



LED SMART  
LYRA MANUAL

*WWW.SPIN-FX.COM*  
*v2.0*

Welcome to your SpinFX LED Smart Lyra manual! This guide will walk you through a few basic instructions and important safety guidelines to ensure that you and your hoop have a long and bright journey together.

**\*PLEASE NOTE\***

**Detailed instructions, tutorials and safety information can be found on the *LED Smart Lyra* page of our website at [www.spin-fx.com](http://www.spin-fx.com)**

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## HOOP CARE

Here are some tips to keep that hoop flyin' for a long, long time:

- Avoid exposure to extreme hot or cold temperatures for prolonged periods of time.
- Anytime the lyra is not suspended in the air, cover the entire hoop with round plumbing foam tubing to protect the LEDs. You can then tie zip ties around the hoop to keep the foam protection in place.
- If you are planning on taking your hoop to a place where sand, dust or moisture might get inside, take a moment to be sure the plastic cap ends are on the battery/board housing to keep the electronics in tip top shape!
- Avoid banging or dropping your hoop on hard surfaces like concrete, which could damage the LEDs. Again, use the foam protector when it's not in the air.

## SET UP

When you receive your hoop, remove the zip ties and foam protection. Find the battery & board housing.



Connect the end of the attached wire to the wire found on the hoop itself. This supplies power and commands to the hoop. To properly click into place, be sure black wire is to black, red wire is to red.



There are extra layers of protection at the top of the lyra where the hands apply the most grip to help withstand the pressure on the LEDs over time.

When rigging the hoop, use holes in the housing to zip tie the housing on the span set a few feet above the hoop so it is out of the way and will not be interfered with when in use. You may also want to use black gaffer tape to tape down the wire from the hoop to housing to further secure it from being tugged while in use.



Be sure that if you are using a swivel it is located above where you place board housing or else when you spin, the wire will twist and can be damaged.

Swivel →

Housing →

Wire  
Connection →



## **SAFETY**

Always be sure to have safe, proper and professional rigging to suspend your lyra. Only use tested and certified rigging equipment.

## WHAT'S INCLUDED

The LED Smart Lyra comes with:

Battery & Board Housing Case

USB Cable

Dual Port Charging Unit  
(can use either port – 2.1A charges  
faster)

Remote (x2)

## HOUSING CASE FUNCTIONS



## **Power Button**

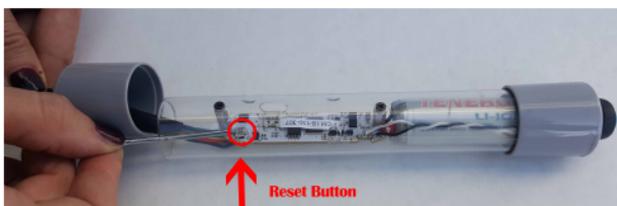
The only means to turn your hoop on.

## **USB Port**

Used to connect to your computer and charge your hoop.

## **Reset Button**

Resets the hoop. Press gently downward with a blunt object such as a hairpin or pointed pen cap.



## **IR Remote Receiver**

When the hoop is suspended in the air and you want to use remote functions, the IR receiver on the circuit board must be within a direct path to the remote, which is why the case is clear.

## **Holes**

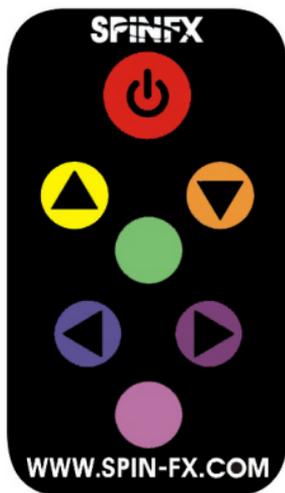
There are holes provided in the case for zip ties to be attached and hung from the span set.

## **Cable**

The cable will be attached to the cable on the hoop to provide power and supply hoop functions.



## REMOTE FUNCTIONS



By default, the remote has the following functions set:

### **POWER (RED)**

Save settings and go to sleep  
You cannot turn your hoop on with the red power button.

### **UP/DOWN (YELLOW AND ORANGE)**

Changes patterns forward and back

Your hoop must have Autoplay OFF for this function to work  
If Autoplay is on, the up/down buttons will do nothing.

### **CENTER (GREEN)**

Toggles between Autoplay On/Off. Autoplay On automatically advances through the patterns. When it is off, the hoop will remain on the same pattern.

So, say your hoop has Autoplay On but you want to change patterns manually – press Green, now your hoop is in single pattern mode, now channel up/down will change patterns forward or back.

### **RIGHT/ LEFT (BLUE AND PURPLE)**

Increase/decrease brightness  
Dimming brightness can help save battery life if you plan on using the hoop for long periods of time without needing to charge it.

## **BOTTOM (PINK)**

Battery Status Indicator - hoop will act as a battery gauge and display the current battery level. Fully charged hoop is fully lit, as battery drains, fewer LEDs will show.

**NOTE:** You are able to manually change the remote functions - that's an advanced feature and you can refer to the scripting tutorial on our website for more details on that.

## **Changing Remote Batteries**

Type of Battery: Lithium 3V CR 2025

Press the small notch inward and pull out battery tray. You may want to use tweezers to help.

## CHARGING

- The lyra Battery should last about 3 to 3.5 hours on a full charge at full brightness. Lower brightness levels will last much longer.
- Wall unit is main means of charging. When you plug in the charger to the USB port the board will show a red charging light. This light will turn green when the battery is fully charged.
- The lyra does NOT have to be connected to the boarding/battery housing to be charged.
- You can also charge from your computer or any other standard USB port including car chargers and portable chargers.
- The hoop has a safety feature that will automatically shut the hoop off before the battery gets critically low.
- Charge the battery at least once per month to extend battery life.

# CONNECTING YOUR COMPUTER

## Connecting

- Plug in USB cable from Housing Case to computer, turn on hoop, find LYRA drive and open it
- Review the files – patterns (.bmp) and settings.cfg
- Hoopinfo.txt shows firmware version your hoop is running

## How to remove patterns

- Delete the files you no longer want (but be sure to save them in a separate file for later use)

## How to add patterns

- Drag and drop OR copy/paste the bitmap (.bmp) files into the LYRA Drive

\*For complete details, please watch our *Connecting Your Computer Tutorial* Video on our website [www.spin-fx.com](http://www.spin-fx.com).

## Changing Settings

- Settings.cfg is a text file
- This is the file where the settings are saved on your hoop. If the file is not present, the factory defaults are used.
- To edit this file use a text editor like Notepad on Windows or Text Edit on Mac.
- You can change settings here like brightness, autoplay and sort mode. Refer to the Basic Settings Tutorial on the website for more info.
- Some of these settings you'll definitely want to know about, others are not necessary.
- **Remember to save your settings,** eject the LYRA drive and then turn your device off. Turn the hoop back on and your new settings will be loaded and ready for action!

## **PATTERN MAKING**

You can use Photoshop, Pixlr.com, or any photo editing software.

### **Basic Rules**

Start with an all Black image. A black background turns the LEDs off. The format is in bpp (bits per pixel) bitmap. This indicates the color depth. Any color depth will work.

Think of each Pixel as an LED of your hoop. So how big can your pattern be in pixels for a Lyra? As many pixels as there are LEDs in your hoop, which is about 220-230 depending on the size. If your pattern is too large for your hoop it will be cut off. If it is smaller than your hoop, the pattern will be repeated until the hoop is filled.

**NOTE:** Be sure not to use spaces in the name of your pattern but use \_ underscore instead. Only use letters, numbers or underscores in the names of your patterns, otherwise it will not work.

*Example: white\_chase.bmp*

\*For complete details, please watch our *Pattern Making Tutorial Video* or see our step-by-step guide located on our website [www.spin-fx.com](http://www.spin-fx.com).

## **SCRIPTING**

Scripting allows you to command a hoop which pattern to display at certain time marks. That means you can choreograph the pattern display to a song of your choice for performances with one or multiple hoops.

You can visit our scripting tool on the website to easily create your script. Just drop the patterns you

want on the timeline and generate your file to upload to your hoop.

\*For complete details, please watch our *Scripting Tutorial* Video located on our website [www.spin-fx.com](http://www.spin-fx.com).

## **CHOREO MODE**

Choreo Mode allows for multiple hoops to synchronize the timing of patterns. This is great for those Hoopers who use multiple hoops or performance troupes that want to choreograph performances with multiple hoops.

First upload the script you would like to each prop and then in the settings file remap the pink button on the remote to "restart\_script" This button will be used to synchronize the props when they are turned on.

There are a few more important steps you will need to follow in order to properly use Scripting and Choreo Mode.

\*For complete details, please watch our *Scripting Tutorial* Video located on our website [www.spin-fx.com](http://www.spin-fx.com).

## **FIRMWARE UPDATES**

One of the most incredible features of this hoop is that it always has the capability to become more advanced. The best part of that is, once you have your hoop you can get the updated advancements by simply connecting your hoop to your computer and running a simple firmware updater. This ensures that your hoop has the latest and greatest features. This updater can be found in the "Updates" tab of the Lyra Page on our website for both PCs and MACs.

## **TROUBLESHOOTING**

There are many amazing features of the LED Smart Lyra and as such, it will take you some time to get familiar with all of them. So be patient with yourself as you would if you were learning a new language.

### **RESET**

There are 2 ways to reset your hoop if the hoop is acting strange or not turning on. The first way is by holding the power button down for 5-10 seconds until you see a single bright green LED on the strip light up. There is also a small grey reset button located on the end tip of the circuit board if you open the hoop. You can press it **GENTLY** with a blunt object like a hair pin or pen cap. You should then also see the single bright green LED light up. This indicates the hoop is reset and the patterns will start playing.

## REFORMAT

A reformat completely erases your hoop drive of all files and gives it a fresh start. This may be needed if the hoop is stuck perhaps because of corrupt files being uploaded to it. Be sure to save all of the files on your hoop in a folder so you can reload them later.

**PC:** To reformat right click on the LYRA drive while it's plugged in to your computer. Click "format" and ok. Once finished reload your patterns and settings file on to your hoop and it's ready to go!

**MAC:** To reformat go to Utilities>Disk Utilities>Click LYRA drive on left>Click Erase tab at top>Click Erase...>and Ok. Once finished reload your patterns and settings file on to your hoop and it's ready to go!

There are many resources on our website where you can troubleshoot, learn and explore the wonderful possibilities of your LED Smart Lyra. FAQ, Troubleshooting and Tutorials tabs on the Lyra Product Page are a great place to start your journey. And remember, the hoop is your oyster. Once you learn the workings of it, you can control and guide it in any way you want.

If the website does not answer your questions, you can reach our support team at [support@spin-fx.com](mailto:support@spin-fx.com).

## **APP CONTROL**

The SpinFX App is available for Android and iOS and can be found in the Google Play or Apple Store as "SpinFX Remote" The App has the ability to view the remote functions

such as changing patterns, folders, hoop modes and brightness.

\*For complete details, please watch our *App Tutorial* Video located on our website [www.spin-fx.com](http://www.spin-fx.com).

## **WARRANTY**

SpinFX offers a one-year warranty on its hoops internal electronics. Batteries have a 6-month warranty due to the nature of lithium-ion batteries. This excludes the lyra being dropped, smashed into things, water and fire damage.

LED hoops have many sensitive components that sometimes may be damaged or worn. We have worked hard with years of testing to build an extremely durable and reliable hoop for our customers. Please note that it is the responsibility of the user to take care of their hoop.

## SERVICE

For questions, repairs, warranty, troubleshooting, tubing replacement and other service issues, please contact us [support@spin-fx.com](mailto:support@spin-fx.com) or fill out the *Service Request Form* on our website at [www.spin-fx.com](http://www.spin-fx.com).

## BATTERY SAFETY & WARNINGS

- To promote the safe use of remote-controlled devices that contain rechargeable lithium-ion batteries, we recommend the following:
  - Do not leave the hoop unattended while charging it.
  - Battery charging should be done by adults.
  - Charge the hoop on a non-flammable surface and keep it away from flammable items.
  - Unplug the hoop from charger when battery is charged.

- Disconnect wall chargers from outlets while not in use.
- If the hoop has been damaged, immediately stop use, unplug, and safely move the hoop away from flammable materials.
- Follow SpinFX instructions for charging the hoop.

## **DISCLAIMER**

This product has the potential for injuries. By purchasing, ordering and or using the product or any products from SpinFX, Inc. or its affiliates and partners, you and (or related users) are responsible for any risks, injury or damage. You release SpinFX, Inc. and affiliates, employees, and partners from any responsibility or liability for any injury, accident or death caused by any of its products whether directly or indirectly. It is the responsibility of the individual user to take the necessary precautions to minimize

hazards. Using this equipment states that you fully accept these terms and conditions and that you are accepting full and unconditional responsibility for any and all consequences caused.

## **MOST IMPORTANT**

The LED Smart Lyra is a powerful medium to express your creativity, inspire others around you and feel fulfillment within. It is the intention and mission of SpinFX to support your unique hoop journey. We encourage you to share your story, experiences, photos, videos and custom patterns with the community on the *SpinFX page* on Facebook. We look forward to meeting you there!