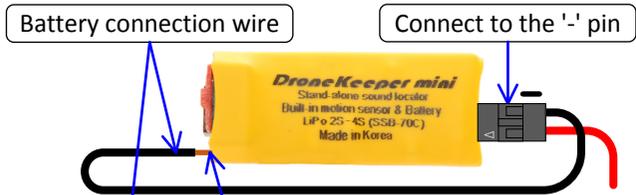


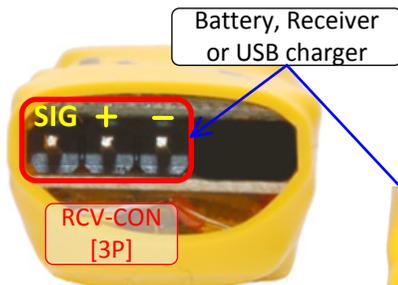
Quick Start Guide for DroneKeeper Mini



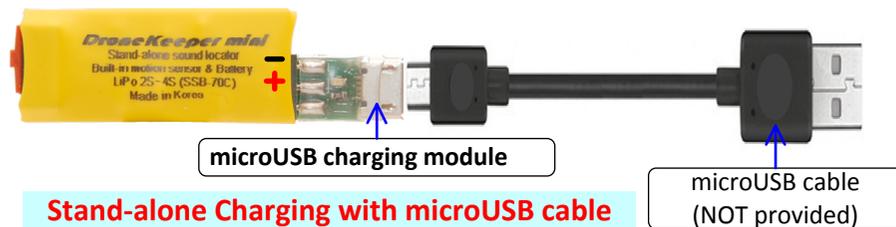
Wire connection for User mode change



Wire connection for Low voltage setting value change



Connector Pin Assignment



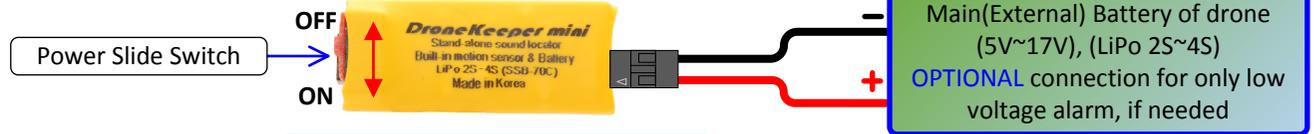
Stand-alone Charging with microUSB cable

[Low voltage alarm of Internal battery]

- Short beep every 2sec: Should charge the internal battery

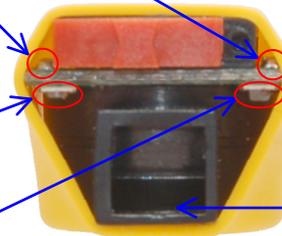
[Beep Sound description of Power On]

- User mode ->0.5s interval-> Current low voltage setting values ->0.5s interval-> Current battery cell detection



Wireless Mode Connection

- [PAD of User mode change]**
 - To change the Mode, tap on the pad using touch pen
- [PAD of Low voltage alarm setting change]**
 - To change the low voltage alarm setting value, tap on the pad using touch pen
- [Charging status Yellow LED]**
 - Turned ON: Charging status
 - Turned OFF: Charging done
- [User mode status RED LED]**
 - Short blink one time(1beep): Wireless Mode
 - Short blink two times(2beeps): Wired Mode

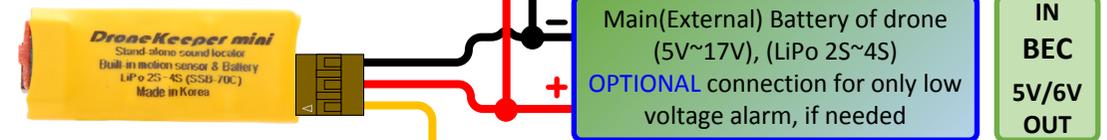


[Low voltage setting values]

- 1beep : 3.2V
- 2beeps: 3.3V
- 3beeps: 3.4V [DEFAULT VALUE]
- 4beeps: 3.5V
- 5beeps: 3.6V

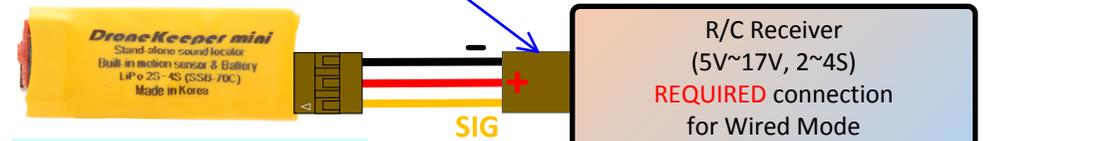
[Battery cell detection]

- NO beep: No battery or more than 5cells
- 2beeps: 2cells, 7.4V
- 3beeps: 3cells, 11.1V
- 4beeps: 4cells, 14.8V



Wired Mode Connection (when using low voltage alarm)

Male to Male Servo Lead (NOT provided)



Wired Mode Connection

[Features]

- Missing alarm will ring if there is no any movement of drone at Wireless mode
- Missing alarm will ring if a receiver loses signal or power at Wired mode
- Supports 2 kinds of user mode (Wireless mode, Wired mode)
- Built-in Motion sensor for Wireless mode
- Supports Low battery voltage alarm for external battery (main battery of drone) and can be changed from 3.2V to 3.6V by user
- Supports Low battery voltage alarm for internal battery
- Wide input voltage range from 5V to 17V (LiPo 2S to 4S)
- Power switch off detection alarm at Wired mode only
- Automatic internal battery charging when external power is connected
- Can also charge the internal battery through the PC USB port using a provided micro USB module
- Reverse voltage protection

[User Mode]

- **Wireless Mode: Motion Detection, [DEFAULT MODE]**
NO ANY CONNECTION required (Just turn on and off the power for flight)
If there is no any movement of drone, the missing alarm will ring after ~30sec automatically (To stop the missing alarm, power should be off)
To use optional low voltage alarm, just connect your main battery to + pin of RCV-CON of DroneKeeper Mini.
When the battery is connected to + pin of RCV-CON, the internal battery will be also charged automatically.
- **Wired Mode: R/C Receiver Signal & Power Detection**
Connect your empty channel of receiver to SIG pin of RCV-CON of DroneKeeper Mini using male to male servo lead.
Assigning the corresponding channel to your transmitter, allows to control the missing alarm on and off manually (Recommend channel setting → End point: +/-100%, Sub trim: Center)
If the main battery detaches from the drone on the crash, the missing alarm will ring automatically.
Otherwise, should turn on the missing alarm by your transmitter.
To use optional low voltage alarm, just connect your main battery to + pin of RCV-CON of DroneKeeper Mini.
When the battery is connected to + pin of RCV-CON, the internal battery will be also charged automatically.

[Specification]

- Input Voltage: DC5V ~ 17V (LiPo 2S ~ 4S) via RCV-CON
- Power consumption: Standby max 26mW(7mA @3.7V), Operation max 189mW(51mA @3.7V)
- Battery life time: about 2.5hours @since the missing alarm rings
- Charging time of the internal battery: about 1hour after full discharged
- R/C receiver signal pulse width: center 1,500us(1.5ms)
- Operating Temperature: -10°C ~ 50°C
- Sound pressure level: 90dB @10cm
- Dimensions: 35mm x 14mm x 11mm, Weight: 6g

[CAUTION]

- Input voltage of RCV-CON: 5V to 17V (LiPo 2S to 4S)
- **Do not exceed over 17V! Please mind the polarity of LiPo battery!**
- **Power On Sequence**
(1) Connect your main battery to your drone first → (2) Turn on the power of DroneKeeper Mini
※ If you don't follow this procedure under the main battery is connected to RCV-CON, the DroneKeeper Mini will not able to detect the battery cell properly
- **Low voltage alarm setting value**
※ After changing the low voltage alarm setting value, make sure to turn off and on the power of DroneKeeper Mini in order to adapt new setting value

Quick Start Guide for DroneKeeper Mini

2016.2.29 Revision R1.7

Thank you for purchasing this NicheTek product.

Packing List

- DroneKeeper Mini: 1pc
- microUSB charging module: 1pc
- Battery connection wire: 1pc
- Quick start guide: 1pc

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※ Specifications and price are subject to change without notice to improve product.