DEITY®
MICROPHONES

Smart Slate TC-SL1

Product Manual

English

Foreword

Thank you for purchasing the Deity Smart Slate TC-SL1.

Instructions

- Please read this product manual carefully.
- Keep this product manual. Always include this product manual when passing the products on to third parties.
- Heed all warnings and follow all instructions in this product manual.

  WARNING: Do not place the product near any corrosive chemicals. Corrosion may cause the product to malfunction.
- Only use a microfiber or dry cloth to clean the product.
- Operate carefully - dropping or hitting the product may cause damage.
- Keep all liquids away from the product. Liquids entering the product can short-circuit the electronics or damage the mechanics.
- Store the product in a dry, clean, dust-free environment.
- If your product malfunctions, please have it serviced by an authorized shop. The warranty does not cover repairs to devices that have been subjected to unauthorized disassembly, although you may request such repairs on a chargeable basis.
- The product is certified by RoHS, CE, FCC, KC and Japan MIC. Please adhere to the operation standards. The warranty does not cover repairs arising out of the misuse of the product, although you may request such repairs on a chargeable basis.
- The instructions and information in this manual are based on thorough, controlled company testing procedures. Further notice will not be given if the design and specifications change.

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and(2) This device must accept any interference received, including interference that may cause undesired operation.
Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance separating the equipment and receiver.
- Connect the device to a different power supply than that which the receiver is connected to.
- Consult the dealer or an experienced radio/TV technician for help.

RF warning statement:

The device has been evaluated to meet general RF exposure requirements. The device can be used in portable exposure condition without restriction.

Intended Use

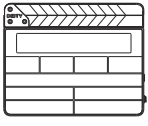
Intended use of the Deity Smart Slate TC-SL1 includes:

- The user has read the instructions of this manual.
- The user is using the products within the operating conditions and limitations described in this product manual.
- "Improper use" means using the products other than as described in these instructions or under operating conditions which differ from those described herein.

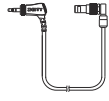
Packing List

Package includes the following items:

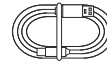
1. Smart Slate TC-SL1 （Global）



TC-SL1
(1 pc)



3.5mm Locking TRS to 5P
Timecode Cable (1 pc)



USB-C Charging Cable
(1 pc)

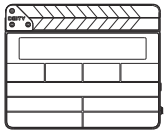
Erasable Marker
(1 pc)

USB-C to USB-A
Firmware Update
Adapter (1 pc)

FB-NP-F550-DT
Rechargeable Battery (2 pcs)

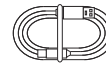
Soft Case
(1 pc)

2. Smart Slate TC-SL1 （EU）



TC-SL1
(1 pc)

3.5mm Locking TRS to
6.35mm Timecode Cable (1 pc)



USB-C Charging Cable
(1 pc)

Erasable Marker
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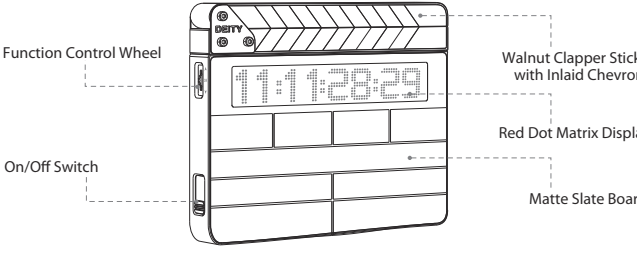
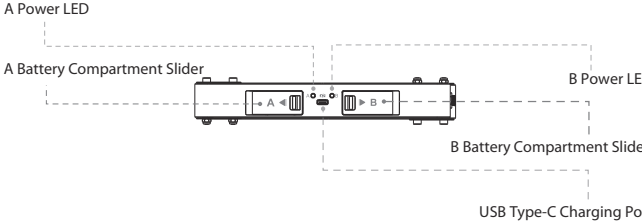
USB-C to USB-A
Firmware Update
Adapter (1 pc)

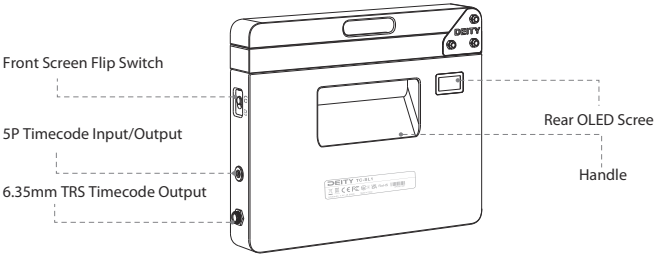
FB-NP-F550-DT
Rechargeable Battery (2 pcs)

Soft Case
(1 pc)

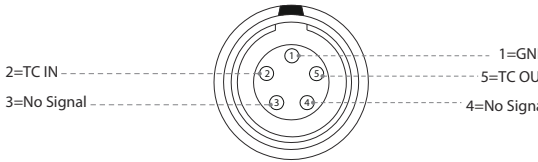
Nomenclature





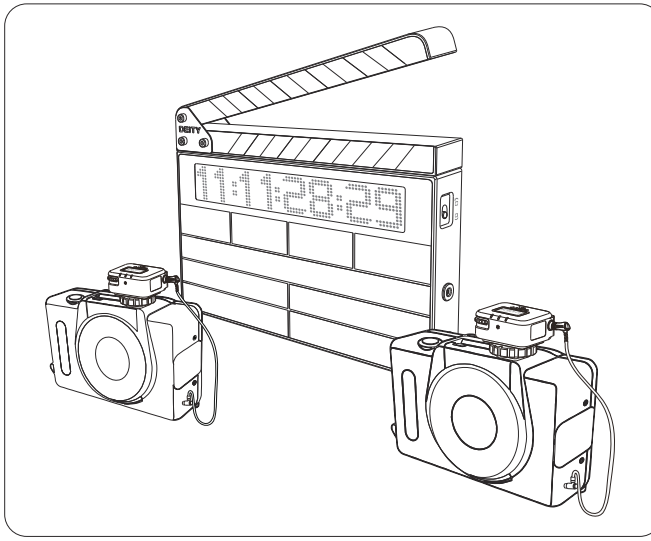


** 5-PIN Connector Pin Assignment*:



Deity Timecode Family

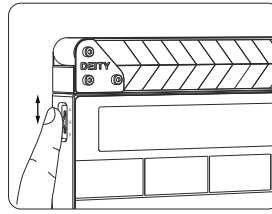
TC-1 and TC-SL1 form a highly accurate Deity timecode system . It can easily and intuitively synchronizes cameras and audio recorders, making the alignment of captured material a one-click operation. The most eye-catching device is the TC-SL1. It is primarily used to facilitate timecode workflow in music video and narrative film productions but also serves as a backup visual reference. This workflow is the quickest and most cost-effective because it allows you to focus on the creative tasks involved in post-production.



Functions and Operations

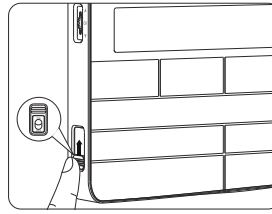
1. Function Control Wheel

Rotate the wheel back and forth to select various options and short-press the function control wheel to enter the selected highlighted item. Long-press the function control wheel to return to the previous screen or menu item.



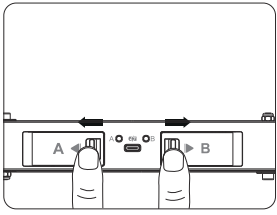
2. On/Off Switch

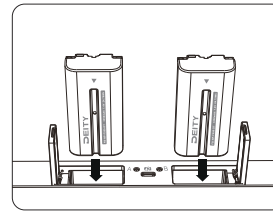
Slide the switch cover up, toggle the switch up/down to turn the TC-SL1 on/off.



3. A/B Battery Compartment Slider

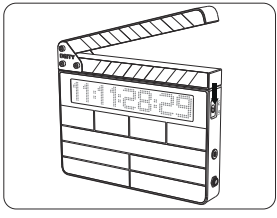
Unlock the battery compartment slider and the battery will pop out. Insert batteries, close the cover and push it down to secure it.

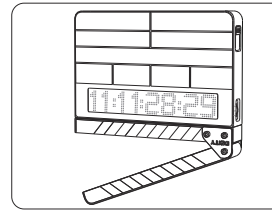




4. Front Screen Flip Switch

Toggle the front screen flip switch up and the display will rotate 180 °, allowing you to slate upside down for a tail slate.





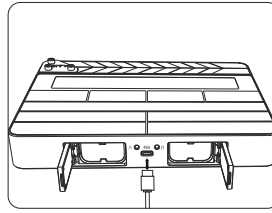
5. Charging

The TC-SL1 features dual NP-F battery bays. Install two FB-NP-F550-DT Rechargeable Batteries. The TC-SL1 is designed so you can hot-swap the two included NP-F550 rechargeable batteries without having to power down your smart slate. The batteries are charged using the included Type-C charging cable connected to a DC adapter (not included).

TC-SL1 supports PD3.0/QC2.0/FCP/AFC quick charging protocols. It is suggested to use the charger with 15V ⎓ 2A output to experience the fastest charging.

**The power LED glows green when the battery is in the clear.*
** The color changes to red when there is about less than 20% battery life left.*
** When charging, the power LED will flash between red and green.*
** When fully charged, the power LED stays green.*

Charging at temperatures below 10 degrees will cause damage to the battery.
The battery is replaceable if performance has declined after years of use.



6. OLED Display Overview

Lock/ Unlock

Mode:
Master Run
Auto Jam
Jam Once And Lock

FPS

Channel:
A group~
H group

TC:
SYNC
SET
EXT
OFFSET

BT:
ON
OFF
Reset

General Settings:
DID (Deity ID)
BRIGHTNESS
REAR SCREEN
SYS RESET
FIRMWARE
UPDATE

7. Lock/Unlock Setting

Enter the Lock/Unlock option in the main interface and you can select "LOCK" to lock the rear screen immediately. When the rear screen is locked, the buttons will not work. This helps to prevent settings from changing during operation. Select "AUTO" to follow the previous screen locking setting.
You can unlock the screen by short-pressing the Function Control Wheel. A unlock window pops out and select yes to unlock the rear screen.

Display the clapped timecode on last closed slate

8. TC-SL1 Mode Selection

Rotate the function control wheel to select the mode and short-press to select the desired working mode. There are three options:

** The three working modes below can output timecode to other devices. The system default mode is Master Run.*

Master Run:
In this mode your TC-SL1 wirelessly outputs timecode to other TC-1 or TC-SL1 units in the same group in either Auto Jam mode or Jam Once And Lock mode. It can also be jam-synced via a 3.5mm cable. It is suggested to use Deity timecode cables: C13, C14 or spare part 6.35mm TRS to 3.5mm TRS cable

Auto Jam:
In this mode your TC-SL1 waits to be jam-synced by an external timecode source.

Jam Once And Lock:
In this mode your TC-SL1 locks after being synced once. The mode changes from Jam1 to JMD. The TC-SL1 will then not follow any commands from master TC-SL1. You will need to change the mode to unlock or control TC-SL1 through Sidus Audio™ App.

9. FPS Setting

Select "FPS " and you can set the frame rate for timecode as 23.98, 24, 25, 29.97, 29.97DF, 30. DF stands for drop frame. The system default frame rate is 25. We recommend setting a suitable frame rate in advance so the TC-SL1 can feed each recording device with timecode.

10. Channel Setting

If you don't have a mobile device at hand, you can synchronize TC-SL1 units with each other via wireless sync technology if they have the same channel setting. The system default channel is group A.

11. TC Setting

When the TC-SL1 working mode is set to "Master Run," there are four options for TC setting:

SYNC: Feed timecode to other devices.

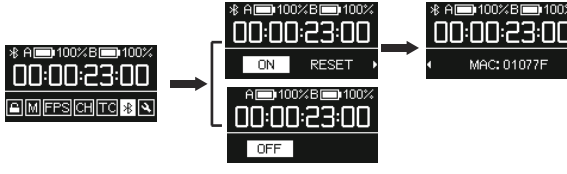
SET: Feed timecode to other devices starting from 00:00:00:00 or any custom timecode starting point.

EXT: TC-SL1 can detect and be jam-synced by an external timecode source through the 5P timecode input jack.

OFFSET: Shifts the TC output up to +/- 10 frames in .1 increments on only front display on TC-SL1 against the generator. This allows for compensation of frame processing delay on TC-SL1 against cameras and TC offset to 3rd party equipment.

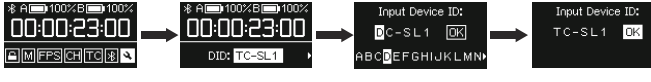
12. BT setting

Select BT symbol and you can turn the Bluetooth function on/off. Bluetooth is activated by default. Select RESET and YES to reset the Bluetooth. The “SUCCESS” message indicates that the reset is complete.
Rotate the function control wheel , to view the MAC address of your TC-SL1.



13. General Settings

(1) Enter the "DID" option in General Settings to set a new device name by simply short-pressing the control wheel. Choosing different names for your TC-SL1 will help to better identify different TC-SL1 units in the monitoring screen of the Sidus Audio™ App.



(2) Enter the “BRIGHTNESS” option in the General Settings menu to set the brightness of red lattice screen and backlight of slate board sticker until desired level. Select “UP” to adjust the brightness of red lattice screen and “DOWN” to change the brightness level of backlight of slate board sticker.
(system default “UP” and “DOWN” as level 3). There are seven options for DOWN option : 0, 1, 2, 3,4,5,6. And there are six options for UP option: 1, 2, 3,4,5,6 . After first use, TC-SL1 will boot with your last brightness level setting.

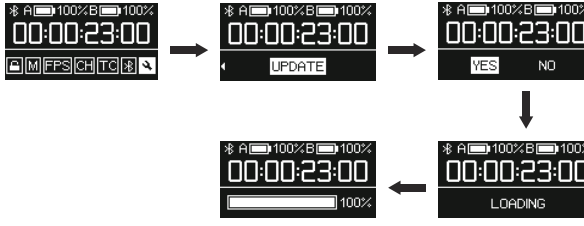
(3) Enter the “REAR SCREEN” option in the General Settings menu to set the lock screen time (system default 15s). The are four options: Never, 15s, 30s, 60s. After first use, TC-SL1 will boot with your last screen lock setting.

(4) Enter “SYS RESET” option in the menu to reset the system and restore the default settings.

(5) Enter “FIRMWARE” option to see which FW version your TC-SL1 is running.

(6) Firmware Update
You can update the firmware with a U disk (exFat/Fat32 USB flash drive). Download the latest update from our website. Place the Firmware in the root directory of the U disk. Use the "USB-C to USB-A Firmware Update Adapter" to connect the U disk to the USB-C input port , select "UPDATE" option from menu, and update the firmware following the on-screen instructions. After the firmware update is completed, the updating process bar goes to 100% and TC-SL1 automatically restarts. The firmware version will reflect the update and you can enter FIRMWARE in the General Settings menu to check.

** TC-SL1 also supports firmware update via Sidus Audio™ OTA process.*



14. Setup Sidus Audio™ App for iOS & Android

You can download the Sidus Audio™ app from the iOS App Store or Google Play Store for enhancing the functionality of the TC-SL1. Please visit https://www.sidus.link/support/helpcenter for more details regarding how to use the app to control your Deity Smart Slate TC-SL1.

** The Setup Sidus Audio™ App will need to communicate with your TC-SL1 devices via Bluetooth. Make sure Bluetooth is activated on your mobile device. You must grant the app the necessary permissions as well. The Android version also asks for a location permission. This is only needed to receive Bluetooth data from your TC-SL1. The App does not use or store your current location data in any way.*

Get Sidus Audio™ App

sidus.link/support/helpcenter

15. Timecode Synchronization

TC-SL1 uses a precision oscillator that generates timecode with a high degree of accuracy (approximately less than 1 frames per 48 hours). You can also use the TC-SL1 as timecode source. We recommend to feed every recording device with the timecode from a TC-SL1 to ensure frame accuracy for the entire production.

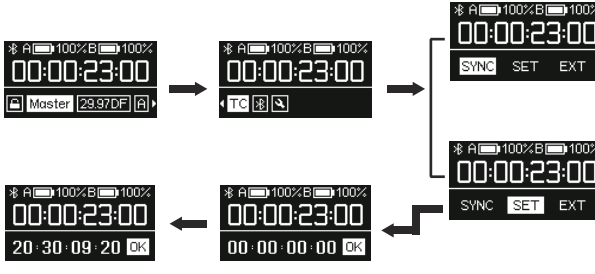
**Even after powering down the TC-SL1, timecode will continue running for 6 hours.*

(1) Cable Sync

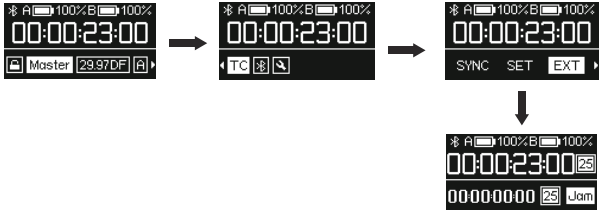
You can use the included 5P Timecode Cable (excluding the European version) or a suitable adapter cable to Jam the TC-SL1 to an external timecode. Follow the steps below : Set TC-SL1 mode to Auto Jam or Jam Once And Lock . When connected to 5P timecode cable, TC-SL1 automatically detects and takes over incoming frame rate and timecode immediately on jam-sync.

(2) Wireless Master Sync

If you don't have a mobile device at hand, you can synchronize TC-SL1 unit with each other or TC-1 via wireless master sync.
Start one TC-SL1 in Master Run mode and all other TC-1 and TC-SL1 units in Auto Jam or Jam Once And Lock mode. Set all units to the same channel (A group, for instance). Enter the master unit's TC setting , and select SYNC to perform the wireless master sync using the timecode that master TC-1 is running. All units will synchronize within a few seconds. You also can select SET to synchronize timecode starting out from 00:00:00:00 or custom starting point.



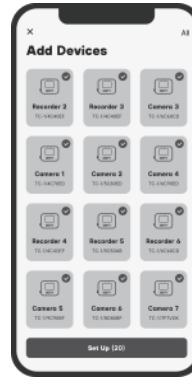
Note: During Master Run mode, TC-SL1 also can be jam-synced by an external timecode source or other TC-1 via the 5P cable. Set TC-SL1 mode to Master Run mode, enter TC setting, select EXT option and TC-SL1 will detect the external timecode and frame rate automatically. Press the function control wheel to select Jam and synchronize to an external timecode source.



3) Wireless Sync via Sidus Audio™

The Sidus Audio™ App for the TC-SL1 allows you to wirelessly sync a number of TC-SL1s with each other via Bluetooth. (Tested with more than 20 units). You can synchronize, monitor, set up, perform firmware updates and change basic parameters of your TC-SL1 via Sidus Audio™ . This includes settings such as timecode, frame rate, device name, TOD (Time of Day) timecode and more. Sidus Audio™ communicates with your TC-SL1 via Bluetooth. Make sure Bluetooth is activated on your mobile device and TC-SL1. To perform the wireless sync, just open Sidus Audio™ on mobile device and add all TC-SL1 units to the monitoring list. In that list you will find the button Set. Before wireless sync it is recommended to use the DID to set individual device names to better identify TC-SL1 units. Tap Set Up and a window will pop up with a Sync All option. This will synchronize all TC-SL1 units to the ”master” TC-SL1 timecode or TOD timecode it fetches from mobile device.

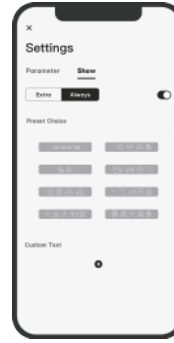
· Tap on SYNC for each TC-SL1 to synchronize to this “ master ” TC-SL1 individual.



You can download the detailed user manual of Sidus Audio™ here https://m.sidus.link/support/sidusAudio/index.

16. Show Extras/Always Features on Clap

The Sidus Audio™ App allows you to define the slate displaying on clap. Successively apply 0.2 to 5 seconds for FPS, User Bit, Clapped TC and other customized text and preset pictures.



Specifications

Smart Slate TC-SL1	
Timecode	SMPTE
Wireless Type	2.4G RF & Bluetooth
Display Type	0.96″ OLED Display
Battery Type	FB-NP-F550-DT Rechargeable Battery *2 pcs
Battery Capacity	3350mAh *2
Battery Charger	USB-C Quick Charging (A full charge takes less than 3 hours by using the charger with 15V⎓2A output)
Timecode Accuracy	+/-0.5PPM
TC-SL1 Net Weight	1130 g
TC-SL1 Dimensions	233*185*41mm
Temperature Range	–20 °C to +45 °C

Tips: The illustrations in the manual are only diagrams for reference （Apply to SV: 1.1 version). Due to the continuous development of new versions of the product, if there are any differences between the product and the user manual diagrams, please refer to the product itself.

DEITY MICROPHONES

Inspection: Qualified

Add: F/3, Building 21, Longjun Industrial Estate, Heping West Road, Shenzhen, Guangdong