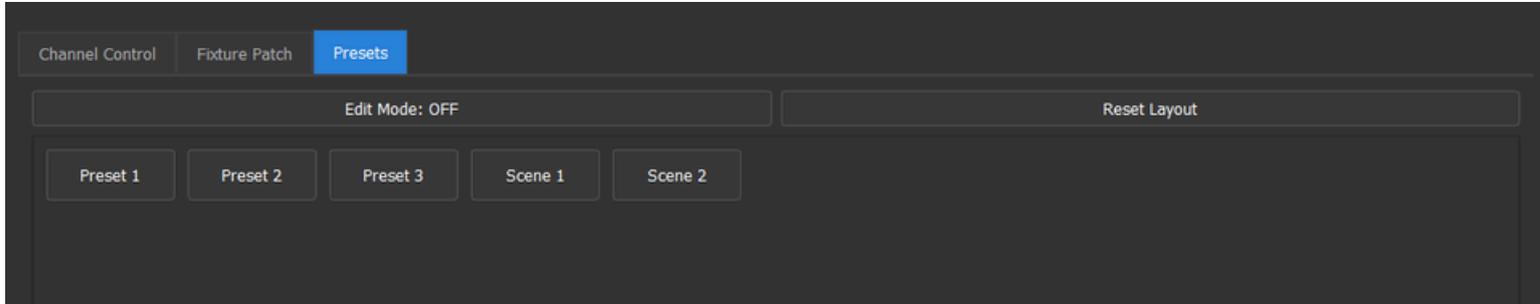
![[Delete Preset]](images/delete\_preset.png)

\*Screenshot: Delete preset confirmation dialog\*



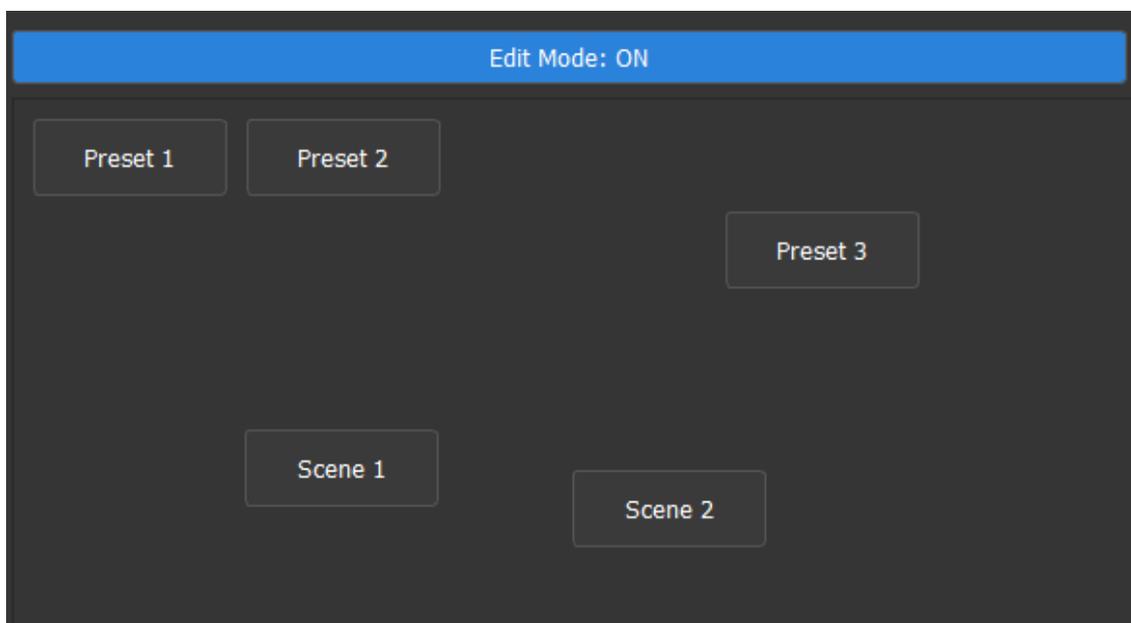
# Presets Tab

The Presets Tab provides a powerful interface for organizing, customizing, and quickly accessing your lighting scenes. In addition to loading and managing presets, you can tailor the appearance and layout of your preset buttons for fast, intuitive operation during live events or studio sessions.



## Editing Preset Layout

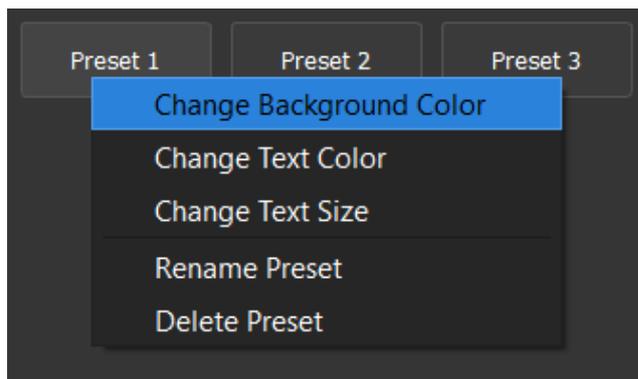
- Drag and Drop: Rearrange the order of your presets by dragging buttons to new positions within the grid. This allows you to group related scenes or arrange them for quick access.
- Grid Organization: The tab displays presets in a flexible grid, making it easy to see and access all your saved scenes at a glance.



# Presets Tab cont.

## Customizing Preset Buttons

- Change Button Color: Right-click a preset and select "Edit Color" to choose a custom background color for the button. Use colors to visually group or highlight important scenes.
- Edit Button Text: Right-click and choose "Edit Label" to change the text displayed on the button. Use clear, descriptive names for easy identification.
- Adjust Text Size: When editing a label, you can also set the text size to make critical presets stand out or fit longer names.



## Tips and Best Practices

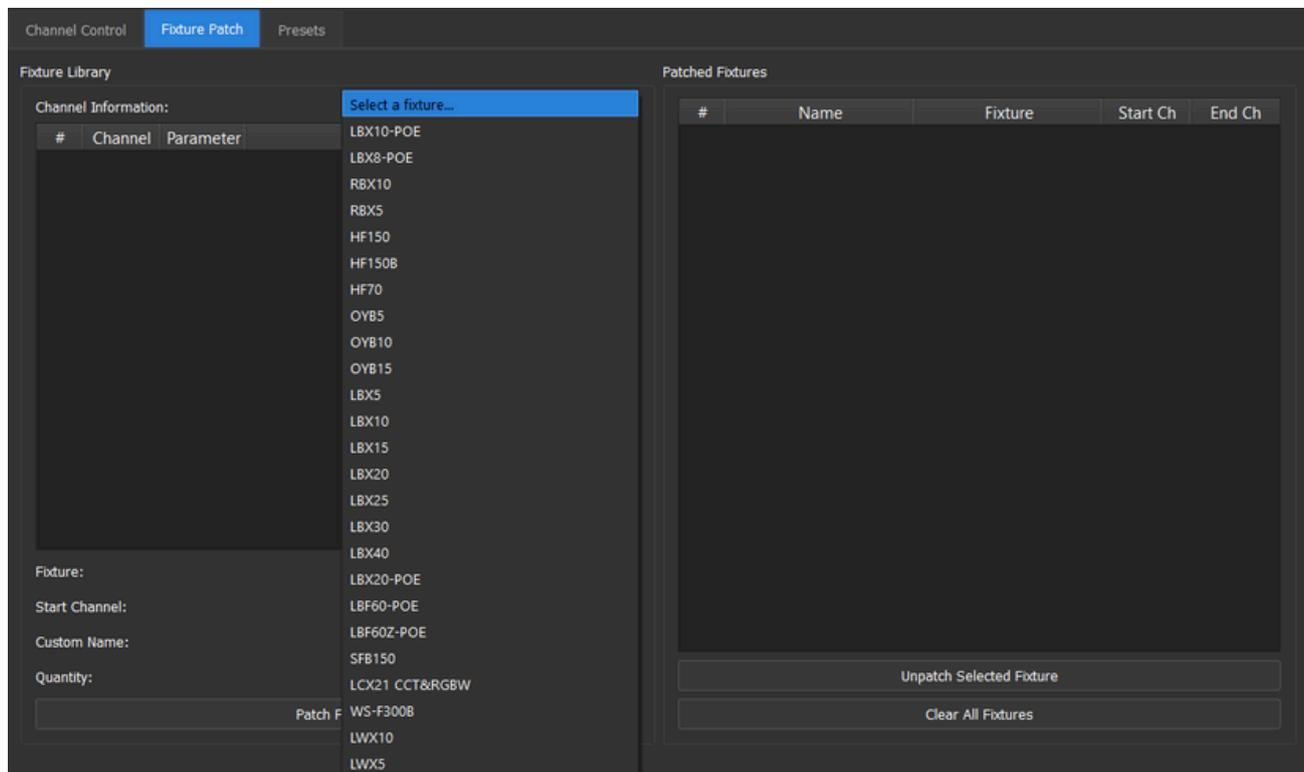
- Use colors and labels consistently to organize presets by scene type, location, or show segment.
- Place your most frequently used presets in the top rows or leftmost columns for fastest access.
- Take advantage of the grid layout to create logical groupings (e.g., "Intro", "Show", "Outro").



# Fixture Patching

## 1. Patching a Fixture:

- Select a fixture from the dropdown list
- View the fixture's channel configuration in the details table
- Set the starting DMX channel
- Enter a custom name for the fixture (optional)
- Click "Patch Fixture" to add it to the patch



## 2. Managing Patched Fixtures:

- View all patched fixtures in the table

- See fixture name, type, and channel range

- Select a fixture and click "Unpatch Selected" to remove it



# Fixture Patching cont.

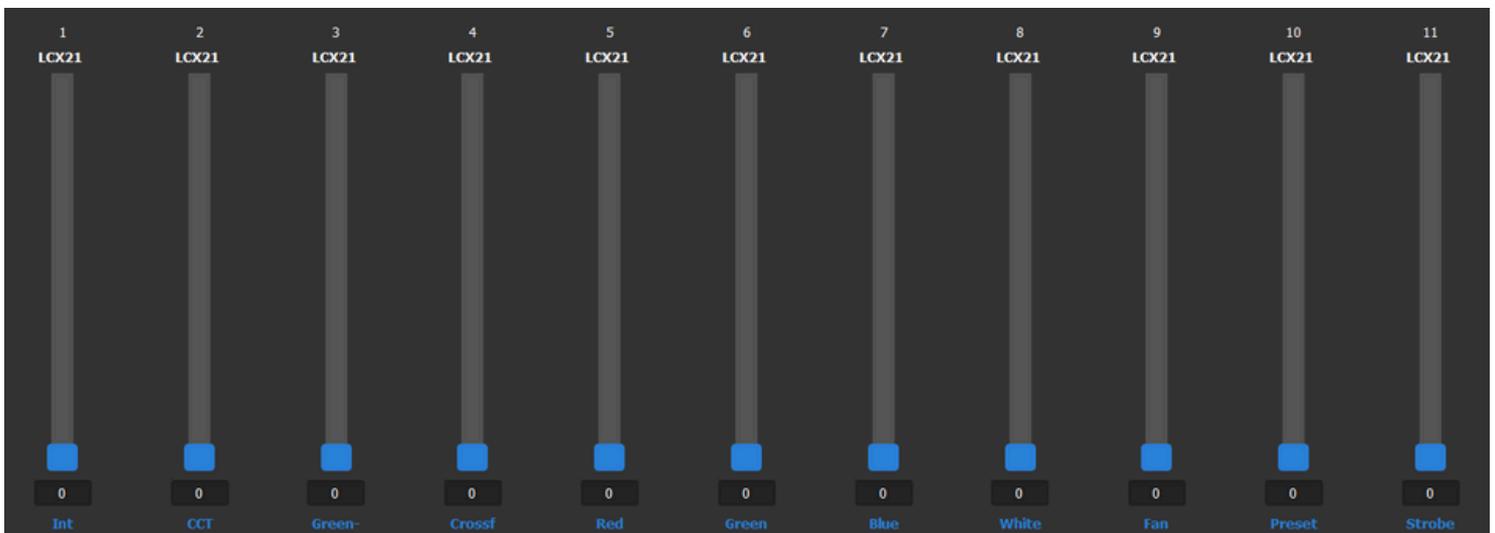
## 3. **Fixture-Aware Faders**:

- When fixtures are patched, faders will display fixture information
- Channel function labels will show what each fader controls
- Faders are automatically organized by fixture

#	Name	Fixture	Start Ch	End Ch
1	1	LCX21 CCT&RGBW	1	11

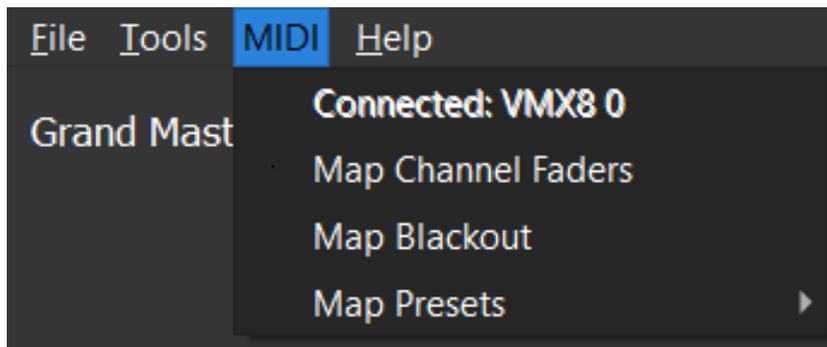
Fixture: LCX21 CCT&RGBW
Type: LCX21 CCT&RGBW
DMX Range: 1-11
Ch 1: Int - Controls Int
Ch 2: CCT - Controls CCT
Ch 3: Green-Magenta - Controls Green-Magenta
Ch 4: Crossfade - Controls Crossfade
Ch 5: Red - Controls Red
Ch 6: Green - Controls Green
Ch 7: Blue - Controls Blue
Ch 8: White - Controls White
Ch 9: Fan - Controls Fan
Ch 10: Preset - Controls Preset
Ch 11: Strobe - Controls Strobe



# MIDI Integration

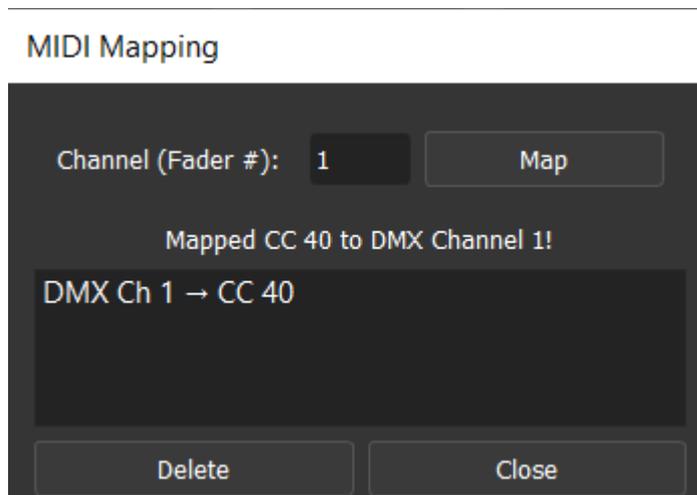
## 1. Enabling MIDI:

- Connect your MIDI controller before starting the application
- The application will automatically detect connected MIDI devices



## 2. Mapping MIDI Controls:

- Click on "MIDI" in the menu bar
- Select "Map Channel Faders"
- Enter channel (fader) number
- Press Map then move MIDI control
- MIDI auto-maps



## 3. Using MIDI Controls:

- Once mapped, your MIDI controller will directly control the mapped faders
- Changes made via MIDI are immediately sent to DMX output

# Stream Deck Integration

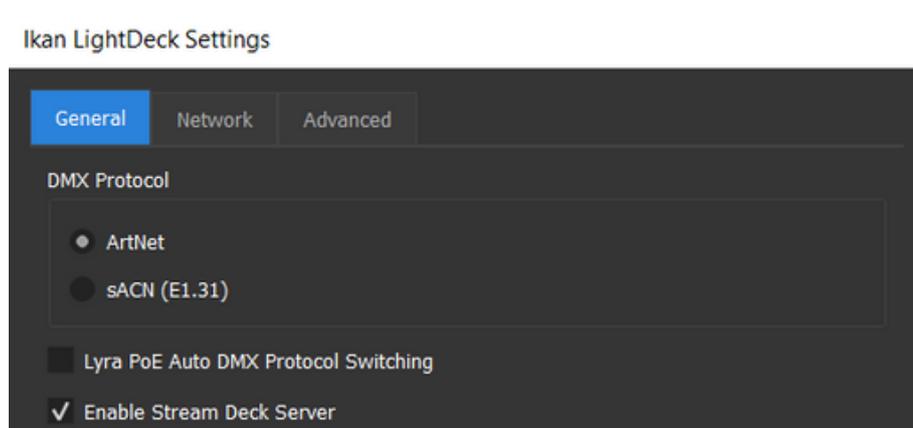
The Ikan LightDeck DMX Controller features native integration with Elgato Stream Deck devices, allowing you to control lighting directly from programmable Stream Deck buttons. This integration enables fast access to faders, presets, and scenes, making it ideal for live operation and studio environments.

## Requirements

- Elgato Stream Deck hardware (any model)
- Elgato Stream Deck software (v5.0 or later recommended)
- Ikan LightDeck Stream Deck plugin (downloadable from the Ikan website)

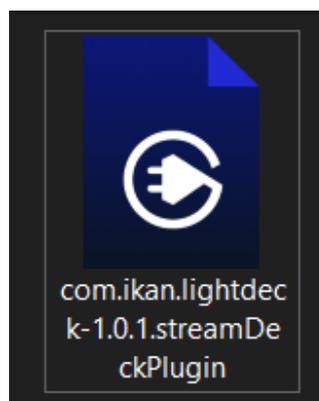
## Enabling Stream Deck Integration

1. Open the Settings dialog by clicking the settings button in the toolbar.
2. In the General tab, ensure the checkbox "Enable Stream Deck Server" is checked.
  - This option allows the application to communicate with the Stream Deck software.
  - For security, you may disable this if you do not use Stream Deck integration.
3. Click OK to apply settings. The Stream Deck server will start automatically if enabled.



## Installing the Plugin

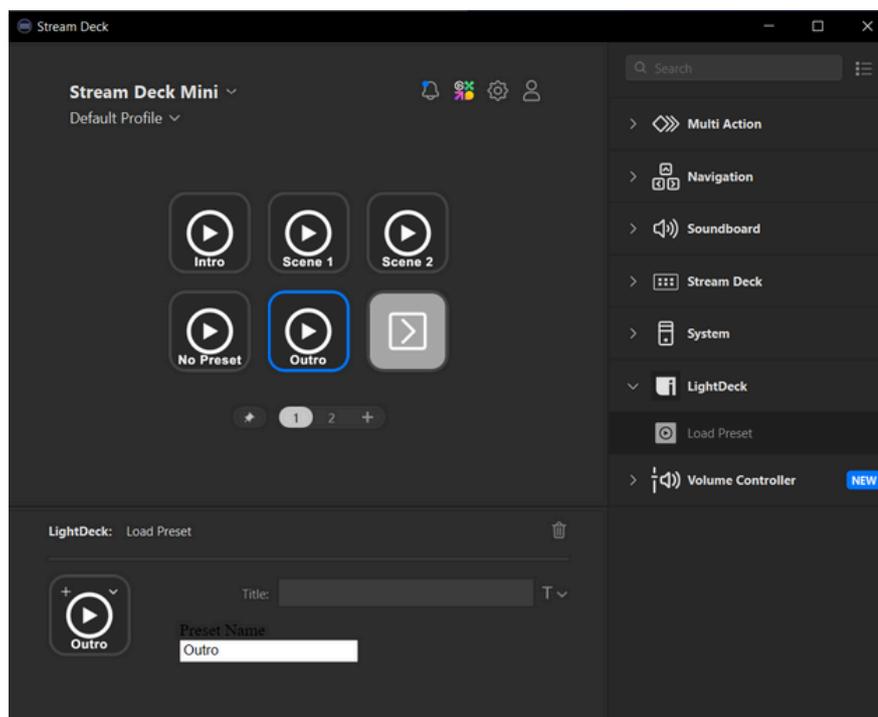
1. Locate the `com.ikan.lightdeck.streamdeckplugin`
2. Double-click the file to install the plugin into your Stream Deck software.
3. Restart the Stream Deck application



# Stream Deck Integration cont.

Using Stream Deck with LightDeck

- Open the Stream Deck software and add LightDeck actions to any button.
- Trigger presets or scenes



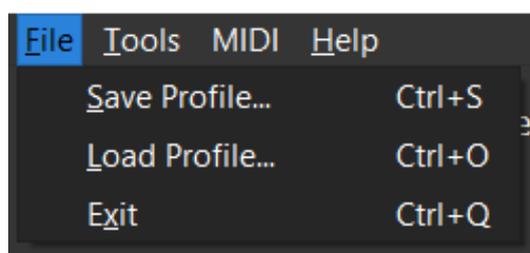
## Profile Management

Profiles allow you to save and load complete application states, including:

- All universe settings
- Fixture patches
- Fader positions
- Presets
- DMX protocol settings

To use profiles:

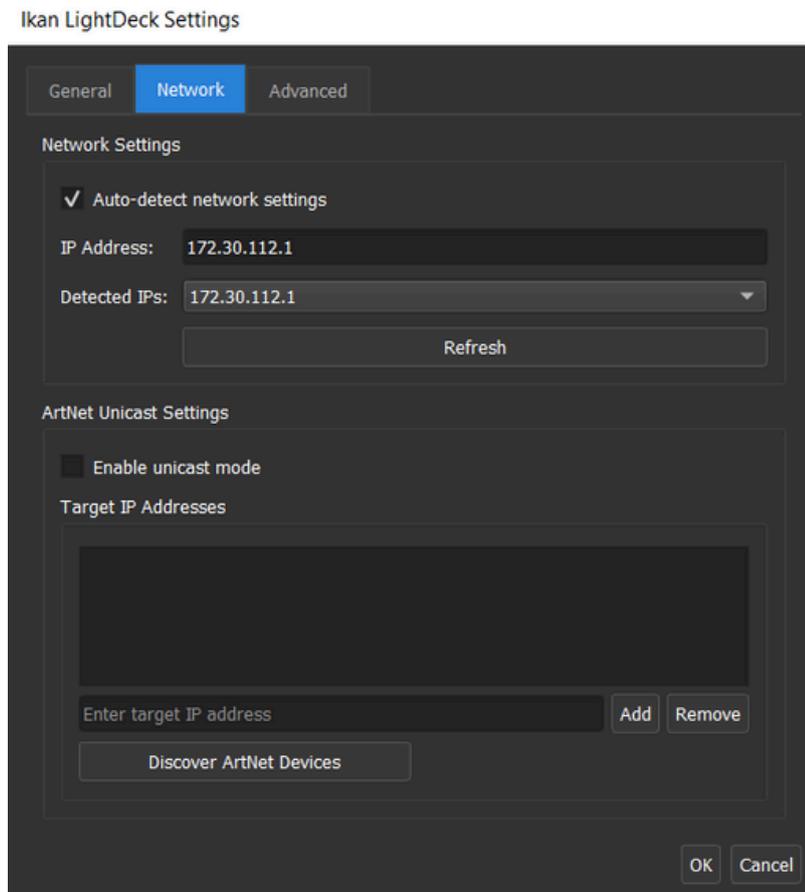
1. Set up your application as desired
2. Click File > Save Profile
3. Enter a name for the profile
4. To load a profile, click File > Load Profile and select the file



# Network Configuration

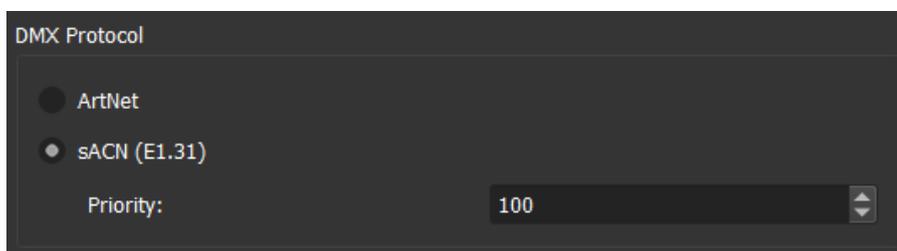
## 1. ArtNet Unicast:

- For targeted DMX transmission to specific devices
- Reduces network traffic in complex setups
- Add specific IP addresses in the Network settings tab



## 2. sACN Priority:

- Set the priority level for sACN packets (0-200)
- Higher priority ensures your controller takes precedence over others



## Technical Support

For technical assistance, please contact Ikan Products support:

- Email: [support@ikancorp.com](mailto:support@ikancorp.com)
- Phone: 713-272-8822
- Support Hours: Monday-Friday, 9:00 AM - 5:00 PM CST