

# SWIT®

PB- M90S

Rechargeable Li-ion Battery

Ver:A

# USER MANUAL

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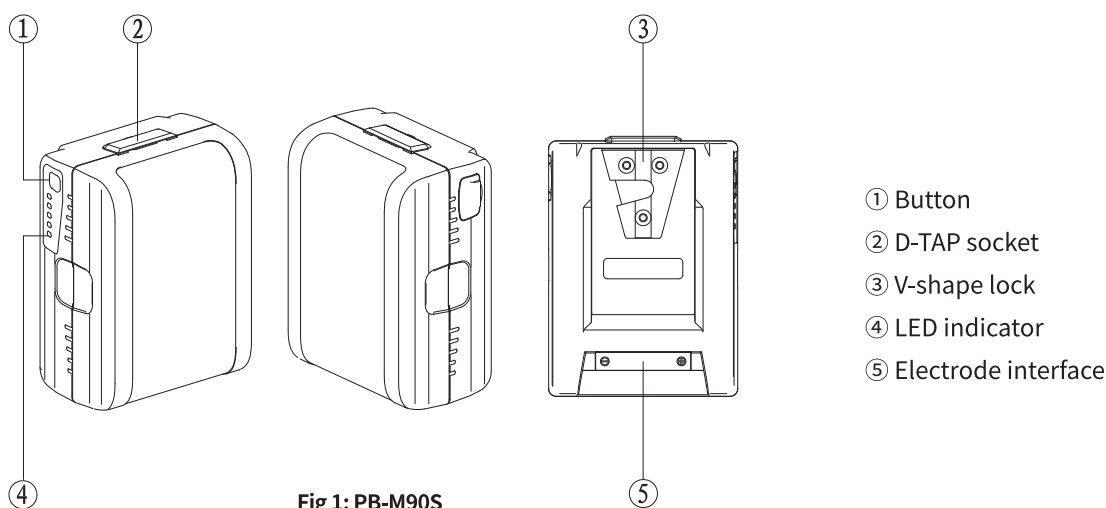
Congratulations on your purchase of this product. Please read this user manual carefully.

## Warning

**Keep in mind the following precautions to avoid fire and other safety hazards !**

- Do not use battery in fire or hot places to prevent overheating, cracking and other hazards.
- Please do not pierce the battery shell or try to open the shell and decompose the battery.
- Do not use battery beyond charge, discharge and storage environment temperature.
- Do not charge the battery in the car or in direct sunlight.
- Do not use damaged battery.
- Do not squeeze the battery shell which may cause physical damage.
- Make sure the power-consuming equipment(s) meet the battery specifications.
- Use SWIT charger or SWIT recommended charger to charge the battery to avoid overheating or cracking.
- Keep out of the reach of children.

## Description of appearance



## Caution

- Fully charged battery will discharge naturally and please use it as soon as it gets charged.
- The battery may become warm in use or while being charged. This is normal.
- Never expose the battery to temperature above 60°C.
- Keep the battery terminals clean and never short-circuit the battery terminals.
- When stored for a long time, please keep the battery power over 50%.
- After ten days' standing, the battery will automatically enter into the sleep mode, and the output will be shut off. Press the button to restore the output.

## Features

- High performance rechargeable lithium ion battery, no memory effect.
- LED display remaining power percentage in real time.
- Built-in multiple control circuit, to protect the battery in round from temperature, voltage and current.
- D-tap DC output, to power the camera and other equipment simultaneously.

## Charging

- The battery can be charged at a temperature range of 0~40°C, but it is suggested to charge at a temperature range of 10°C~30°C for the best performance of the battery.
- In the charging process, the battery displays the battery charge by the LED indicator.

## Discharging

- The battery can discharge at a temperature range of -20°C ~50°C, but it is suggested to discharge at a temperature range of -10~40°C for the best performance of the battery.
- When the battery power is below 20%, the lowest LED flashes .
- At low temperature, the battery internal resistance will increase, and the discharging time will shorten, which may lead to automatically cut off if the load is heavy.
- After the battery is under-voltage, the LED can not display the battery charge.

## LED display

- LED indicators from E to F represent power percentage 20%, 40%, 60%, 80% and 95% respectively.

Power percentage	F → E
≥95%	●●●●●
80%~95%	○●●●●
60%~80%	○○●●●
40%~60%	○○○●●
20%~40%	○○○○●
<20%	○○○○☼

## Specification

Model		PB-M90S
Battery plate		V-mount
Nominal voltage		14.4V
Capacity		90Wh, 6.25Ah
Max output	Electrodes	120W, 10A
	D-TAP ×1	120W, 10A
	In total	120W
Charging temperature		0~40°C (10~30°C recommended)
Discharging temperature		-20°C~50°C (-10~40°C recommended)
Dimension (mm)		100mm×74mm×48mm
Net weight		0.51kg
Max charging current		3A