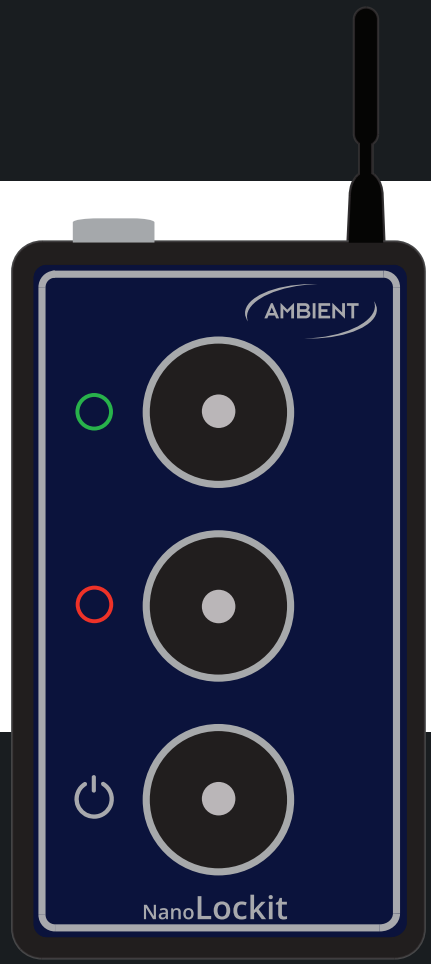
AMBIENT

QUICK START **GUIDE**

NanoLockit



Explanation

Lemo Connector:
TC (and metadata)
interface

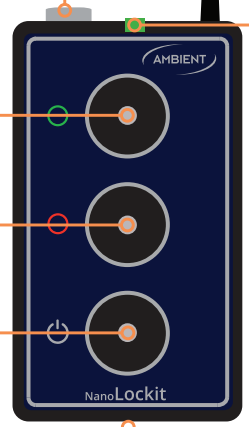
ACN Antenna:
for wireless sync
with other Lockits

Status LED

Green Button

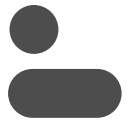
Red Button

Power Button



Micro USB:
charge and
external power

Charge time / operation:
15 min / 5 hrs
30 min / 10 hrs
2 hrs / 35 hrs (full)



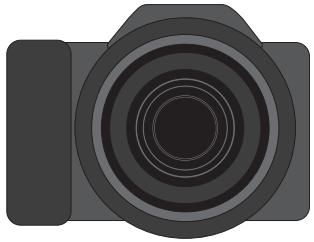
Status LED Codes	1 sec	2 sec
ext. power, idle, charging		
ext. power, idle, fully charged		
int. power, lo bat		
Generator Mode:		
idle, no TC out, RTC lost		
idle, no TC out, RTC OK		
generator set, TC out		
generator set, TC out, lo bat		
generator set, TC level reduced		
TRX Mode:		
idle, no TC on input or ACN		
TX (LTC/MTC via cable)		
RX (LTC/MTC over ACN)		

ca. 30 min left

The goal: syncing timecode (TC) and frame rate (FPS).

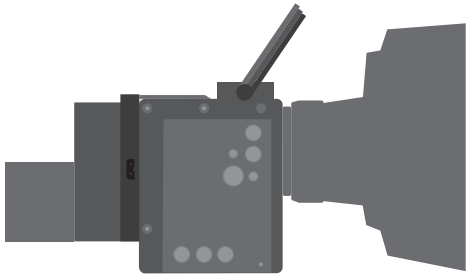
Audio Recorder

TC 01:23:45:12



DSLR Camera

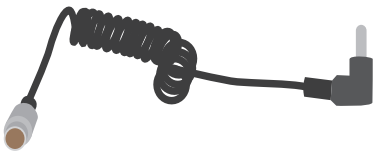
TC 01:23:45:12



Film Camera

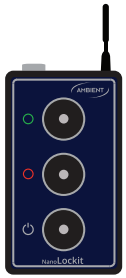
TC 01:23:45:12

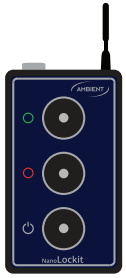
Timecode Cable*



TC-IO-35RA (included)

Timecode Cable*





*NOTE:
The specific cable required is dependent on the connected device. The most common cables are:

- TC-IO-35RA
- TC-IO
- LTC-Out
- LTC-Out/Epic

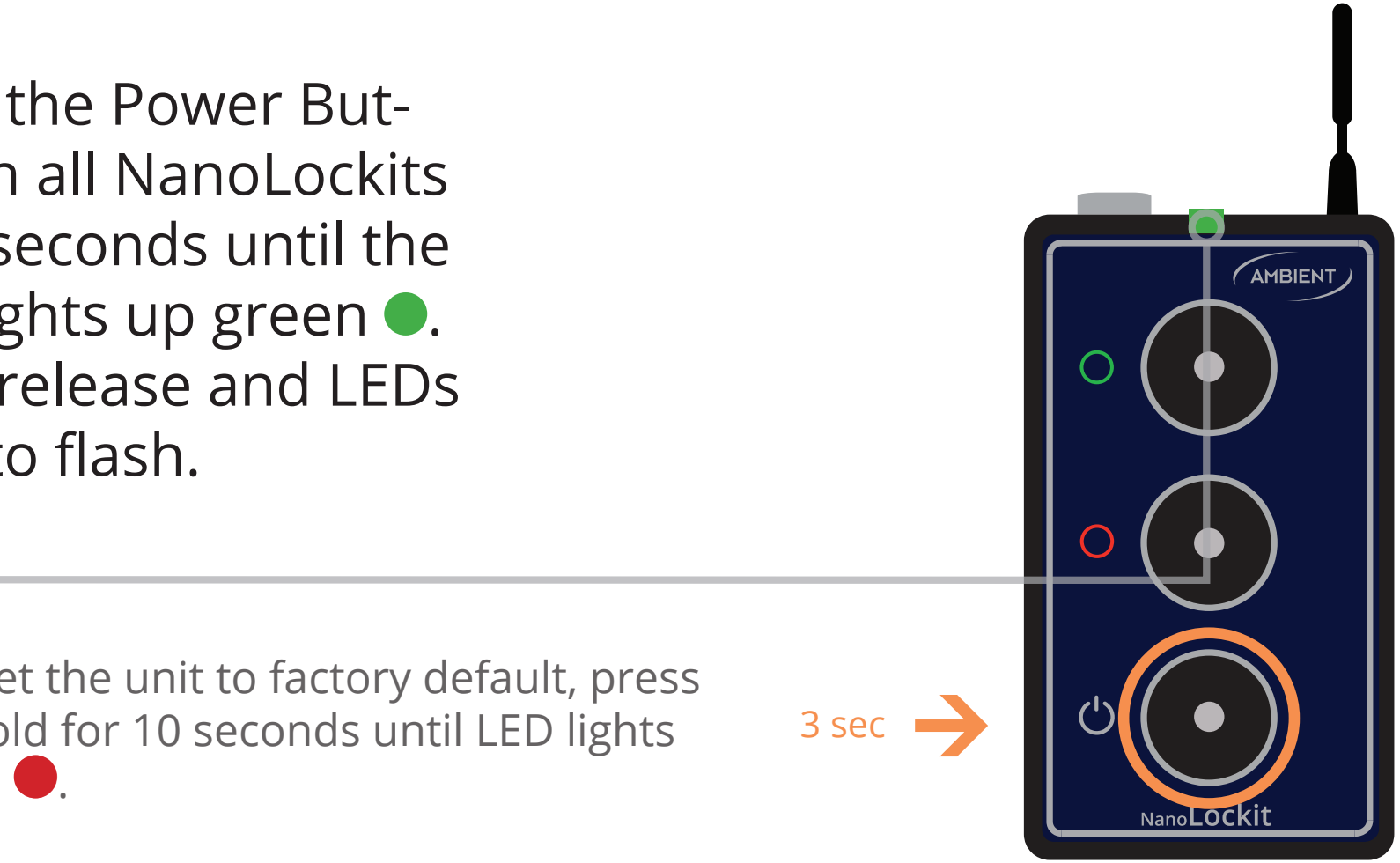
Please check our website.

Turn on all NanoLockits

1

Press the Power Button on all NanoLockits for 3 seconds until the LED lights up green 🟢. Then release and LEDs start to flash.

NOTE:
To reset the unit to factory default, press and hold for 10 seconds until LED lights up red 🔴.



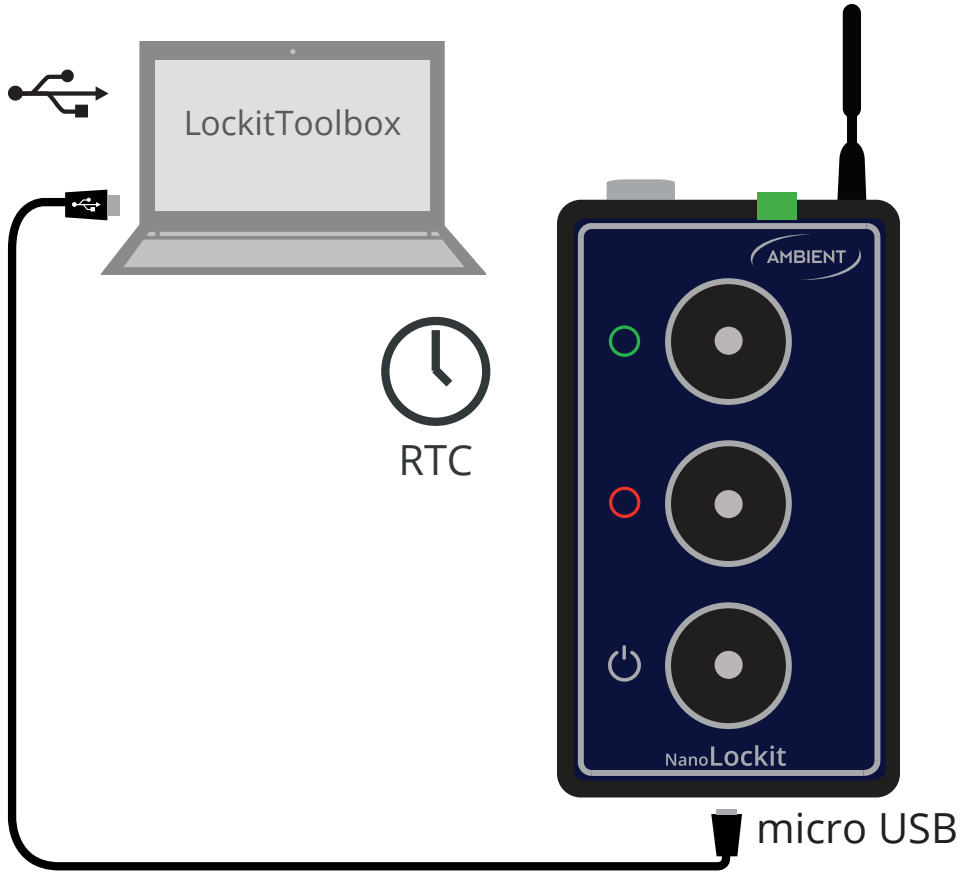
The NanoLockit always starts with its Real Time Clock (RTC) at last frame rate or at default 25 FPS with output muted.

To activate the LEMO Output while jamming other Lockits with this timecode and frame rate, proceed with step **3.**

To adjust the RTC and frame rate, proceed with step **2A.** To jam from an external device, proceed with step **2B.**

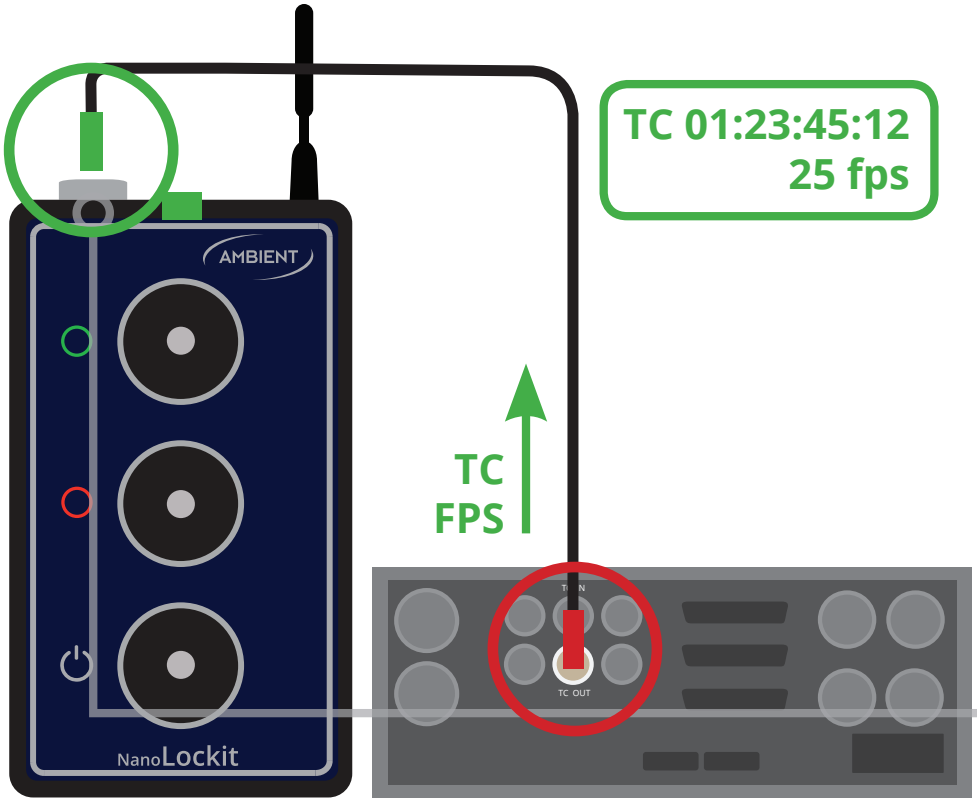
2A

To set the RTC and the frame rate, use the LockitToolbox software (PC and Mac, available at nanolockit.com).



NOTE:
On start a valid RTC will be indicated by LEDs flashing red/ green 🔴🟢, a lost RTC by flashing red 🔴.

2B

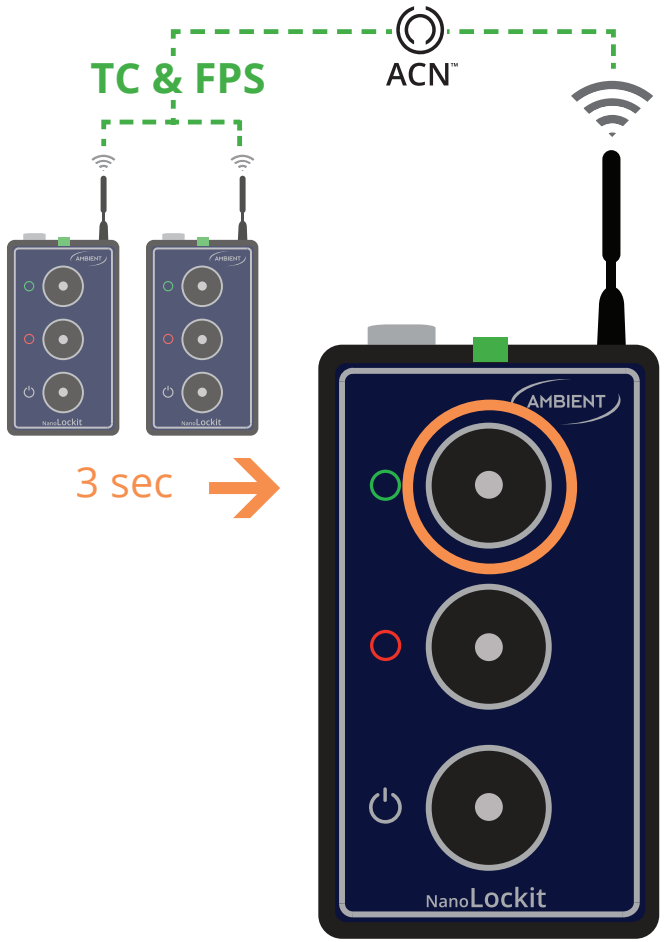


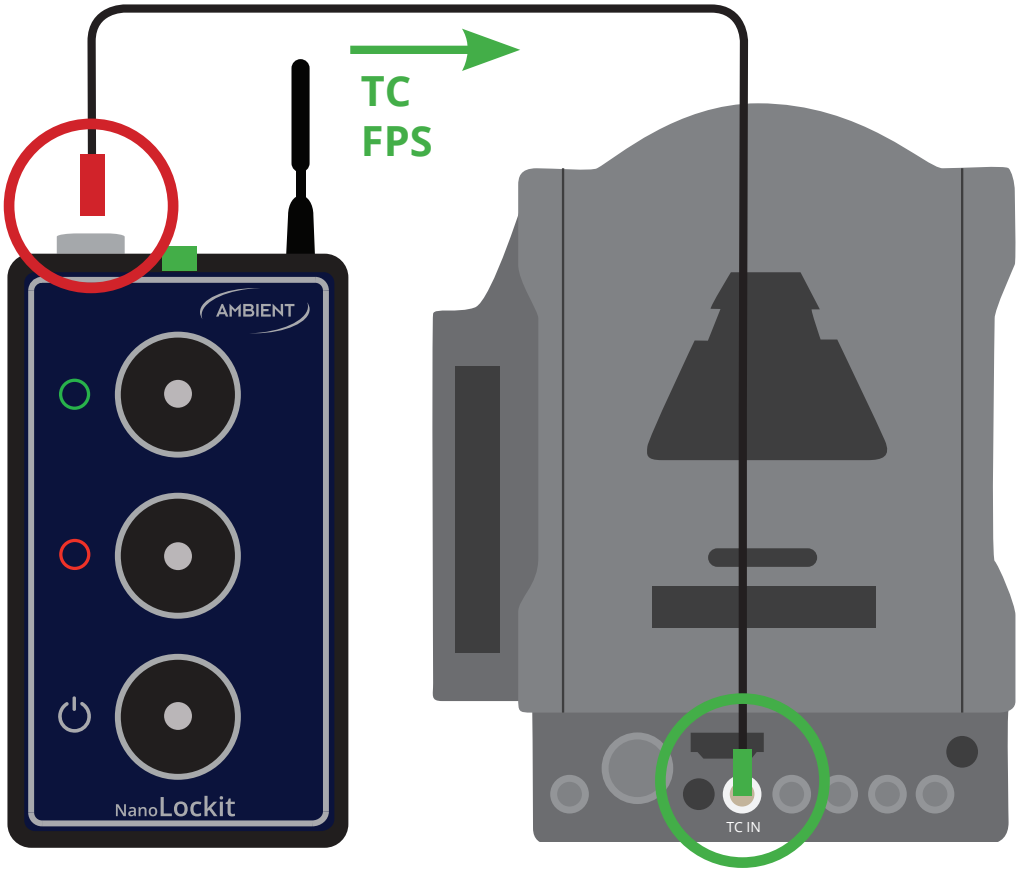
To jam your NanoLockit from an external device, connect them with the appropriate timecode cable. If succesful, the LED will flash green ● ●. Finish by disconnecting the cable.

External jamming sets the TC and FPS while activating the LEMO output.

3

Press the Green Button for 3 seconds until LED double blinks green: 🟢🟢.
This sets the TC and FPS, wirelessly syncs all other NanoLockits, and activates all LEMO outputs. If successful, all units will flash green 🟢 in sync.





4A

Option A

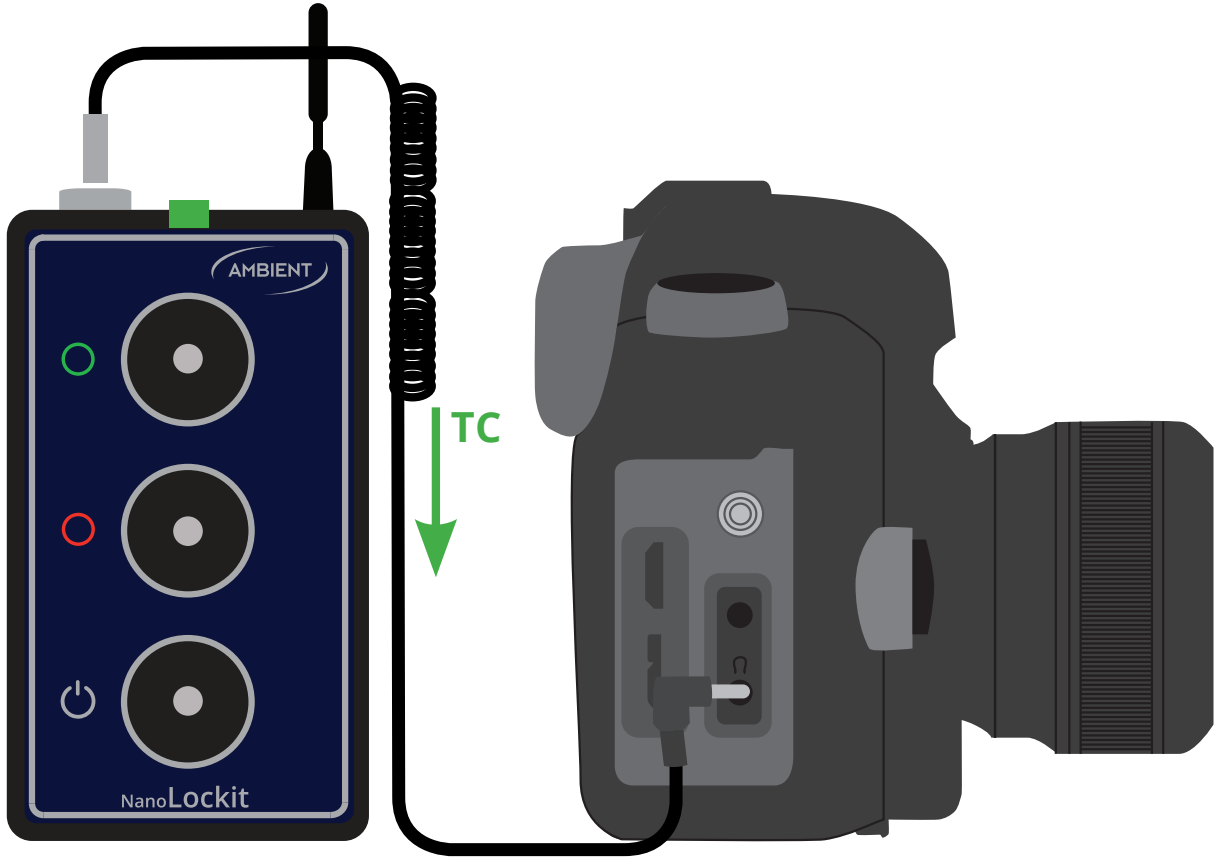
Device with timecode interface: connect NanoLockit to TC Input.

NOTE:
Adjust the device menu settings to accept external time-code. Please check the manufacturer's manual.

4B

Option B

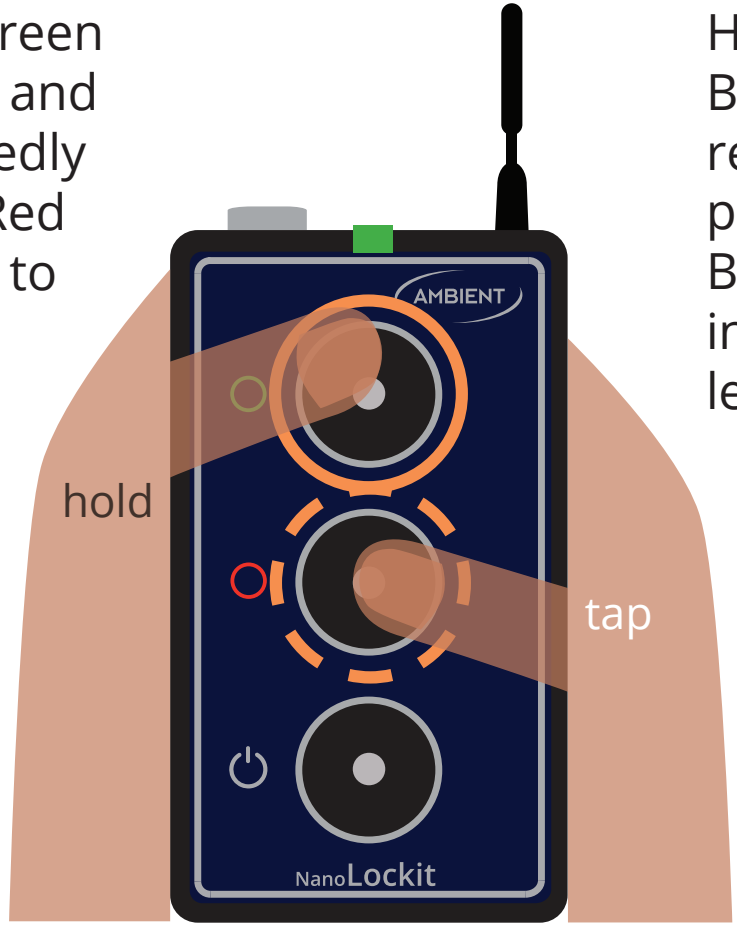
DSLR & cameras without timecode interface: connect NanoLockit with audio input. TC signal will be written on audio track.



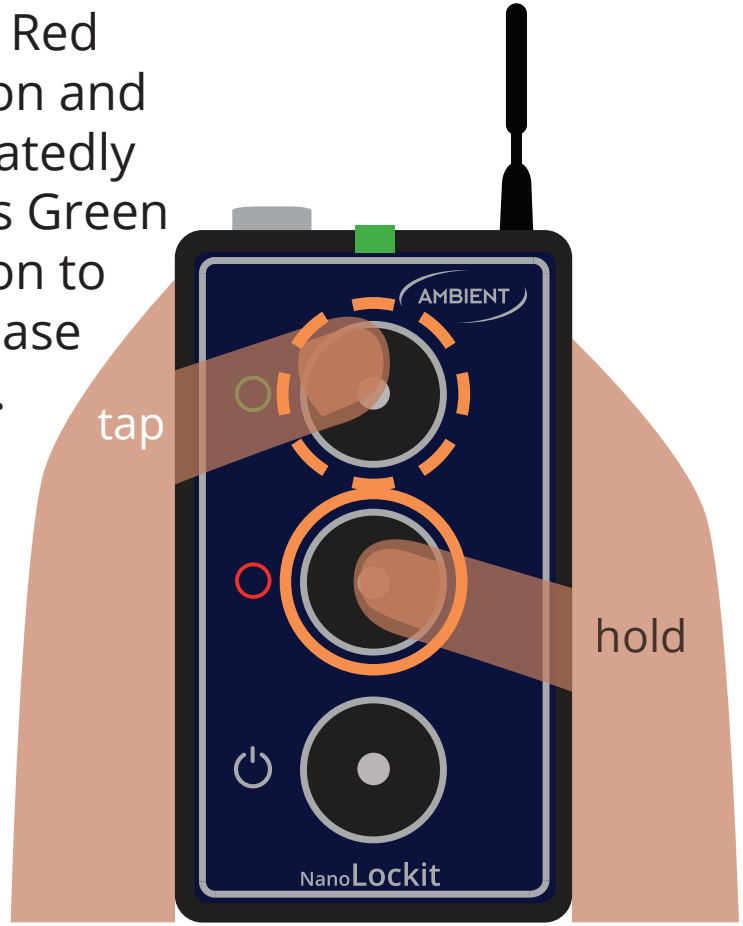
Track levels must be set correctly:

1. Manually set the camera audio input level to 50% of the range.
2. Adjust the NanoLockit TC output level so the meter falls between –30 dB to –20 dB.

Hold Green Button and repeatedly press Red Button to reduce level.

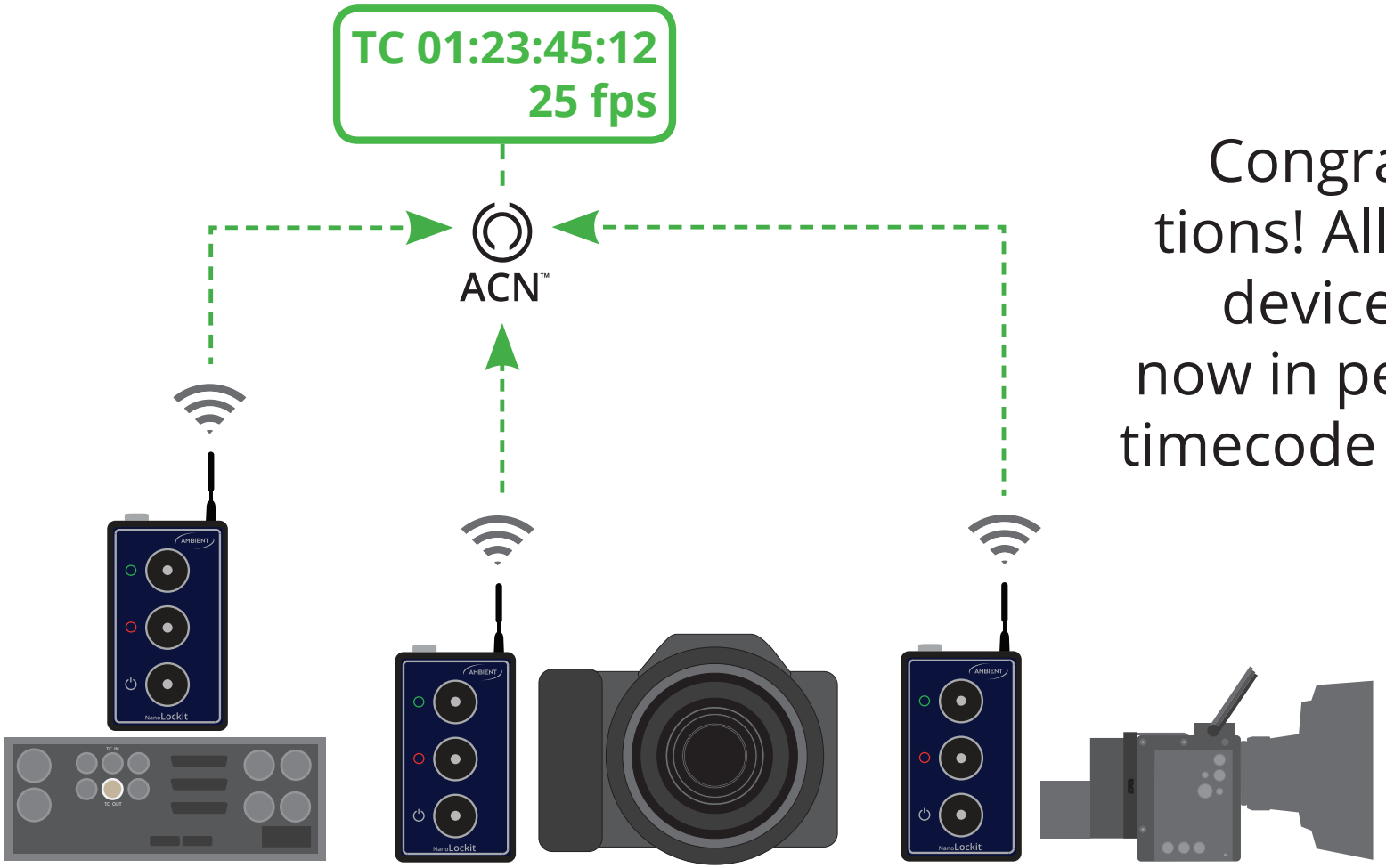


Hold Red Button and repeatedly press Green Button to increase level.



5

Congratulations! All your devices are now in perfect timecode sync.

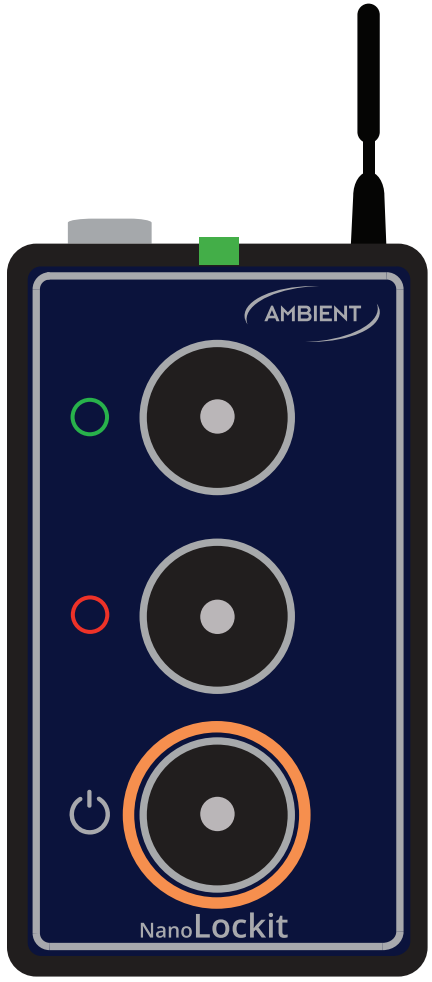


6

To power down a NanoLockit, press and hold the Power Button for 5 seconds.

NOTE:
Power down your NanoLockit manually after charging / supplying with external power to avoid battery drain when not in use.

5 sec



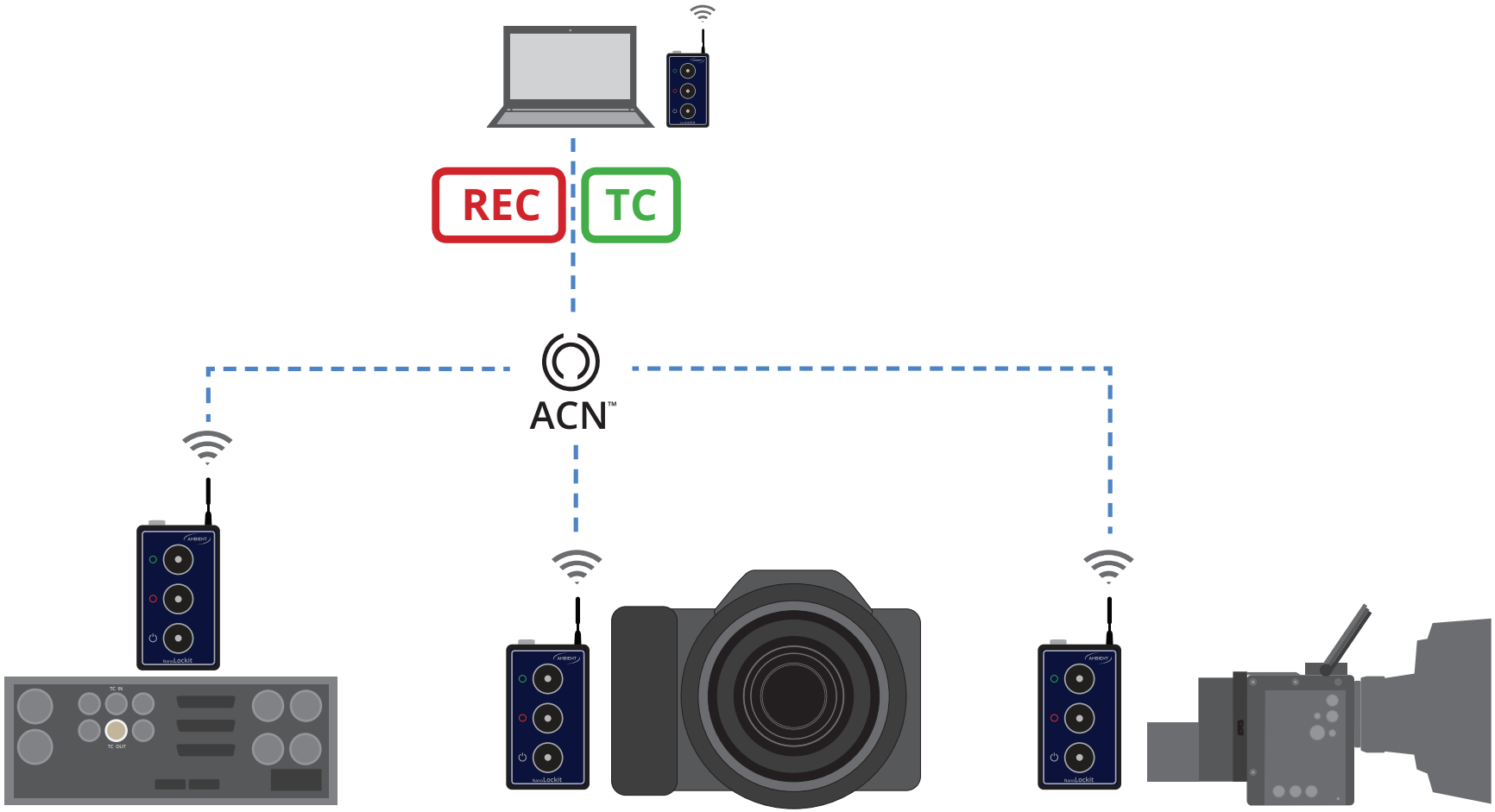
SPECIAL: TRX MODE

Sending prerecorded timecode to slates and remotely start/stop recorders via external timecode:

In this mode, an external timecode source must be permanently connected to one NanoLockit (via TC input or MIDI USB).

This NanoLockit will send the externally generated timecode to the other Lockits.

NOTE:
If source timecode stops, the receivers will also stop their TC output.
If the source TC stands still, the receivers will output standing timecode.


REC
TC
ACN™
Audio Recorder
DSLR Camera
Film Camera

SPECIAL: TRX MODE

You need to power NanoLockits in a different way to use them in TRX mode: Press the Red Button for 3 seconds and “confirm” with a single tap on the Power Button.

The units will now blink in TRX idle mode .

INSTALLATION SUCCESSFUL!

Learn more about the NanoLockit and watch helpful tutorials at nanolockit.com and ambient.de/university.