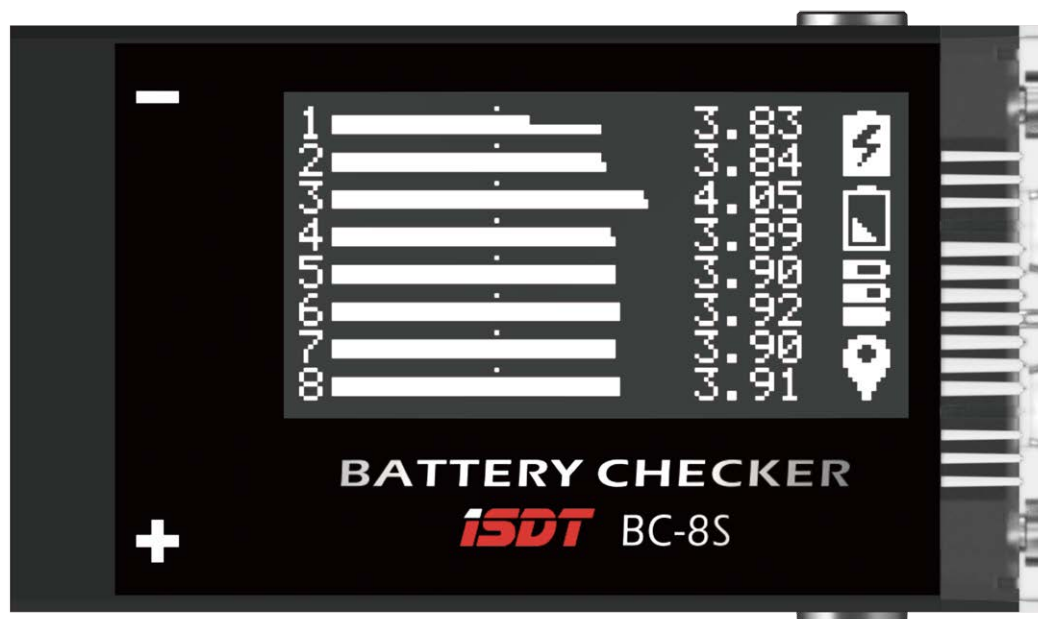




Battery Checker
BC-8S



BC-8S Battery Checker BC-8S

User manual

Ver 1.1.112

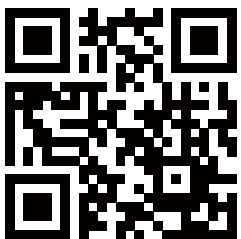
Disclaimer and Warning

Thank you for using the product from SHENZHEN ISD TECHNOLOGY CO.,LTD

This product is specifically designed for RC, not appliance in other areas. We strongly recommend you read our user ' s guide before using BC-8S. ISDT accepts no liability for damage, injury or any legal responsibility incurred directly or indirectly from the use of this product.

ISDT reserves the right to update the design, appearance, function and usage requirement without notifying.

23-Nov-16



Revolution Starts Here

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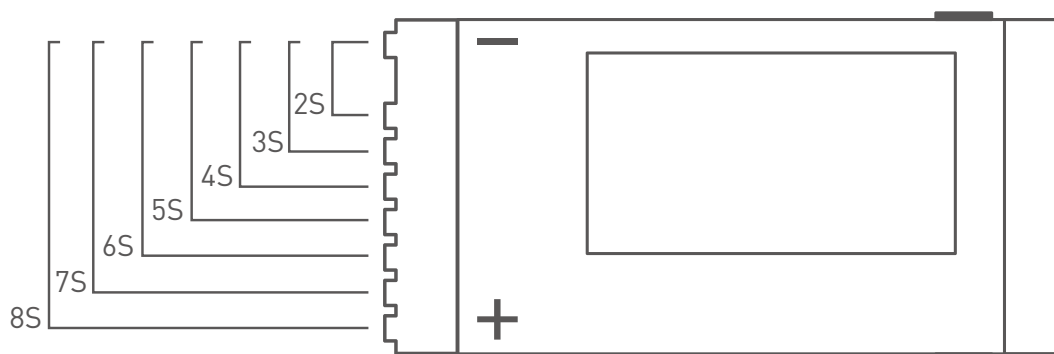
Features of product

- Using multi-channel differential detection circuit, with high-speed 32bit ARM microprocessor to provide fast and accurate voltage detection with easy access graphical display interface.
- High-resolution graphics dot matrix display, multi-data display mode.
- Ultra-light design, compatible with airborne or ground use modes.
- Multi-function setup menu leads to easy and direct operation.
- Protection of input reversely
- Automatic searching alarm function.
- Detect and memorize voltage, Display with bar graph

Specifications

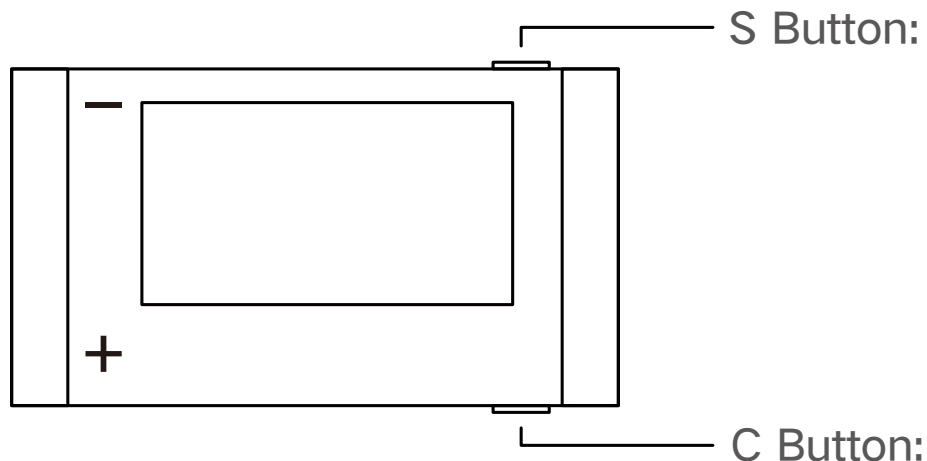
size	54mm x 30mm x 9mm
weight	15g
Minimum operating voltage	2.6V (1S battery)
Voltage measurement range	1.0 to 5.0V
Supports battery type	LiPo, LiHv, LiFe, Lilon
Support the number of batteries	1 to 8S
Voltage measurement accuracy	+ 5 mV
Buzzer sound pressure	85dB

Port diagram



Suitable for batteries with JST XH 2.54 balance port, connect the balance port start from "BAT-" as shows in the figure above.

Function button



S Button: Enter Setting Mode and switch setting options, Save your setting and return to measurement mode

C Button: Switch the data measurement display, disable the alarm Change the default setting, discard previous change and return to measurement mode

Voltage Display

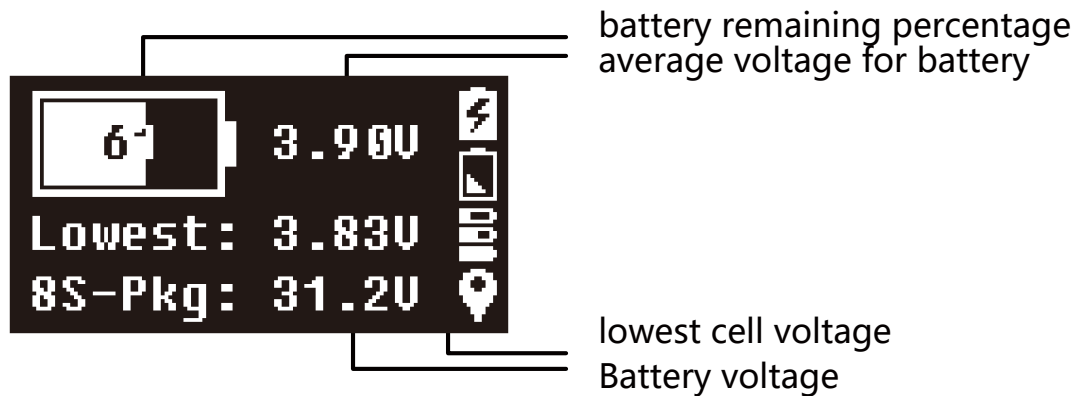
In measurement mode, press C button to switch display mode they are status display mode; graphic display mode and histogram display mode.



Status Display mode

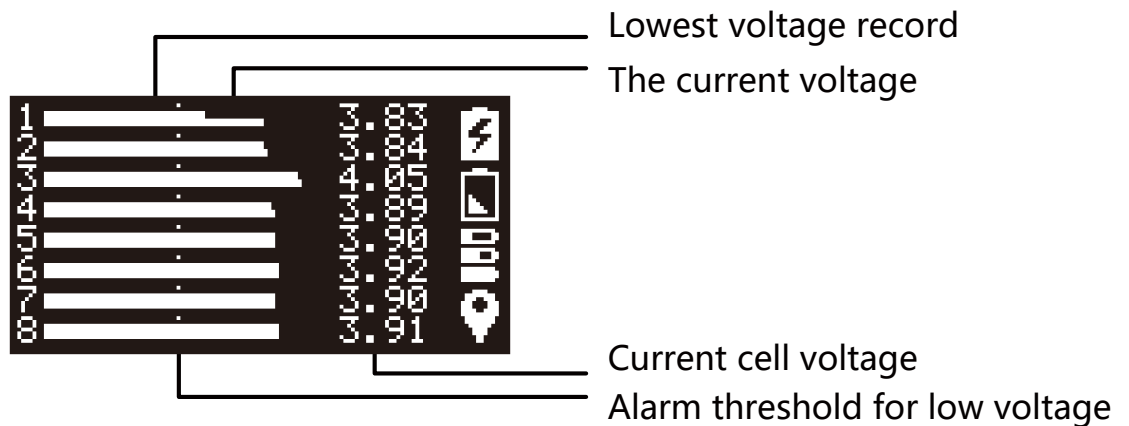
This mode is used to accurately display the voltage of battery. The icons on the right side of the screen represent each alarm functions. When the alarm function is enabled, the corresponding icon would flash when the alarm is active. This alarm can be disabled by pressing the C button.

Voltage Display



Graphic Display mode

Graphic mode is used to quickly and intuitively indicate the battery level. The indication of the battery level depends on how you set the battery type setting option.



Histogram Disp

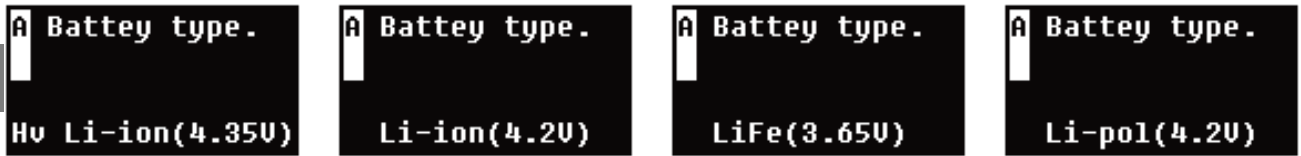
Histogram can tell you the voltage change during usage of battery. The upper part tells you the lowest voltage recorded during usage. The lower part shows you current voltage.

For on-board measurement, it's recommended to use this mode, after your flight by checking histogram, it can easily tell how well is your battery. If the lowest voltage of one cell is extremely lower than the others the resistance is bigger than other cells.

Function Setting

In measurement mode, press and hold S button to enter setting mode, details showed in the figure. Press S button to switch setting options, press C button to change parameters. Press and hold S button to save setting than return to measurement mode

A



A. battery type options, this option will cause how the battery percent display in the graphic display mode.

B



B. Voltage low threshold alarm setting, from 2.5~3.9V, "OFF" means disable low - voltage alarm function.

C



C. Voltage high threshold alarm setting, this setting is related with battery type. It can be set over +20~80mV than full voltage, "OFF" means disable high - voltage alarm function.

D



D. Inter-Battery voltage threshold alarm setting, while the voltage difference is over the set value it will trigger the alarm. Set value can be from 100 to 400 mV. "OFF" means disable this function.

Function Setting

E

E Location searching alarm.
ON

E Location searching alarm.
OFF

E. Automatic alarm function, “ON” means enable, “OFF” means disable; After enable this function, BC-8S could detect whether the motor is running or not, after motor stops running for more than 1 minute alarm will be triggered. This function is designed to look for the losing UAV.

To confirm that the function is reliable, perform a functional test on the ground. When this function is enabled, while the motor starts or stops, and BC-8S will make the alarm sound. Only after the BC-8S working properly with the test, user can use this function. Because the variety of model moto, electronic speed controller and battery, it can't be assured that BC-8S is suitable for every model. If BS-8S couldn't detect the stop&start of motor please do not use this function.

F

F One minute reminder.
ON

F One minute reminder.
OFF

F. One minute alarm function, “ON” means enable, “OFF” means disable; After enable this function, it will cause an alarm sound every 1 minute. This function can be used to indicate that the system is not powered off.

G

G Silence Operating.
ON

G Silence Operating.
OFF

G. Mute function, “ON” means mute, “OFF” means normal. In this mode , it will mute button sound and boot tone, not applicable for the activated alarm sound

H

H Display rotation setting.
Normal

H Display rotation setting.
Reversed

H. Display rotation setting, “Normal” means normal display, “Reversed” means rotated with 180°. This function is designed for on-board usage and for left-handed users.

Function Setting



I. Display contrast setting, it has 1~8 levels, for outdoor usage turn up contrast to increase visibility.



J. Language setting, can switch between English&Chinese.

Warning

This battery checker is suitable for :Li-pol, Li-ion, Li-Fe, Hv Li-ion; this battery checker is only suitable for the connection with balance port of battery, please do not connect with the output port of battery. While connect to the battery checker, negative electrode of the balance port must start from “BAT- “ . Reverse protection circuit is inside the BC-8S, no damage will cause to BC-8S while connect reversely.

BC-8S is designed for RC areas, please don't use this on other purpose.

For on board usage, in order to make sure sound from buzzer is loud enough, do not block the buzzer sound hole.



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Changes in specifications and data will not be further noticed.