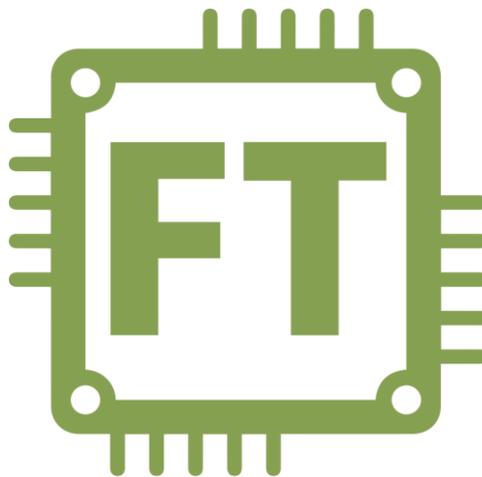


Pyroterra Lighttoys

presents

FUTURE CHIP TECHNOLOGY



Quick start guide

v1.2 (ENG)

Introduction

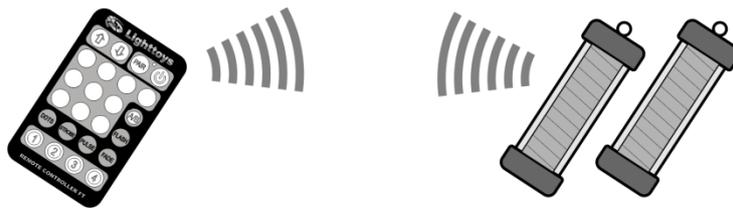
Welcome to the world of FT products from Pyroterra Lighttoys! FT brings many new features never seen before in Lighttoys products. This guide will explain them all so you can utilize your FT products full potential in no time. 😊

The concept of FT

The idea behind Future Chip Technology is that all Lighttoys FT products communicate with your remote controller using smart wireless protocol. You can use FT in two ways:

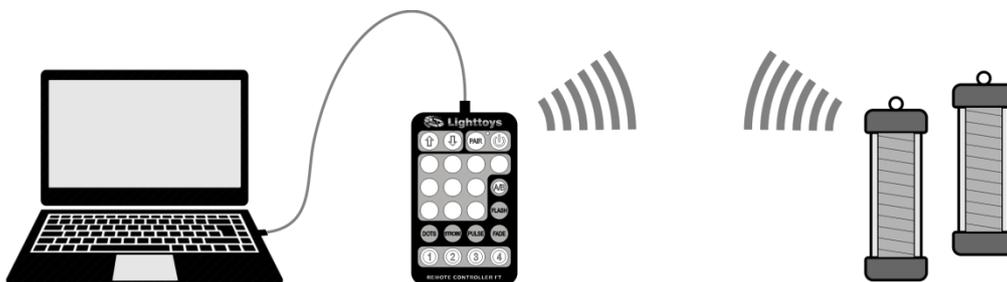
Manual mode

FT products retain the simplicity you love in Pyroterra Lighttoys. Used this way, you can play with the new color settings and the paired FT products will react as you press the buttons on the remote:



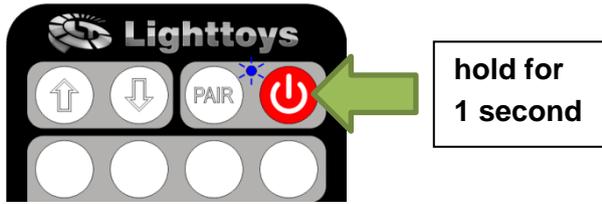
Program mode

In addition to manual operation, you can prepare programmed light sequences (shows) and upload them into your FT products (4 for each device). The shows are then started either by signal from your computer or manually by pressing a button on the remote:



Powering on/off

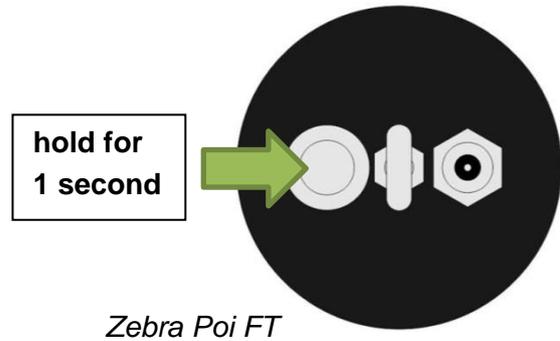
In order to use your new FT products, you need to power on both the FT remote and the Lighttoys FT device.



To turn on the FT remote, press and hold the red button for 1 second, until the blue indicator LED on the remote starts shining.

To turn off, press and hold the red button again until the blue LED stops shining.

To turn on your FT device, locate its power button. Press and hold it for 1 second, until the device's LEDs blink twice.



Zebra Poi FT

Auto power-off

Both the remote and FT device will turn off after **30 minutes** of inactivity to save battery power. This feature is disabled, when any preprogrammed sequence (show) is running or the FT remote is plugged to the computer. Pressing any button on the remote will reset the timer.

Pairing procedure

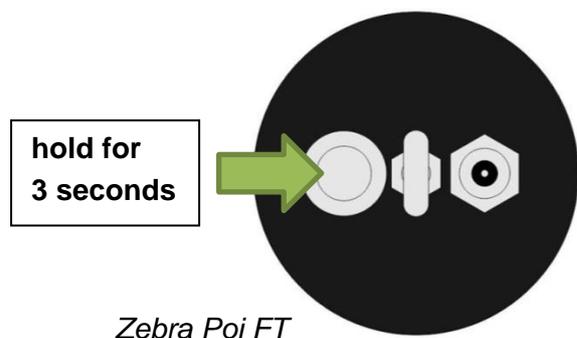
Pairing procedure synchronizes your FT remote with the FT devices of your choice. Whenever you want to control more or different FT devices, you will need to perform a new pairing process.



First, press and hold the PAIR button for 1 second. The indicator LED will start blinking. This shows the remote has entered a pairing mode.

Make sure all FT devices you want to pair are turned off.

For each FT device, press and hold its power button for 3 seconds, until you see the LEDs double blink in white color – indicating a successful pairing.



Zebra Poi FT



hold for
1 second

After all FT devices are paired, press and hold the PAIR button for 1 second. The indicator LED will stop blinking.

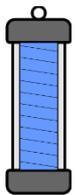
Congratulations, the pairing procedure is now completed.

Useful tip

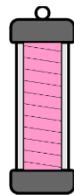
During the pairing process, the 2.4GHz radio spectrum is scanned and best channel is selected (with least interference). When performing with Lighttoys FT in a new venue, it is recommended to perform a new pairing procedure close to the actual gig where performance is about to happen.

Standby mode

After a successful pairing, all of your FT devices will enter a standby mode. In the standby mode, LEDs will shine in a blue color, indicating trouble-free communication; or in a pink color, indicating a bad signal quality or no communication:



FT remote is answering,
signal quality is good.



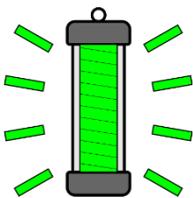
Paired remote is turned off,
or signal quality is bad.

You can also access the standby mode by pressing the PAIR button on your FT remote. This is useful when you have many paired FT products and want to check their status.

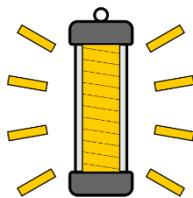
Battery indication

All Lighttoys FT devices come equipped with a battery status indicator, giving you a rough idea how much power is still left for your performance.

The battery level indication is displayed every time you turn your FT device on or off. LEDs will double blink in a color progressing from green to red as the charge drops:



Fully charged



Low battery
charge when possible



Empty
charge immediately

When the battery capacity reaches a critically low level, the device starts blinking slowly in a red color for 10 seconds, then turns off to protect the battery.

FT remote overview



Indicator LED

The blue colored indicator LED at the top of the FT remote indicates the different conditions of the remote:



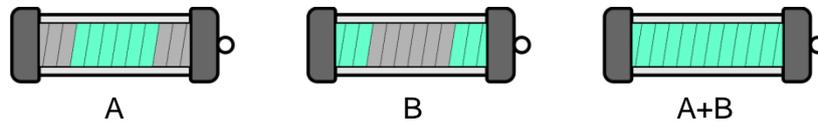
Silent mode

You can use the ON/OFF button on the remote to turn off the light output of the FT device, entering a so called silent mode. In this mode you can start shows discretely, without the audience noticing.

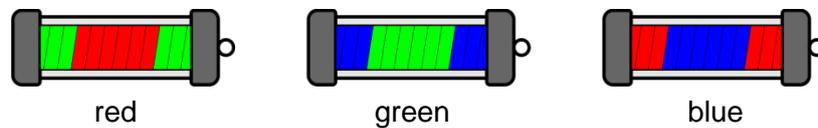
When you are in the silent mode, press the ON/OFF button again to return to the previous state, or press any color or dynamic mode to turn on the light output.

A/B button

Many of the Lighttoys FT products come with two separate light segments that can be controlled and programmed independently. The A/B button selects which segment you currently control. Press it repeatedly to control A, B, or A+B segments:



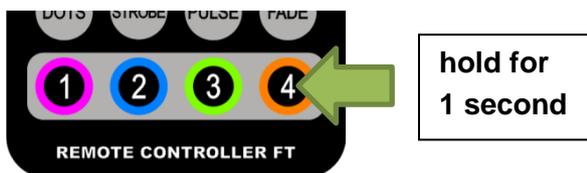
If you hold the A/B button for full 1 second, the device will switch over to the “classic” Zebra mode – you control only the A segment and B segment is automatically set to inverse color setting:



Press and hold the A/B button for 1 full second to return back to normal operation.

Favorite modes

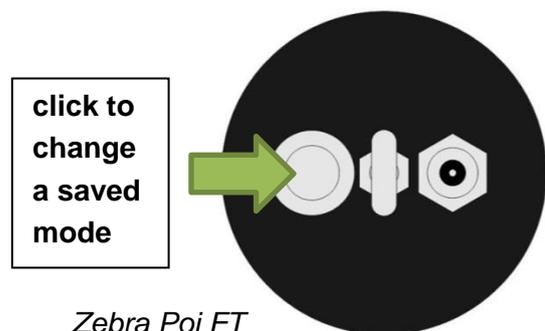
You can easily store your favorite color modes under the show buttons 1– 4 on the FT remote and then quickly recall them when needed.



To save a color mode you like, press and hold one of the show buttons for 1 second. The FT device will confirm by momentary dimming its LEDs.

To play the saved favorite mode, simply click the show button on the remote.

You can also cycle through all saved favorite modes, by clicking the power button on the FT device repeatedly.



To delete the favorite mode, first press the PAIR button to enter the standby mode, then press and hold the show button for 1 second. The FT device will confirm by momentary dimming its LEDs.

Useful tip

Favorite modes are disabled, if the FT device has any programmed show(s) stored in it. Once you erase all shows, the favorite mode feature will be available again.

Programmed sequence

To run your personal programmed light sequence (show), you first need to create the sequence code. This can be done in our web application [FT Designer](#) or by writing the code by hand. This process is explained in our guide: ***Lighttoys FT - data format handbook***.

To upload the sequence into the FT device, you use the FT loader app. How to use this application and upload sequences is described in our guide: ***Lighttoys FT - loader application***.

Starting & stopping the show

Your uploaded shows can be started by pressing the corresponding buttons labeled 1 to 4 on the FT remote, the show will start running immediately.



A show in progress can be stopped in two ways:

- by pressing the ON/OFF button on the FT remote for 1 second
- by pressing the power button on the FT device for 2 seconds.

When the show ends, the device will return to the same state as before the show started (be it a color mode, standby, or silent mode).

Solo performance

When an FT device is in silent or standby mode, the show number 1 can also be started with a press of the power button on the FT device. This is handy for solo performers, who don't have time or free hands to operate the FT remote.

If the device is not in silent or standby mode (i.e. showing static color or playing dynamic mode) then this feature is inactive.

Perfect Sync

Perfect Sync is a unique functionality of the new FT generation of products. It makes sure that your devices always start and run synchronized, no matter how strong the electronic interference at the stage is or when the performer accidentally stops the show.

How it works

When you press the button 1-4 on the FT remote to start the programmed sequence, the remote begins to repeatedly send this start information along with a current time mark (actual position into the running show):



If some FT device doesn't catch the signal, the moment it gets it, it will calculate its precise position in the show (with 2 millisecond accuracy) and start from there!

Perfect Sync feature helps to rescue the following unfavorable situations:

- SITUATION 1 – some FT device(s) don't catch the start signal.
Remedy: wait for the FT device(s) to catch the signal; when the interference is strong, come closer with the FT remote.
- SITUATION 2 – the artist stops the show by a long press of the main button.
Remedy: the FT device will start from the correct time position immediately.
- SITUATION 3 – some FT devices(s) were not turned on when the show started.
Remedy: Turn on the FT device with the main button and the FT device will start from the correct time position immediately.

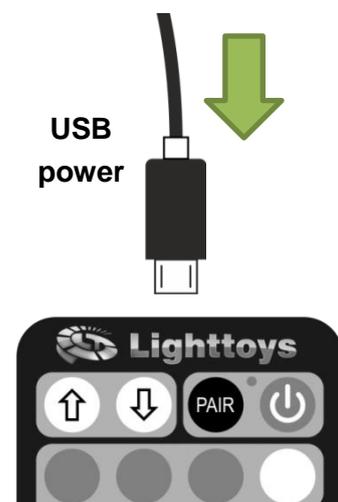
The following video shows the Perfect sync feature in action: <https://youtu.be/avgoezJM9Z0>.

Device charging

When the blue LED indicator starts to show low battery status (intermittent dimming), charge the FT remote.

You can use any common USB charger (5V). FT remote is also charged whenever attached to computer. The FT remote is designed to last several weeks of use.

For charging your Lighttoys FT device, please use the specific charger included.



*We wish you many great moments
with Lighttoys FT!*

