

Pyroterra Lighttoys  
presents

# FIRMWARE UPDATE GUIDE



v1.8  
(ENG)

# Introduction

Firmware update is a process that updates the internal program that controls your FT remotes, Visual, FT and FT2 devices. This guide will walk you through the process.

## Why to update

Firmware update brings new functionality, improves stability and fixes bugs of your Lighttoys props. It is recommended to perform the update every time a new update package from Lighttoys is released.

## When to update

Firmware update is a sensitive procedure, which might need several tries and a place with low radio interference. Therefore, we recommend that you perform the update only when you are in no stress and have plenty of time before the next show :)

## What you need

To perform the firmware update process, you need to download the latest version of the LtComposer software, available from our [downloads page](#) for both Windows and macOS.

LtComposer already contains all the necessary firmware files for the update process, so it can be used as is.

## What props are supported

LtComposer supports the firmware update of the following Lighttoys props:

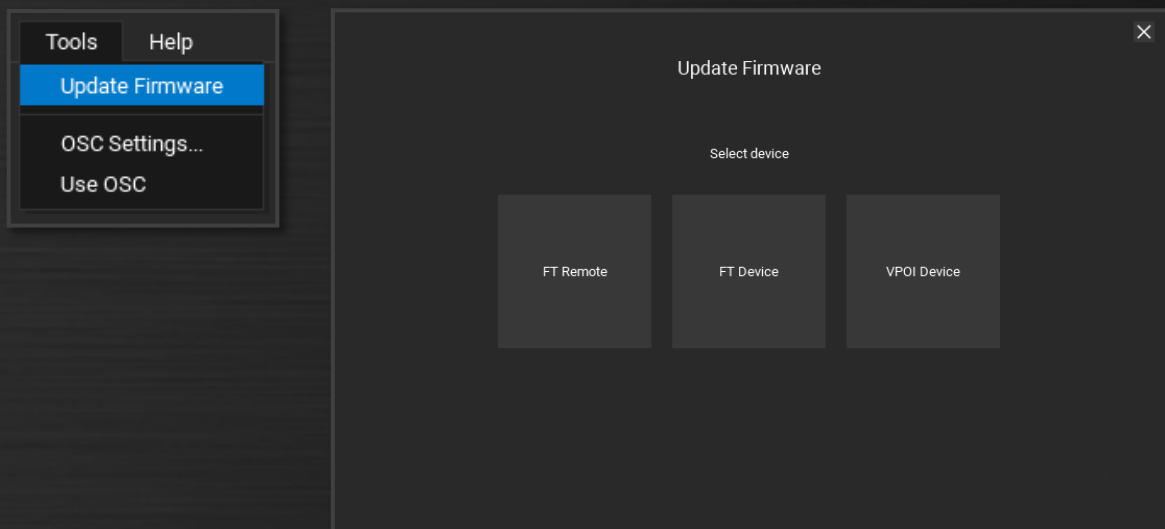
- FT remote controllers (FT remote, FT Remote PRO)
- FT devices (Zebra Poi FT, LED Fans FT, ...)
- Visual Poi V4 devices (Poi, Wand)
- FT2 devices (Visual Hoop, LED Club FT2, FT2 chip, ...)

## Before you start

1. Gather all FT remotes and Lighttoys props to be updated, **make sure the prop batteries are not depleted.**
2. Find a place with low 2.4GHz radio interference.
3. Launch the LtComposer software.

## Open the update assistant

To start updating your props, go to the top menu **“Tools”** and click on **“Update Firmware”**. A new window with device selection will pop up:



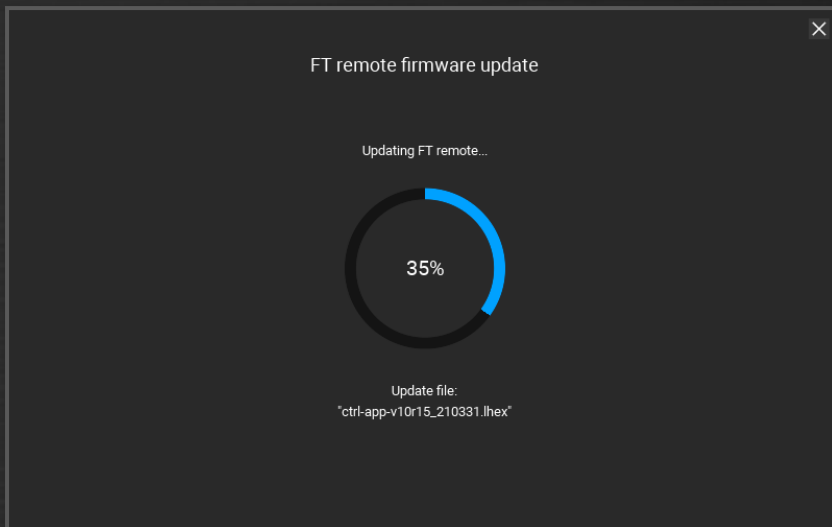
## Update FT remotes

First, update all your FT remote controllers one-by-one, by clicking on the **“FT Remote”** square button in the update assistant. Select, which type of Remote controller you want to update:

FT Remote  
FT Remote PRO

First, make sure the FT remote is turned on and attached to the computer with a USB cable. Then follow the onscreen instructions until you are finished.

Once the FT remote is detected, click the **“Update”** button to start the update process:



The FT remote is updated, once you see the **Status: SUCCESS** at the next screen.

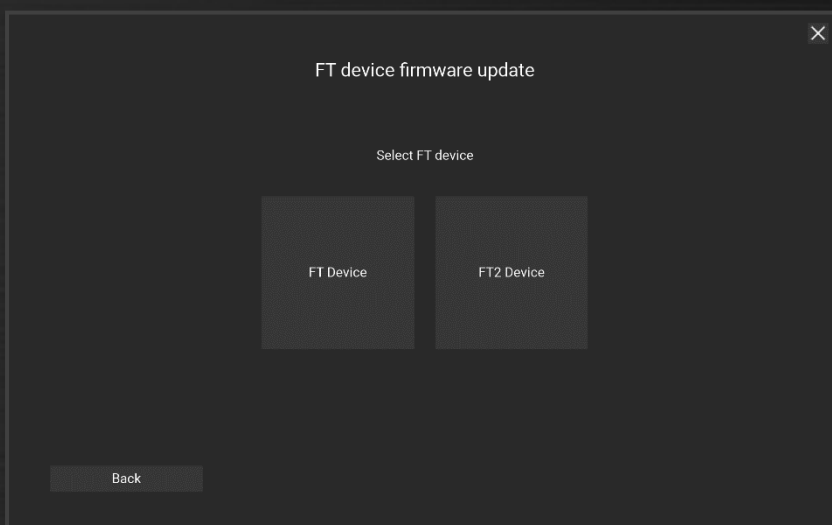
If the process fails for any reason, click the **Retry** button.

Unplug the FT remote and continue with the same steps with another FT remote, until all your FT remote controllers are updated.

## Update FT devices

To update all your FT and FT2 devices, click on the **"FT Device"** button in the update assistant. You will have the following 2 options to choose from:

- **FT Device**
- **FT2 Device**



Since the firmware files are different for each device, it is important that you select the correct button in this step:

Select the **“FT Device”** button for:

Zebra Poi FT  
Zebra Stick FT  
Fantastick FT  
Contastick FT  
LED Buugeng FT

LED Fans FT  
Moon Fans FT  
LED Club FT  
Omni Light RGB FT  
FT chip

Select the **“FT2 Device”** button for:

Visual Hoop  
LED Club FT2  
LED Buugeng FT2  
LED Cyr Wheel FT2  
FT2 chip

Follow the onscreen instructions to finish the update process of your FT device, you should see **Status: OK** at the end.

If you see **Status: FAILED**, the update procedure unfortunately failed. In that case press the button **Retry** until it finishes correctly. If it fails repeatedly, please check the [Frequently asked questions](#).

Continue the same way with the next FT device from your arsenal until all your FT devices are updated.

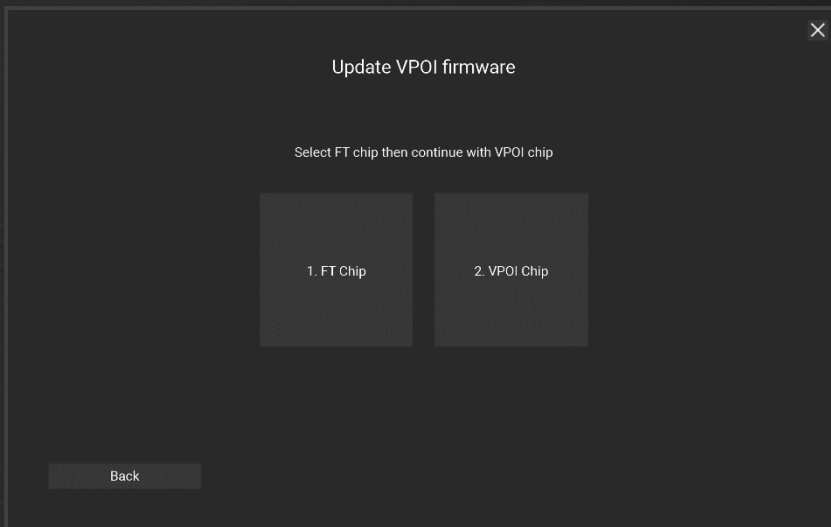
**Note:** the update can be a 2-step process, depending if the bootloader program is also out of date.

## Update Visual Poi devices

To update all your Visual Poi and Visual Wand devices, click on the **“VPOI Device”** button in the update assistant. You will see the following 2 options:

- **FT Chip**
- **VPOI Chip**

The update of Visual devices is a 2-step process, since Visual devices consist of 2 control chips – the FT Chip and the VPOI chip.



Start with the FT chip by clicking on the **“1. FT Chip”** button. Follow the instructions until you are finished. If the update fails, press the button **Retry** until it finishes correctly. If it fails repeatedly, please check the [Frequently asked questions](#).

Then select the **“2. VPOI Chip”** button on the same screen. Follow the instructions until you are finished. This Visual Poi device is now fully updated.

Continue the same way with the next Visual Poi device you own, do not forget to update both the **FT** and **VPOI** chip every time.

Congratulations! All your Lighttoys devices should be now running the latest firmware.

## Finishing steps

If you are updating from a very old firmware (early 2022), it is recommended that you perform the following clean up steps to ensure correct functionality:

### Reset the FT remotes

For each FT remote, turn it ON, attach it to the computer with a USB cable and launch LtComposer. Go to the **“Devices”** menu, select the FT remote in the list and click the button **“Reset”**.

Disconnect the FT remote from the computer and turn it OFF and ON again, to finish the reset procedure.



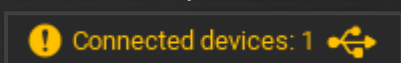
## Erase all shows

Connect the Lighttoys device to the LtComposer, make sure it is turned on and detected. In the Upload dialog click the **"Erase all"** button:

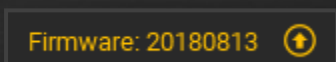


## Auto-detection of the old firmware

When you attach any Lighttoys device running an old firmware, LtComposer will automatically detect it and display it in the status bar in orange message:



Clicking on the message will bring you to the Devices menu, where you can see exactly which device needs to be updated, with a small arrow icon that brings up the update assistant automatically:



So, you do not need to worry about forgetting to update some of your devices, you will be notified about it the moment you attach them to LtComposer :)

## Frequently Asked Questions

**Question:** *"I followed the instructions exactly, but I see Status: FAILED at the end of the update process, repeatedly."*

**Answer:**

- 1) Turn OFF any nearby Bluetooth, WIFI or other FT devices.
- 2) Disconnect the FT remote from the USB cable, turn it OFF and ON, reconnect it. Turn OFF and ON the device being updated.
- 3) Move the FT remote really close to the location of the FT chip in the device (this is often next to the power button, or inside the LED head for staffs)
- 4) click the "Retry" button.
- 5) If still having trouble, try a different FT remote & USB cable & USB port
- 6) If still unsuccessful, try a different computer, move to a different location at different time of day.

**Question: *The device blinks green when turned on and doesn't react to user input or pairing.***

**Answer:**

The previous FW update process was not finished successfully. You need to perform the FW update again to use the device. Go to [Open the update assistant](#) chapter and follow the instructions. (Note: device does not need to be paired to FT remote to make FW update).

**Question: *"After a successful update, the first time I turn on the prop, it behaves strangely."***

**Answer:**

During the first start, the internal configuration of the FT device might be migrated from an older format to a newer one. Turn the FT device OFF and ON again, the behavior should be back to normal.

**Question: *"Can I use Lighttoys props with different firmware versions together?"***

**Answer:**

Different firmware versions might work together, but they were untested by the Lighttoys team. To enjoy a trouble-free experience, please always update all your Lighttoys props.

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

