### Manual

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# LightDeck

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

Ikan LightDeck Setup		-		×
	Welcome to Ikan Light	Deck	Setup	
	Setup will guide you through the insta LightDeck. It is recommended that you close all o before starting Setup. This will make it relevant system files without having to computer. Click Next to continue.	llation of I ther applic t possible t o reboot y	kan cations to update ⁄our	
	Nex	t >	Cance	I

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

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# 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





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

Grand Master: 100 % 🗘 Universe: 0



Ikan LightDeck Settings
General Network Advanced
DMX Protocol
ArtNet
SACN (E1.31)
Lyra PoE Auto DMX Protocol Switching
✓ Enable Stream Deck Server
Synchronization
Enable DMX Synchronization
ArtNet Sync
sACN Sync (E1.31)
Advanced synchronization settings are available in the Advanced tab.
Note: ArtNet unicast options are available in the Network tab
Display Settings
Show fader values as percentage
OK Cancel

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### 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)

kan LightDeck Settings		
General Network Advanced		
DMX Protocol		
ArtNet		
SACN (E1.31)		
Lyra PoE Auto DMX Protocol Switching		
✓ Enable Stream Deck Server		
Synchronization		
Enable DMX Synchronization		
ArtNet Sync		
sACN Sync (E1.31)		
Note: ArtNet unicast options are available in the Network tab		
Display Settings		
Show fader values as percentage		
	ок	Cancel

Ikan LightDeck Se	ettings	
General	etwork Advanced	
Network Settings	5	
✓ Auto-detec	ct network settings	
IP Address:	172.30.112.1	
Detected IPs:	172.30.112.1	
	Refresh	
ArtNet Unicast Se	ettings	
Enable uni	icast mode	
Target IP Addr	resses	
Enter target	t IP address Add Ren	nove
Disc	cover ArtNet Devices	
	0	K Cancel

3. In the \*\*Network\*\* tab:

- Enable/disable auto-detect for network interfaces

- Manually set IP address if autodetect is disabled

- Configure ArtNet unicast settings if using ArtNet protocol

- Add target IP addresses for unicast mode

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### 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 universespecific sync configurations

an LightDeck Settings		
General Network Advanced		
Advanced Synchronization		
Sync Rate:	20 Hz	\$
sACN Sync Address:	0	٢
Per-Universe Sync Controls		
Per-universe settings override global sett settings apply to all universes without spe	tings for specific universes. Global ecific settings.	
Universe Enable Sync Sync Rate (H	Hz) Sync Address	
Universe: 0 🔷 🗸 Enable Sync	Rate: 20 Hz 🗢 Address: 0	
Add/Update	Remove	
	ОК	Cancel

# 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



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# 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



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# 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\*

		Select preset or create new preset				
		Preset 1				
		Preset 2				
	0	Preset 3	0	0		0
		Scene 1				
Pres	et:	Scene 2	Save	Load	Delete	

- 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\*



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### 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.

Channel Control Fixture Patch	Presets	
	Edit Mode: OFF	Reset Layout
Preset 1 Preset 2	Preset 3 Scene 1 Scene 2	

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.

		Edit Mode: ON	
Preset 1	Preset 2		Preset 3
	Scene 1	Scene 2	

### 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").



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# **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

Channel Control Fixture Patch Presets						
Fixture Library		Patched Fixtures				
Channel Information:	Select a fixture	#	Name	Fixture	Start Ch	End Ch
# Channel Parameter	LBX10-POE				Start Ch	Lind Cit
	LBX8-POE					
	RBX10					
	RBX5					
	HF150					
	HF150B					
	HF70					
	OYB5					
	OYB10					
	OYB15					
	LBX5					
	LBX10					
	LBX15					
	LBX20					
	LBX25					
	LBX30					
	LBX40					
Fixture:	LBX20-POE					
Start Channel:	LBF60-POE					
Custom Name:	LBF60Z-POE					
	SFB150					
Quantity:	LCX21 CCT&RGBW		Un	patch Selected Fixture		
Patch F	WS-F300B			Clear All Fixtures		
	LWX10					
	LWX5					

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

Channel Information:						
	#	Channel	Parameter	neter Description		
1	1	1	Int	Controls Int		
2	2	2	ССТ	Controls CCT		
3	3	3	Green-Magenta	Controls Green-Magenta		
4	4	4	Crossfade	Controls Crossfade		
5	5	5	Red	Controls Red		
6	6	6	Green	Controls Green		
7	7	7	Blue	Controls Blue		
8	8	8	White	Controls White		
9	9	9	Fan	Controls Fan		
10	) 10	10	Preset	Controls Preset		
11	11	11	Strobe	Controls Strobe		
Fix	ture:			LCX21 CCT&RGBW		
Sta	Start Channel: 1		1			
Cu	Custom Name: LCX21 CCT&RGBW		LCX21 CCT&RGBW			
Qu	Quantity: 1			1		
	Patch Fixture					

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# 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





### **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

MIDI Mapping			
Channel (Fader #):	1	Мар	
Mapped CC	40 to DMX	Channel 1!	
DMX Ch 1 $\rightarrow$ CC 40			
Delete		Close	

#### 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.

Ikan LightDeck Settings			
General Network Advanced			
DMX Protocol			
ArtNet			
SACN (E1.31)			
Lyra PoE Auto DMX Protocol Switching			
✓ Enable Stream Deck Server			

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



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# 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

ools	MIDI	<u>H</u> elp		
ve Pro	ofile		Ctrl+S	21
<u>L</u> oad Profile			Ctrl+O	51
E <u>x</u> it			Ctrl+Q	
	ools ve Pro ad Pro it	ools MIDI ve Profile ad Profile it	ools MIDI <u>H</u> elp ve Profile ad Profile it	ools MIDI Help   ve Profile Ctrl+S   ad Profile Ctrl+O   it Ctrl+Q

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# **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

Ikan LightDeck	Settings	
General	Network Advanced	
Network Settin	igs	
✔ Auto-det	tect network settings	
IP Address:	172.30.112.1	
Detected IPs	:: 172.30.112.1	
	Refresh	
ArtNet Unicast	Settings	
Enable u	inicast mode	
Target IP Ad	Idresses	
Enter targ	get IP address Add Remove	
D	iscover ArtNet Devices	
	OK Cancel	]

2. sACN Priority:

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

DMX Protocol		
<ul><li>ArtNet</li><li>sACN (E1.31)</li></ul>		
Priority:	100	\$

Technical Support

For technical assistance, please contact Ikan Products support:

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