

HYPERCUBE

SE

USER'S MANUAL



DON'T PANIC!

This is your personal guide to your new hyper-dimensional portal device

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SAFETY AND CARE



WARNING – Fire Hazard

Keep the HyperCube out of direct sunlight. In rare cases, the mirrors can focus sunlight into a point that could cause burns or risk of fire.



WARNING – Keep Dry

Keep the HyperCube, and its controller and power supply away from excessive moisture. Water can damage the electronics and cause LED malfunction. Prolonged exposure can lower the lifetime of the LEDs. Our warranty does not cover water damage.



WARNING – Electric Shock Risk

Do not use or operate the device when wet for risk of electric shock.

Hyper-Care



The HyperCube is an art piece; while it is sturdy, it is not meant to be handled excessively. **Be extremely careful with the mirrors.** When cleaning the mirror panels, use only a microfiber cloth and, if needed, lightly soapy water. Clean very gently, without applying much pressure, to prevent damage to the mirrored panels.

CE Registration: **HK2506203256E**



GETTING STARTED

What's in the box?!

- ❖ HyperCube
- ❖ Control Box
- ❖ Power Supply

Powering up

1. Plug the power supply into an outlet (accepts outlet voltage from 100-240V) and plug the USB cord into the power supply. You may also use any standard cell phone charging block (5V) with your own USB-C cord.



2. Connect the HyperCube cable to the control box. Note the orientation. To unplug, press the tab underneath.



3. Plug the USB-C connector into the front of the control box. The button on the control box will turn blue.



4. Let there be light!

OPERATION

The HyperCube features 3 modes:

- ❖ **Kaleidoscopic:** dynamic, fast, and colorful patterns. This is the default mode (40 patterns)
- ❖ **Meditative:** calm, classy and slowed down patterns to help you relax (24 patterns)
- ❖ **Sound Reactive:** dance and entrance, with specially designed patterns that respond to the beat. A microphone is located inside the control box (31 patterns)

Each **mode** is essentially a playlist of unique patterns. By default, a pattern plays for 60 seconds before switching. New colors are randomly generated every 10 seconds, for near-infinite variety! This behavior can be fully customized in the app. The patterns and modes can be controlled with the button on the control box.

The Button

× 1: Next pattern

× 2: Change mode:

↓ Kaleidoscopic
Meditative
Sound Reactive

Hold (2s): Turn off

Hold (10s): Reset
WiFi credentials



THE HYPERSPACE APP



HYPERSPACE LIGHTING

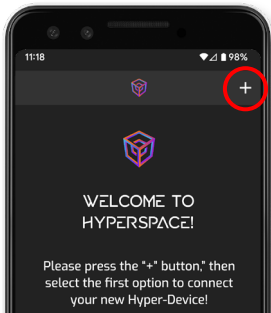
Download the “**Hyperspace Lighting**” app to fully control and customize your HyperCube!



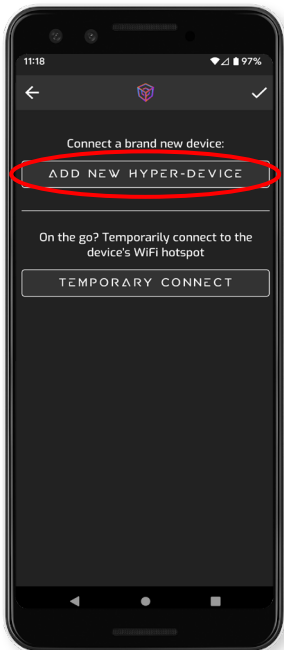
Setup

The setup process will connect your HyperCube to your home WiFi network for convenient smartphone control.
(**NOTE:** the HyperCube only connects to 2.4 GHz networks)

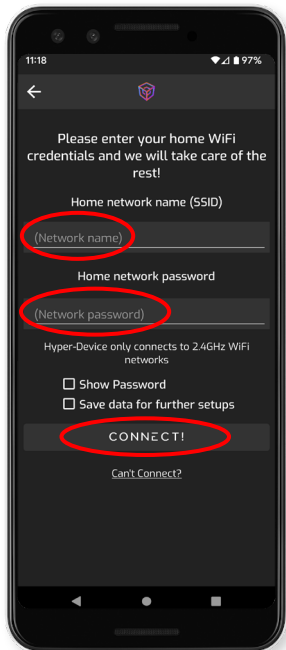
1. Make sure the cube is not in sound reactive mode.
2. Open the app and press the “+” icon in the top right corner of the main menu



3. Press “Add New Hyper-Device”

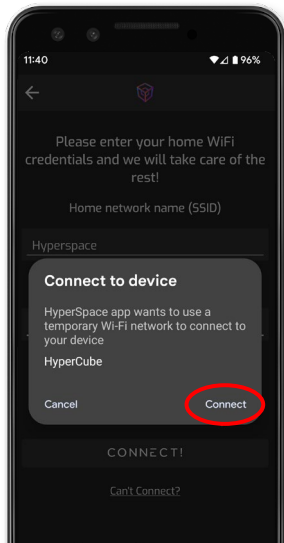


4. Enter your home WiFi credentials and press “Connect!”. All fields are *case sensitive*. **Your phone must be connected to this network**

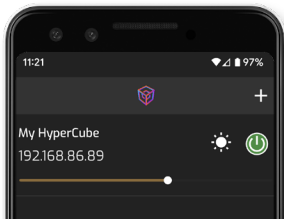


Note: if the connection fails, press “Can’t Connect?” at the bottom of the screen and follow the instructions.

5. Accept any permissions and allow your phone to connect to the HyperCube WiFi network channel
6. Wait for the connection process to finish. This could take up to one minute
7. You may go back at any time to re-enter your WiFi credentials or restart the process. Multiple attempts may help in case of failure

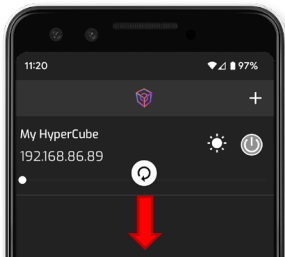


8. You're done - press "My HyperCube" to pilot the controls!



Trouble connecting?

9. **Refresh:** If the connection process finished but the cube isn't showing up, refresh the device list by swiping down anywhere on the screen



10. **Power the cube off and on** (fully unplug), then **reset the cube's WiFi** by holding the button on the control box for 10s (until the LEDs in the cube flash red then green).
11. Repeat steps 1-7. OR, in step 4 press "Can't Connect?" at the bottom of the screen and follow the instructions.
12. Alternatively: Press "Temporary Connect" on the "+" menu, "Config" in the top right of the device UI, then "WiFi Setup" at the top of the screen. Enter your WiFi credentials, then go back to the home screen of the app and refresh (swipe down).

Connection Tips

- Ensure the cube is near your router for initial connection. It can be moved further after setup.
- Ensure you are connecting to a 2.4 GHz WiFi network, and your phone is already connected to this WiFi.
- Double check your WiFi name and password (*both are case sensitive*).
- Try again, sometimes multiple attempts are needed. Reset the cube's WiFi and power cycle after each attempt.

Lost Connection?

If you've successfully connected before but lost connection:

1. Power cycle by fully unplugging it then plugging it back in.
2. Restart the app and refresh the device list by swiping down. Refresh a few times and wait up to a minute.
3. If the device still does not connect, try steps 1-2 again, or reset the device and reconnect, by following the steps on the previous page (hold the button for 10s to reset WiFi).

Not at home?

If you're out and about without a WiFi connection, you can still connect to the HyperCube's internal WiFi hotspot. Press the "+" icon on the main menu and select "Temporary Connect" to access the controls! This will leave you connected to the HyperCube WiFi channel.

Control via PC, without the app

If you don't have an Android/iOS smart phone, you can still connect to and control your HyperCube! All you need is an internet browser on your PC or phone. If you have already connected the cube with your phone, simply skip to step 5.

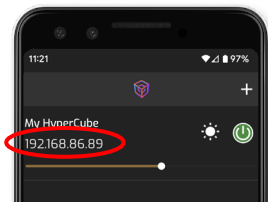
1. On your phone, connect to the "HyperCube" WiFi network. Password: hyperspace
2. A new window will appear (or a prompt will appear asking you to log in. Press this). Enter your home WiFi network information. This procedure will connect the HyperCube to your home network.
3. Access your router settings. Typically, this can be done by entering the router IP address in a browser. Most use an address of 192.168.1.1, but you may need to confirm with your router's manual.

4. Find the list of connected devices and copy the HyperCube's IP address (also in-app, after setup).
5. Enter the HyperCube IP address in any browser and you will be taken to the controls!

Connecting via E1.31

The HyperCube also supports pixel mapping via sACN/E1.31 protocol. Various third-party software can be used to control the LEDs, such as xLights and MadMapper. This feature is experimental, not guaranteed to work smoothly, and is recommended only for users with pixel mapping experience.

The setup process differs for all software. In general, you will need your HyperCube's IP address, shown on the main device list page:



You will also need the following pixel information:

HyperCube¹⁰: 288 total pixels (WS8211/WS2812)

HyperCube¹⁵: 480 total pixels (WS8211/WS2812)

The total pixels are split across 2 separate LED tracks, each with half the total pixels (i.e. 2 universes with 432/840 channels each for HC¹⁰/HC¹⁵).

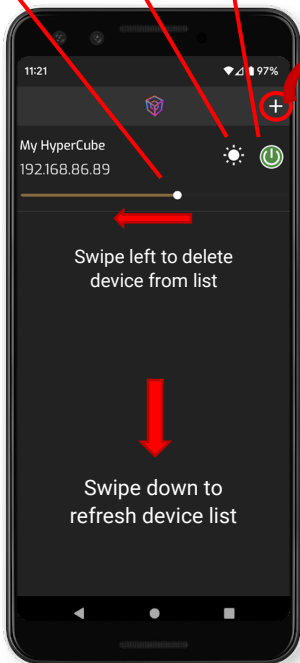
Usage

Device List Menu

Brightness slider

Flash LEDs to identify device

Power toggle



Connect a new Hyper-Device to your home WiFi network



Connect directly to the cube's WiFi access point. This is a temporary connection method, you will be unable to access the internet. Use the option above for standard at-home connections.

Note: the device list automatically refreshes every 15s. After a device has been connected, it will appear here on any phone with the Hyperspace app.

Patterns Menu (default)

Nightlight: dims brightness over 60 minutes

Sync with other cubes

Sync brightness to music (makes any pattern sound reactive)

Toggle power

Settings

Mode selection – automatically cycle through playlist of patterns

Next & previous pattern

Stay on current pattern in the mode playlist

Choose individual pattern (from any mode)

Pattern menu

5:23 59%

KALEIDOSCOPIC

ACHROMATIC SHIFT

ATOMIC GENERATOR

CHROMATIC PRECESSION

CHROMATIC WAVE

CORE COLLAPSE

COSMIC RAYS

DAZZLE BLASTER

DIELECTRIC BREAKDOWN

DIVERGENCE

ENTROPY ENGINE

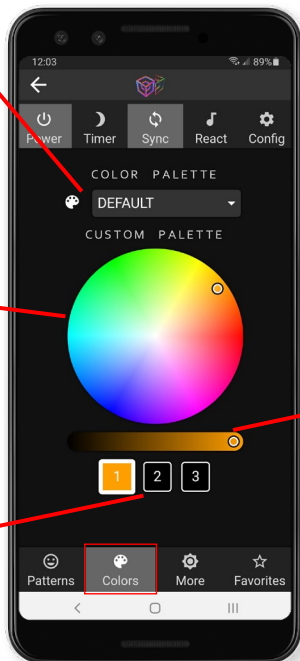
Colors Menu

Choose from pre-defined color palettes

Customize your own colors

Adjust brightness of selected color

Choose up to 3 unique colors



More Controls Menu

Adjust overall brightness

Adjust pattern intensity (unique effects on each pattern)

Adjust pattern speed

Pause or freeze animation

Symmetry menu

Change the symmetry of motion each pattern displays

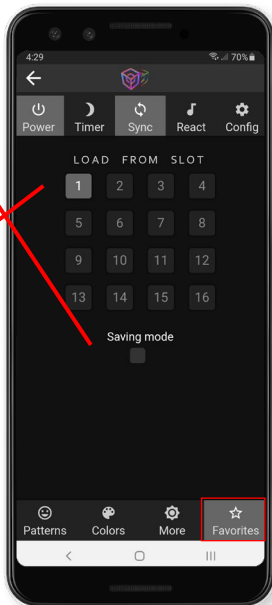
The image shows a smartphone screen with the 'More Controls' menu. The menu includes sliders for BRIGHTNESS, SPEED, INTENSITY, and SYMMETRY, and a button labeled FREEZE. A red box highlights the 'More' icon in the bottom navigation bar. An inset shows the 'Symmetry menu' with options: DEFAULT, NO SYMMETRY, CUBIC, HELICAL, TRIGONAL, MIRROR, VERTEX, INVERSION, and CYCLIC.

Favorites Menu

Save your favorite patterns for easy playback! All color, speed, intensity, and symmetry customizations are also saved.

To save:

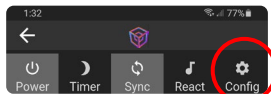
1. Press "saving mode"
2. Press a slot number to save to that slot



To load:

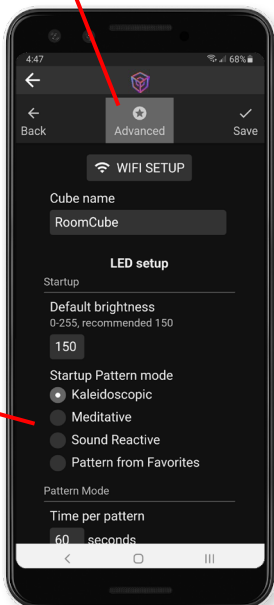
Press a highlighted slot number with a previously saved pattern

Settings Menu

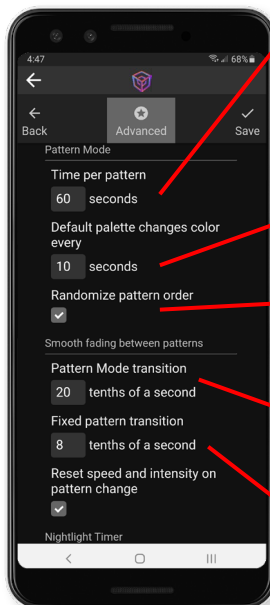


Toggle advanced settings

Play time before pattern transition within each mode



Startup settings



Random color change time

Patterns play in fixed or random order

Blend time between auto-transitions

Blend time between button-press transitions

TROUBLESHOOTING

Trouble connecting to the app?

Try the alternative connection process here.

1. Reset the cube's WiFi by holding the button on the control box for 10s (until the LEDs in the cube flash red then green).
2. Connect to the "HyperCube" WiFi network with your phone. If prompted, stay connected without internet access.
3. Open a web browser and navigate to hyperspace.local
4. Press "config" in the top right, then "WiFi Setup". Enter your home WiFi credentials (case sensitive) and save.
5. Connect back to your home WiFi, open the Hyperspace app, then swipe down to refresh the device list. The list refreshes every 15s, you may need to wait or manually refresh multiple times.
6. Your HyperCube should now appear on the device list and be connected!
7. If all else fails, the WiFi connection can be reset by holding the button on the control box for 10 seconds. After, re-do the initial setup procedure ("+" → "Add New HyperDevice → Connect!).

Want to connect an additional device to the cube?

You can control one HyperCube from multiple devices. If you have already gone through the initial setup process once, on your new device simply swipe down on the main device list page to refresh. You may need to refresh multiple times, and wait up 1-2 minutes. All hyper-devices connected to the WiFi network will be added after some time.

Sound reactivity issues?

The HyperCube automatically adjusts to a wide range of volume levels, but still requires a moderate volume and/or distance-to-source to respond best. The microphone is located in the control box; for optimal performance, keep the sound source 3 – 10 ft away.

- ❖ If the HyperCube appears too sensitive to ambient noise (patterns trigger with no sound) or won't respond, the microphone sensitivity can be adjusted. Go to settings > sound reactivity and adjust the sensitivity value. Higher values will allow the mic to pick up softer sounds, but may trigger the lights on ambient/electrical noise.

Note that if music volume is extremely loud (and close to the control box), the sound response may be poor.

WARRANTY

The Hyperspace Lighting Company, LLC offers a 1-year limited warranty on each HyperCube. We guarantee that each product purchased will arrive in working condition, without damage, and will be free from defects in electrical operation for a period of one (1) year from the date of delivery. Please contact us at the email address below if you have any issues, we're here to help!

The full detailed warranty description can be found online at <https://hyperspacelight.com/pages/1-year-limited-warranty>

CONTACT

Questions, comments, concerns? Lost in hyperspace and can't find your way out? Email us at: hello@hyperspacelight.com.

TECH SPECS

	HyperCube10-SE	HyperCube15-SE
Dimensions (per side)	10.15" (258 mm)	15.16" (385 mm)
Total LEDs	216	336
LEDs Per Edge	18	28
Max Power Draw	10W (2A)	15W (3A)
Avg Power Draw	5W (1A)	7.5W (1.5A)
Weight	3.8 lb (1.7 kg)	8.2 lb (3.7 kg)
Colors	~16 million	
LED Rating	50,000+ hours	
Windows	Scratch-resistant mirrored acrylic	
Frame	ABS	
Wifi Connectivity	2.4 GHz	
System Voltage	5V	
Standby Power Draw	<1W	
Power Adapter	Accepts 100 – 240V, 50/60 Hz	
Flux Capacitor Rating	3.14 Jigawatts	

CE Registration: **HK2506203256E**



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- - Reorient or relocate the receiving antenna.
- - Increase the separation between the equipment and receiver.
- - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- - Consult the dealer or an experienced radio/TV technician for help.ct.

This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.