NanoLockit

QUICK START GUIDE

AMBIENT

Status LED

ACN Antenna:
for wireless sync with other Lockits

Lemo Connector:
TC (and metadata) interface

Green Button

Red Button

Power Button

Micro USB:
charge and external power

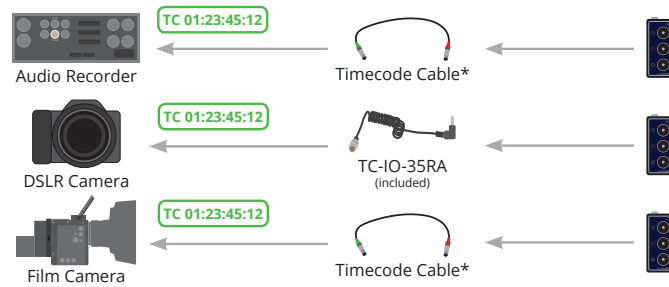| Charge time	Operation
15 min	5 hrs
30 min	10 hrs
2 hrs	35 hrs (full)
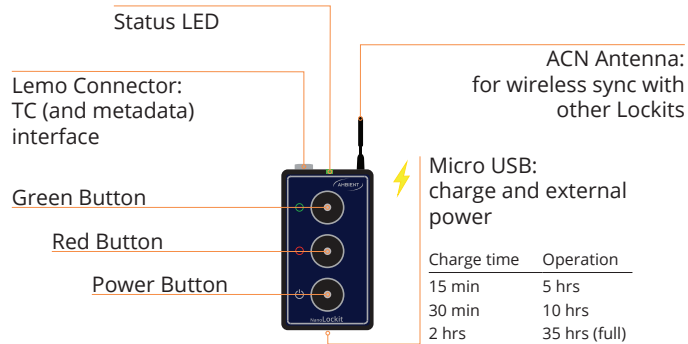
LED status overview

● short
▬ long

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

*ca. 30 min left

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

TC 01:23:45:12

Audio Recorder — Timecode Cable*

TC 01:23:45:12

DSLR Camera — TC-IO-35RA (included)

TC 01:23:45:12

Film Camera — 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.

1 Turn on all NanoLockits

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

3 sec →

NOTE: To reset the unit to factory default, start by holding the Power Button for 10 seconds until LED lights up red ●.

The NanoLockit starts up with muted output at last selected frame rate (default 25 fps).

To activate the LEMO Output and to jam other Lockits with the internal Real Time Clock (RTC), 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**.

T̶C̶
F̶P̶S̶

12:45:12:02
25 fps

2A Set the internal clock of the NanoLockit

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

LockitToolbox

RTC

micro USB

NOTE: On start a valid RTC will be indicated by LEDs flashing red/green ●●, a lost RTC by flashing red ●.
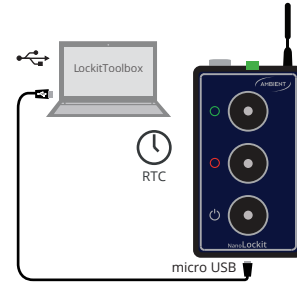
2B Set the internal clock of the NanoLockit

To jam your NanoLockit from an external device, connect it with the appropriate timecode cable. If successful, the LED will flash green ●●. Finish by disconnecting the cable.
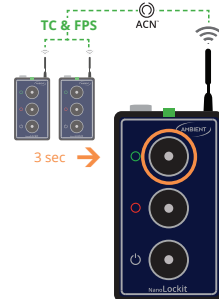
TC 01:23:45:12
25 fps

TC
FPS

External jamming sets the TC and FPS while activating the LEMO output.
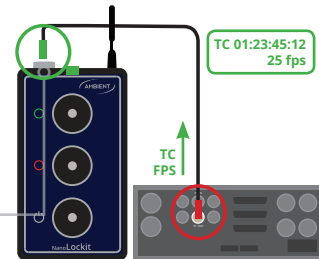
3 Set and jam from internal RTC

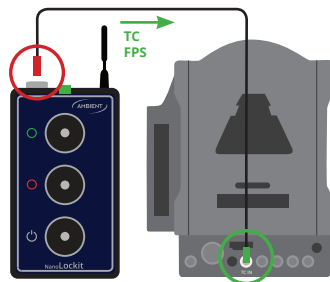Press the Green Button for 3 seconds until LED double blinks green: ▬ ▬.

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.

TC & FPS
ACN

3 sec →

4A Sync your devices

Option A
Device with timecode interface: connect NanoLockit to TC Input.

TC FPS

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

4B Sync your devices

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

TC

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

AMBIENT

▶ www.nanolockit.com/guide ◀

Setting the TC audio level

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.
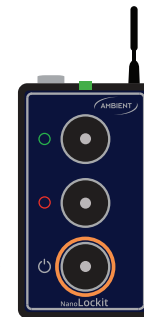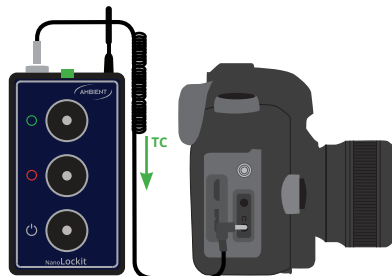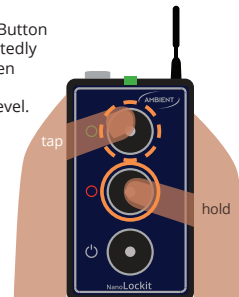
Sound recording
Sound rec.   Manual
Rec. level
Wind filter   Disable
– dB 40   0
L
R

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

hold

tap

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

tap

hold

5 Final setup

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

TC 01:23:45:12
25 fps

ACN

Audio Recorder   DSLR Camera   Film Camera

Switch off

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

5 sec

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

SPECIAL TRX Mode

For sending a prerecorded timecode to slates or remotely start/stop recorders via external record run timecode.

To use your NanoLockits in this special mode start them by holding the Red Button while "confirming" with a single tap on the Power Button. The units will switch to ACN channel 11 and blink in TRX idle mode 🔴 🔴.
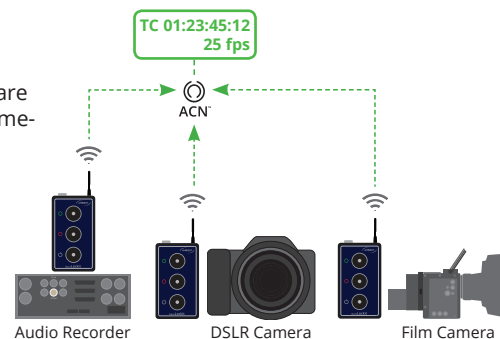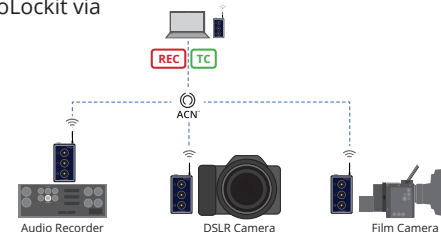
hold   3 sec

tap

Timecode from an external source can now be sent from one device to other devices. This external source must be permanently connected to this NanoLockit via TC input or MIDI USB.

The NanoLockits will now automatically start and stop their generators along with the source.

REC   TC

ACN

Audio Recorder   DSLR Camera   Film Camera

NOTE: Source timecode and Lockits are not synchronized, this may lead to drift between source and receivers on long takes. Do not use for standard sync situations.