



THE LIGHT BULB, REINVENTED



User Guide

LIFX GLS Gen1

www.lifx.co
www.havells-sylvania.com

V1 – May 2014

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System Requirements

To run LIFX it is recommended that you have:

- A device running IOS 6.0+ or Android 4.0+
To verify this please check > Settings> About Device
- A Wi-Fi connection
(WiFi router must be standard 802.11b,g or n compliant)
- WPA2 security (highly recommended)
- No firewall on the router or device
- Place LIFX bulbs in an open area where there are few obstructions such as large furniture or walls
- Place away from metallic surfaces
- Avoid placing the bulb behind furniture or inside cabinets
- Avoid enclosing the bulbs inside metal cabinets
- Place at least 8 meters from microwave ovens, cordless phones or other sources of interference

Getting Started

LIFX® is a smart light bulb that provides you with total control of your lighting.

It is a Wi-Fi enabled, multi-colour, energy efficient LED light bulb that you control with your iOS or Android smartphone or tablet. With the LIFX ® app you can switch bulbs on and off, dim, adjust brightness and colour.

You can also set scenes, set wake up alarms, sleep timers and introduce a number of lighting effects to your living space. You can control individual bulbs , rooms or the entire house all from the LIFX ® app. LIFX® also still functions like an ordinary light bulb by switching on and off at a regular light switch.

Specifications

Specifications and Safety

LIFX® A21 Bulb Specifications

Communication

- Frequency Band: 2.4 GHz Wi-Fi and 802.15.4
- Standards: 802.11 b/g/n Wi-Fi radio; 802.15.4 mesh

End Cap

- Edison Screw E26 and E27
- Bayonet B22

Lumens

- 1000 lumens at full brightness

Power

- Rated Voltage: Universal Power Supply 100 to 240V | 50/60Hz 0.2A
- Rated Power: 17 watts at full brightness
- Input Current: AC
- Power Factor: > 0.90 PF

Size & Weight

- Diameter: 65 mm (2.55 inches)
- Height: 135 mm (5.31 inches)
- Weight: 289 grams

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.



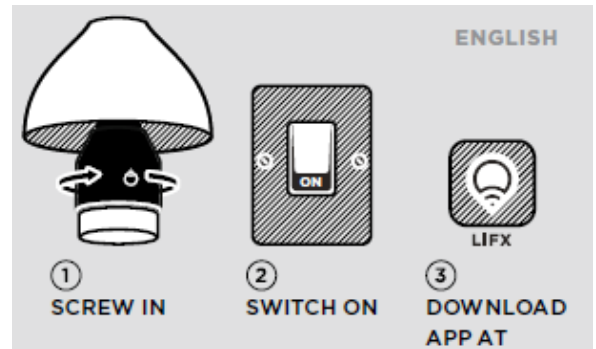
E27 – 9026340



B22 - 9026341

Quick Setup

1. Screw in LIFX bulb
2. Switch on power
3. Download app and follow in app instructions



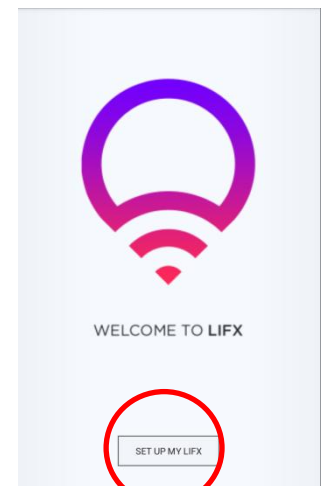
Detailed Setup

1. Screw in LIFX Bulb
2. Switch on power – the first time a LIFX bulb is plugged in it will cycle through the different colours
3. Download LIFX app from Googleplay or Apple App Store
4. Ensure Wi-Fi is enabled on your device
5. Open LIFX App and select “Setup my LIFX” ----->
6. App will connect automatically to lamp.

If using multiple lamps, please only switch on one lamp for setup. Other lamps can be added later.

If the app fails to find the bulb, Please switch off the bulb and use the hardware reset switch on the side of the LIFX bulb. Force quit the app and re-launch setup

7. Once the bulb is connected you will be asked to select your Wi-Fi network and provide the router password
8. Once the network credentials are inputted, these will be given to the LIFX bulb to create the network of lamps. Once the setup passes Step 5 you will get confirmation that the bulbs are now setup.



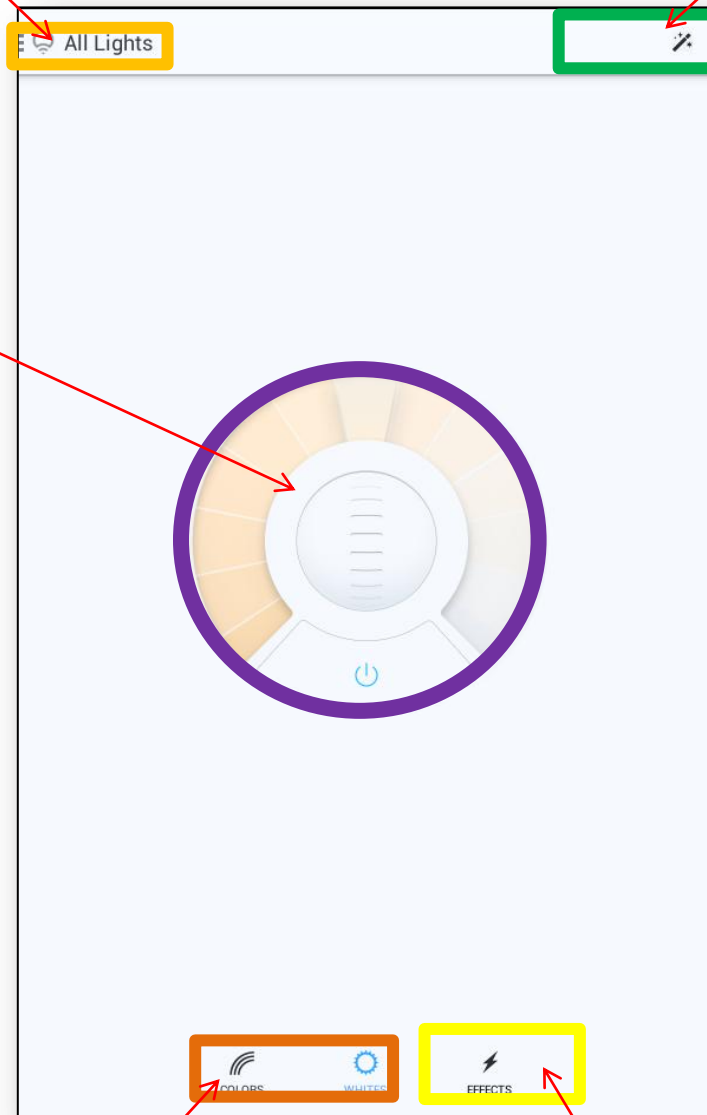
If you are experiencing difficulties please email support@lifx.co and we will do our best to help you out or visit lifx.co and see our Support section.

Using the App with LIFX - Controls

Select lights / add new lights

Create scenes

Create groups



Colour control wheel

Brightness control

On/Off

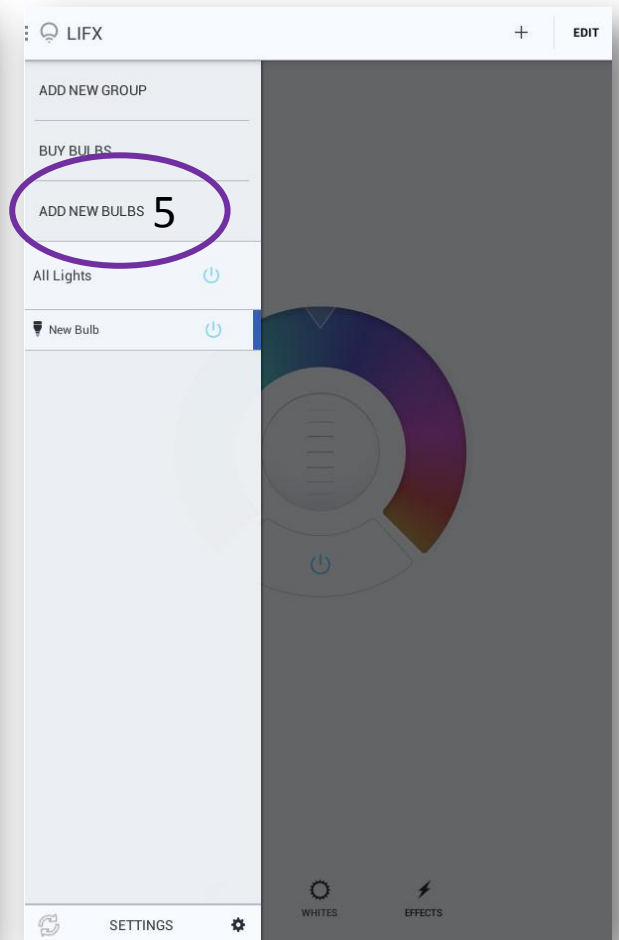
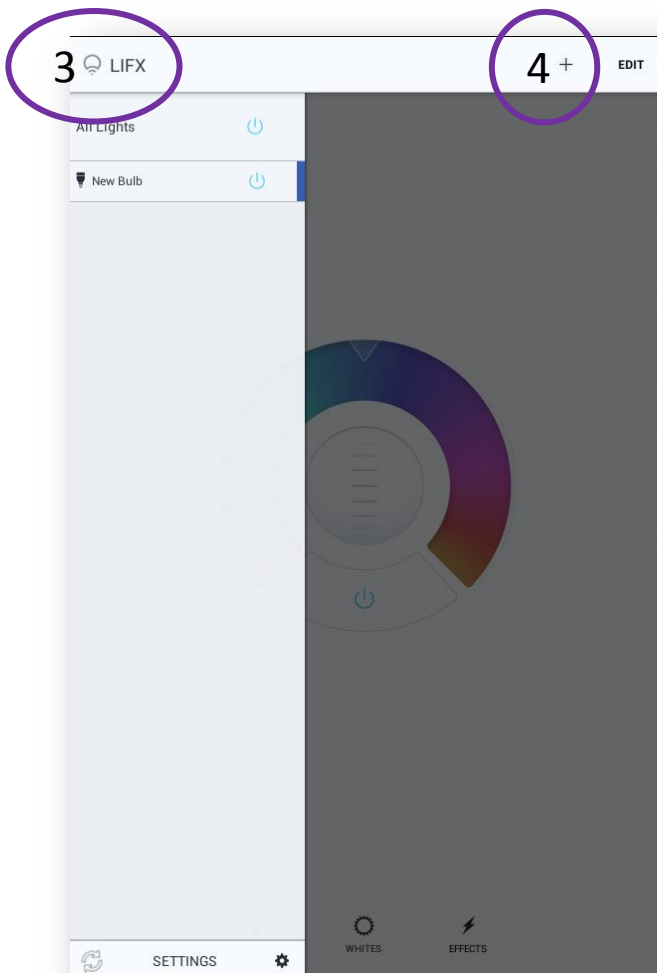
Switch between tunable white or RGB control

Effects

Using the App with LIFX

Adding additional bulbs

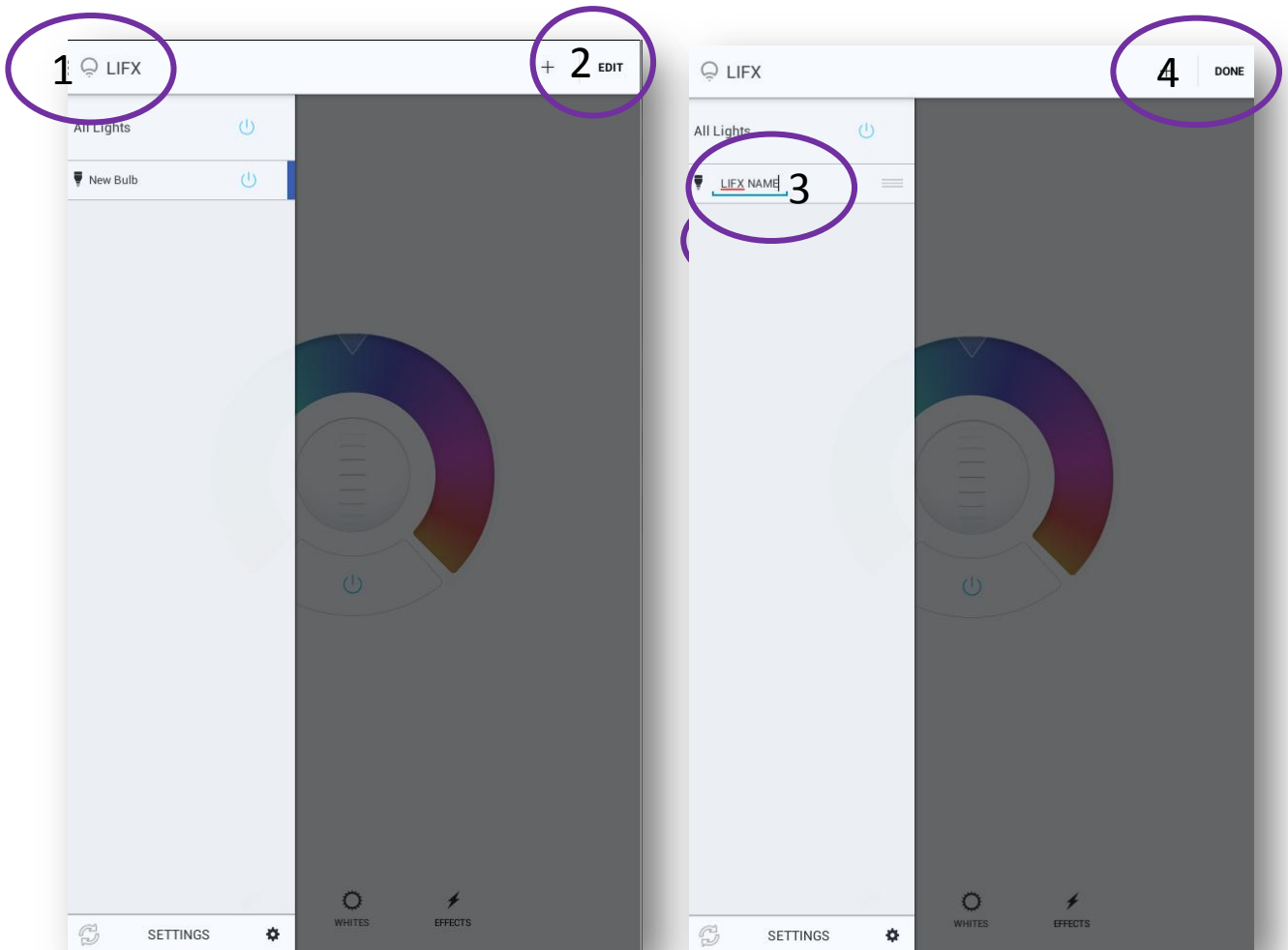
1. Switch on additional bulbs
2. Wait until new lights flash. This indicates they have been found on the same network
3. In the app, Select “All Lights” on the top left part of the screen
4. Click on the ‘+’ icon at the top right of the screen
5. Select “Add new bulbs” – The app will add new bulbs to the list



Using the App with LIFX

Naming Bulbs

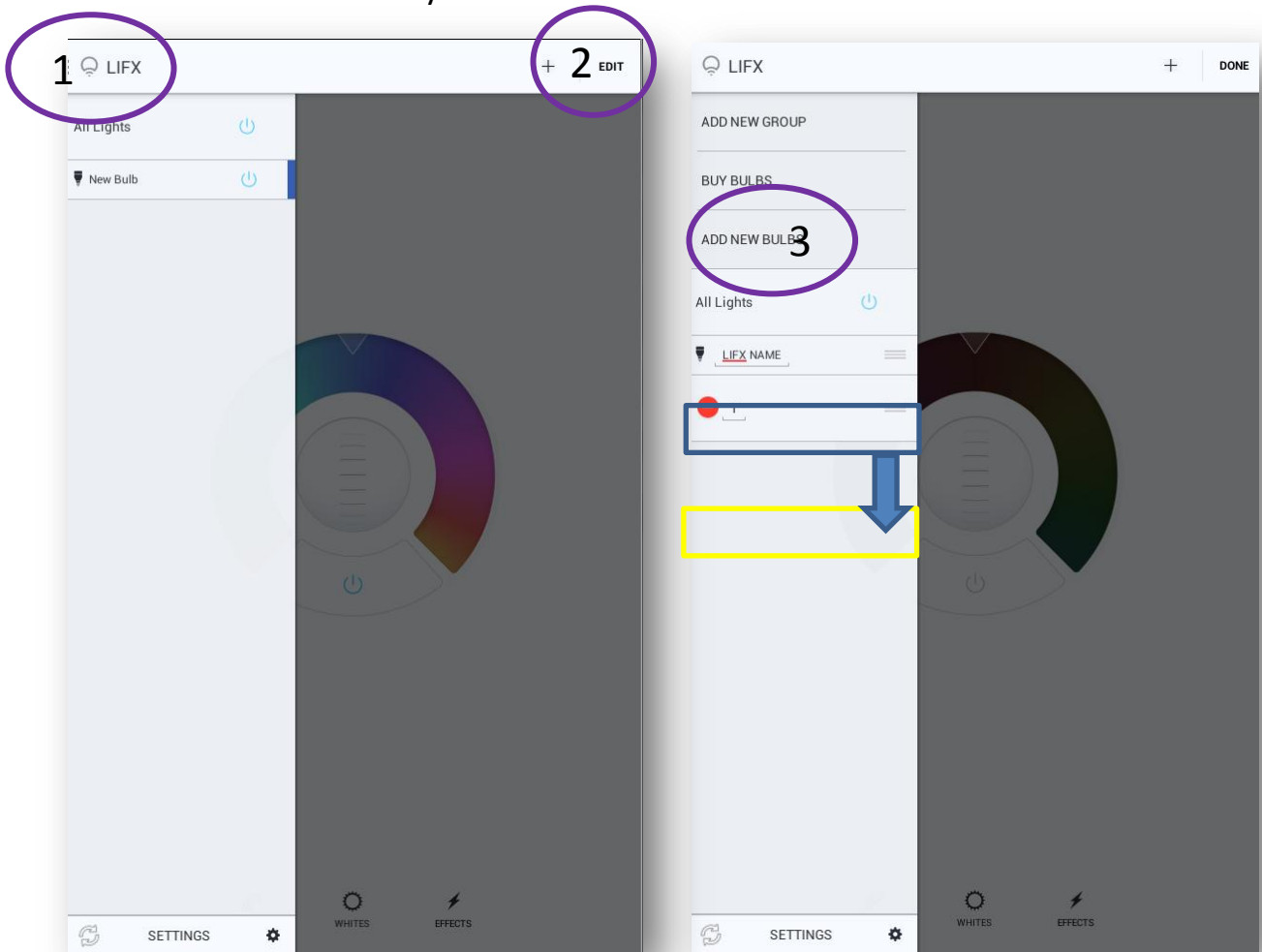
1. In the app, Select “All Lights” on the top left part of the screen
2. Click on the ‘Edit’ icon at the top right of the screen
3. Select the bulb you wish to rename and name as you want
4. Select ‘DONE’ when you have finished



Using the App with LIFX

Creating Groups



1. In the app, Select “All Lights” on the top left part of the screen
2. Click on the ‘+’ icon at the top right of the screen
3. Select “Add New Group”
4. Name the new group you are creating
5. To add lamps to the group drag and drop the bulb from list down into the group
6. Select ‘DONE’ when you have finished

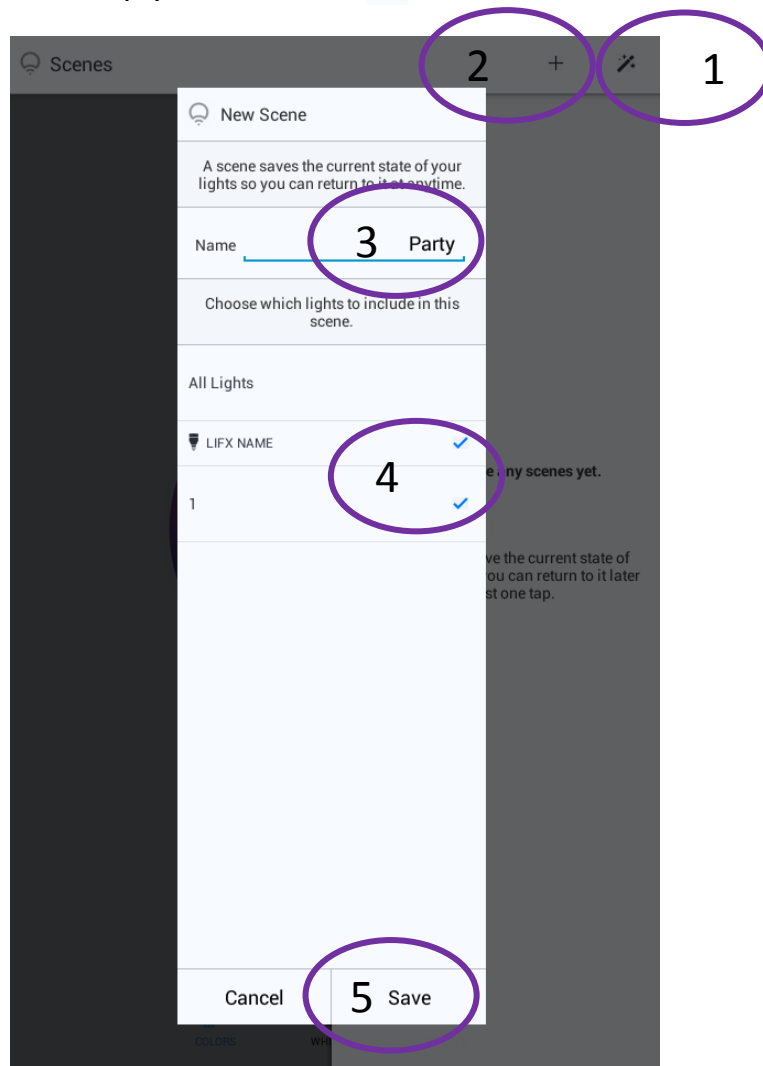


7. To delete a group select the ‘EDIT’ icon and click on the 

Using the App with LIFX

Creating Preset Scenes

1. In the app, configure the colour, brightness, groups of each bulb first
2. Then Click on the  icon at the top right of the screen
3. Then click the '+' icon
4. Enter the name of your scene and select which lamps / groups to include in the scene
5. Click 'Save'
6. To delete the scene simply click on the  icon



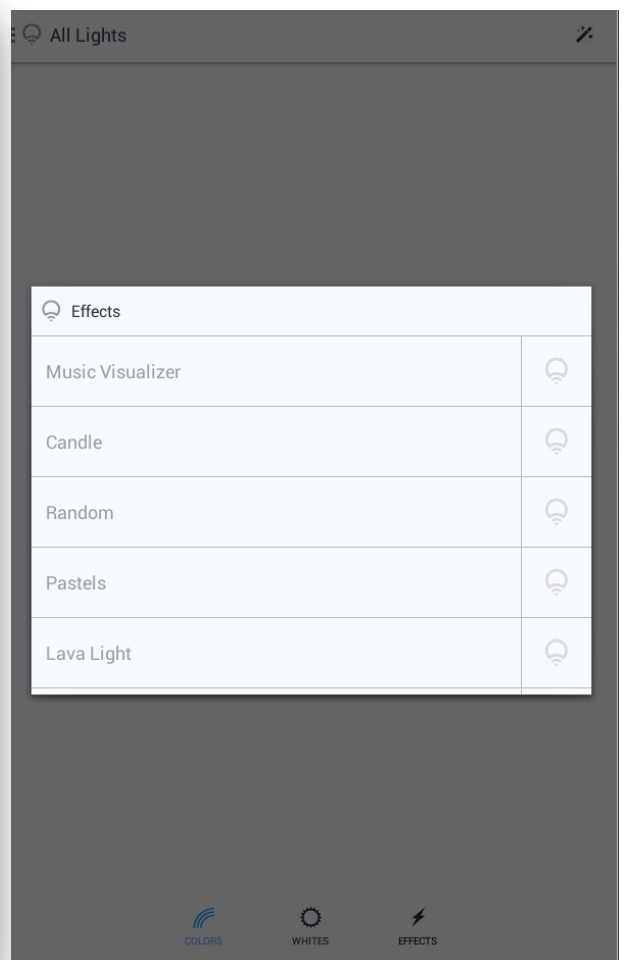
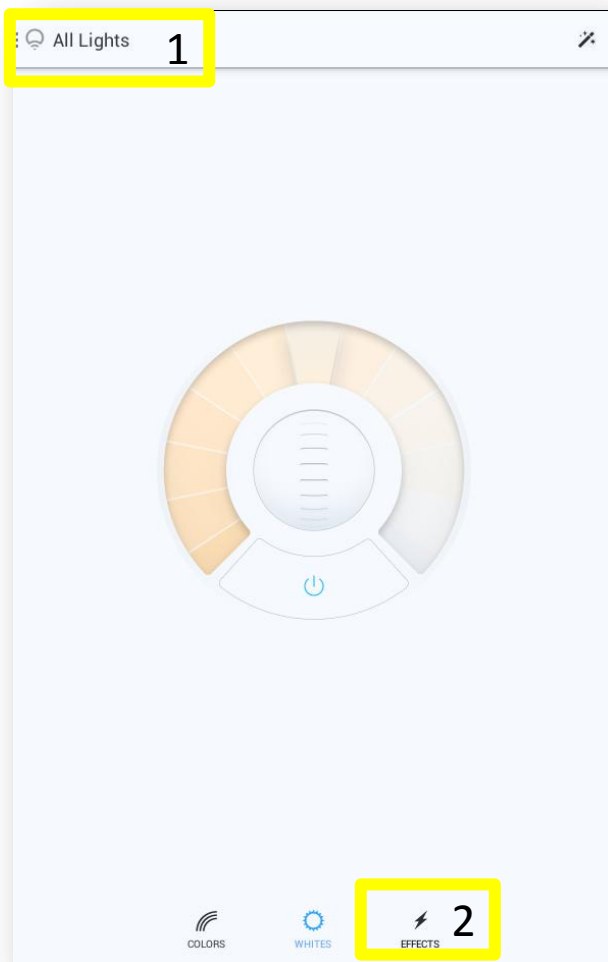
Using the App with LIFX

Effects

LIFX is continuously updating the software with new effects.

To select different effects:

1. Select the bulbs you wish to control in the top left part of the screen
2. Then on Effects icon
3. A new screen appears offering all the different possible effects.
4. Select the effect you wish. Do not forget to turn effect off to resume normal control



Using the App with LIFX

Controlling LIFX with multiple devices

LIFX has been designed so that any member of the household can use their own iOS or Android device to control the lights. To set up multiple devices all you need to do is be connected to the local Wifi network on the device and install the LIFX app. The LIFX app will then scan the Wifi network to find any bulbs currently on the network and allow the new device to control them.

When you change the colour/settings on one device, the other devices will also change to reflect the new state of the lights

Maximum number of bulbs

Our internal testing has had 60+ bulbs operating successfully on a single network. That said, depending on things like interference and wifi signal strength this may be reduced.

We recommend:

- Place your LIFX bulb in an open area where there are few obstructions, such as large pieces of furniture or walls.
- Place it away from metallic surfaces.
- Avoid placing your LIFX bulb behind furniture or inside cabinets.
- Don't place your LIFX bulb in areas surrounded by metal surfaces on three of more sides
- Place your LIFX bulb at least 25 feet (8 meters) from any microwave oven, 2.4 GHz cordless phone, or other source of interference.

Bulb Security

Because LIFX bulbs act as a device on your existing Wifi network, the security of each bulb is as strong as the security of your Wifi network. If someone has access to your Wifi network (e.g you have shared your Wifi username and password with them) they will have access to change the light settings if they have the LIFX app installed. For this reason we recommend that you make sure your Wifi network is secure and you don't share your Wifi details with anyone you don't trust.

Using the App with LIFX

Future Developments

We recommend that you always update the LIFX app to the latest version

- Control Away from home
- Integration to home automation
- Wake alarm
- IFTTT
- Social media alerts - LIFX has been designed to allow you to set your lights to notify you when you have social media alerts such as tweets, Facebook messages etc. Currently this functionality is limited but this will be added in an app update in the coming weeks.
- Check out the latest LIFX controllable Apps on Googleplay and App Store.

Tips and Troubleshooting

Hardware Resetting

You may notice a small switch on the back of your LIFX bulb. This is the hardware reset switch.

If you are having difficulties with a bulb, flicking the hardware reset switch will return the bulb back to its virgin state as if it was brand new.

How to hardware reset the bulbs:

- Turn the bulb(s) off
- Flick the reset switch into the opposite position (e.g if the switch is at the top position move it to the bottom, if the switch is at the bottom position, move it to the top.) NOTE: once the switch is moved to the opposing position the bulb is reset, it does not need to be returned to its original position)
- Turn the bulb closest to your router or access point on
- It should now flash Red, Green, Blue, & settle on White
- Please run through the setup procedure for the primary bulb

If you see any errors during setup, try the following:

- Force Quit the app
- Check to make sure that your device is connected to the correct network
- Relaunch the app

Can you control your bulb(s) now? If so, please proceed with the following:

- Turn the remaining bulbs on
- They should now flash Red, Green, Blue, & settle on White
- Open the LIFX app on your device
- In the settings is an option to "Add New Bulbs"
- Tap that option and your remaining bulbs will be added into the network
- If it still isn't showing all your bulbs in the list or the options isn't greyed out, tap it again
- You should now have control over all your bulbs.

Tips and Troubleshooting

Network Range

Each LIFX bulb also has a standard WiFi module built into it. As long as one bulb is in range of your WiFi router, LIFX then creates its own mesh network for all other connected bulbs in theory for up to one mile and beyond. Typical WiFi range is dependant on wall density, network range, WiFi device and signal strength (traditionally 5-15 meters).

Further Support

Should you encounter ongoing issues with your LIFX lamps, additional support is available at www.lifx.co and visit our support page. Alternatively please contact support@lifx.co where we will endeavour to respond to your query within 24 hours.

Warning and Cautions

Hardware compliance, limitations and warnings

Certification

LIFX® adheres to the certification requirements for various regions around the world. To see a full list of LIFX® certifications please go to www.lifx.co/legals to ensure LIFX® complies with the certification requirements in your region.

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.

This Class B digital apparatus complies with CAN ICES3 (B)/NMB3 (B)

This digital apparatus does not exceed the class B limits for radionoise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules.

Made in China. Fabrique en Chine

- THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS
- USE IN OPEN LUMINAIRE ONLY
- ADDED WEIGHT OF THE DEVICE MAY CAUSE INSTABILITY OF A FREESTANDING PORTABLE LUMINAIRE

This device is to be used only for mobile and fixed applications.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

End-users and installers must be provided with antenna installation instructions and consider removing the no collocation statement.

OEM integrators must be provided with antenna installation instructions.

OEM integrators and end-users must be provided with transmitter operation conditions for satisfying RF exposure compliance.

This grant is valid only when the device is sold to OEM integrators and the OEM integrators are instructed to ensure that the end-user has no manual instruction to remove or install the device.

"This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device."

Changes or modifications

Changes or modifications made to this device may void certification of the device

Recommended Installation requirements

This device should only be installed in light fittings and fixtures that are designed to accept a21 sized light bulbs 80w or greater (for LIFX® a21 bulbs) or GU10 light bulbs (for LIFX® GU10 bulbs). Lamps and fittings and fixtures that designed to accept smaller or lower wattage light bulbs may result in the LIFX® bulb operating below its optimal capacity. For optimal performance it is re-commended that LIFX® bulbs be fitted into fixtures that provide sufficient air flow through and around the bulb. It is recommended that the LIFX® bulb be installed away from other devices designed to receive or transmit radio signals. it is recommended LIFX® bulb/s be installed and operated at a minimum distance of 30cm from the body.

Warning and Cautions

Interference

LIFX® has been designed to minimise interference with other radio, broadcast or receiving devices. The manufacturer is not responsible for any interference caused as a result of modifications to the product or by failure to adhere to the “the Warnings and Cautions” section of this document. This device generates radio frequency energy and, if not installed in accordance with the “recommended installation requirements” may cause harmful interference to radio communication devices. If the device is causing radio interference it is recommended that the user try:

- a) relocating the device to a different place
- b) adjust the antenna on the receiving device
- c) consult a technician experienced in radio interference

Warning and cautions

LIFX® is not designed for use in:

- enclosed fixtures that limit the flow of air and/or trap excessive amounts of heat
- emergency exits or emergency lights
- conjunction with 3rd party sensors/timing devices that are not approved by LIFX®
- light fittings that incorporate dimmers not compatible with LIFX® (see support.lifx.co for a list of compatible dimmers)
- places where there is a risk of electric shock
- outdoor areas
- wet or damp conditions
- sockets that are not rated for this bulb
- sockets that utilise a 3rd party adapter
- excessively hot environments (e.g. close to ovens, radiators, heaters, etc.)
- regions or countries other than that in which the product was intended for.

When using LIFX®

- switch off the power supply to the socket and allow sufficient time for the bulb to cool before removing a LIFX® bulb from the fitting.
- do not open device, as this will void the warranty
- do not place in reach of children. This device is not a toy and should not be given to children.
- do not clean the device when it is on and or connected to the light socket
- regularly clean the bulbs with a soft dry cloth, do not use cleaning agents.



Limited Warranty

General.

Lifi Labs Inc. ("LIFX®") warrants the LIFX® bulb (the "Product"), and only the Product, against defects in materials and workmanship under normal use ("Defect") for a period of THREE YEARS (1095 days) from the date of retail purchase by the original purchaser ("Warranty Period"). Under this Limited Warranty, if a Defect arises and a valid claim is received by LIFX® within the Warranty Period, at its option and to the extent permitted by law, LIFX® will either (1) repair the Product at no charge, using new or refurbished replacement parts or (2) exchange the Product with a new or refurbished Product. In the event of a Defect, to the extent permitted by law, these are your sole and exclusive remedies. A replacement Product or part assumes the remaining warranty of the original Product or three years (1095 days) from the date of replacement or repair, whichever is longer. When a Product or part of the Product is exchanged, any replacement item becomes your property and the replaced item becomes LIFX®'s property. Parts provided by LIFX® in fulfillment of its warranty obligation must be used in Products for which warranty service is claimed.

Instructions to Obtain Warranty Service:

To obtain warranty service, you must deliver the Product, freight prepaid, in either its original packaging or packaging providing an equal degree of protection, to the address specified by LIFX® within the Warranty Period along with a written description outlining the Defect in reasonable detail. In accordance with applicable law, LIFX® may require that you furnish proof of purchase details and/or comply with registration requirements before receiving warranty service. It is your responsibility to backup any data, software, or other materials you may have stored or preserved on or in relation to the Product. It is likely that such data, software, or other materials will be lost or reformatted during service, and LIFX® will not be responsible for any such damage or loss. For specific instructions on how to obtain warranty service on your Product, visit the LIFX® website (www.lifx.co/help).

Exclusions and Limitations.

This Limited Warranty applies only to the Product manufactured by or for LIFX® that can be identified by the "LIFX®" trademark, trade name, or logo affixed to it.

The Limited Warranty does not apply to any (a) LIFX® products and services other than the Product, (b) non-LIFX® hardware product, (c) consumables (such as batteries), or (d) software, even if packaged or sold with the Product or embedded in the Product. Refer to the licenses accompanying the software for details of your rights with respect to its use. LIFX® does not warrant that the operation of the Product will meet your needs or requirements or be uninterrupted or error free. LIFX® is not responsible for damage arising from failure to follow instructions relating to the Product's use or from failures resulting from inadequate electrical supply or internet access. This warranty does not apply to a Product or part of the Product that has been altered or modified (e.g., to alter functionality or capability) by anyone who is not a representative of LIFX® or if the Product is inserted or installed in a casing not provided by LIFX®. In addition, this Limited Warranty does not apply to Defects or damage caused by (a) use with non-LIFX® products; (b) accident, abuse, misuse, flood, fire, earthquake or other external causes or abnormal conditions; (c) operating the Product outside the permitted or intended uses or conditions described by LIFX® or with improper voltage or power supply; or (d) service (including upgrades and expansions) performed by anyone who is not a representative of LIFX®. Recovery and reinstallation of software programs and user data are not covered under this Limited Warranty. This Limited Warranty does not cover the cost of returning the Product to LIFX®; this is your responsibility. No LIFX® reseller, agent, or employee is authorized to make any modification, extension, or addition to this Limited Warranty. If any term is held to be illegal or unenforceable, the legality or enforceability of the remaining terms shall not be affected or impaired.

Limited Warranty

Exclusive Warranties.

THE WARRANTIES SET FORTH HEREIN ARE THE EXCLUSIVE WARRANTIES PROVIDED BY LIFX®, AND EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED WARRANTIES (INCLUDING WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENTEMENT) ARE HEREBY EXCLUDED.

Limitation of Damages.

EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, LIFX® SHALL NOT BE LIABLE FOR ANY INCIDENTAL, INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY USE OF THE PRODUCT OR BREACH OF EXPRESS OR IMPLIED WARRANTY OR CONDITION, OR UNDER ANY

OTHER LEGAL THEORY. LIFX®'S LIABILITY FOR DAMAGES RESULTING FROM ANY USE OF THE PRODUCT OR BREACH OF EXPRESS OR IMPLIED WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY WILL BE LIMITED TO THE ORIGINAL COST PAID FOR OF THE DEFECTIVE PRODUCT.

Consumer Protection.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary by state to state.

Governing Law and Arbitration.

This Limited Warranty shall be governed by the laws of the State of California without giving effect to any conflict of laws principles that may provide the application of the law of another jurisdiction and without regard to the Convention on Contracts for the International Sale of Goods. Any claim or dispute in connection with this Limited Warranty shall be resolved in a cost effective manner through binding non appearance based arbitration. The arbitration shall be initiated through an established alternative dispute resolution provider mutually agreed upon by the parties. The alternative dispute resolution provider and the parties must comply with the following rules: a) the arbitration shall be conducted by telephone, online and/or be solely based on written submissions, the specific manner shall be chosen by the party initiating

the arbitration; b) the arbitration shall not involve any personal appearance by the parties or witnesses unless otherwise mutually agreed by the parties; and c) any judgment on the award rendered by the arbitrator may be entered in any court of competent jurisdiction. If the foregoing arbitration clause does not apply for any reason, you agree to submit to the personal jurisdiction of the state courts located within San Francisco County, California and the federal courts in the Northern District of California for the purpose of litigating all such claims or disputes, which courts shall have exclusive jurisdiction of such claims or disputes. Notwithstanding the foregoing, LIFX® may seek injunctive or other equitable relief to protect its intellectual property rights in any court of competent jurisdiction.



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