SKYRC
Instruction Manual

v. 39
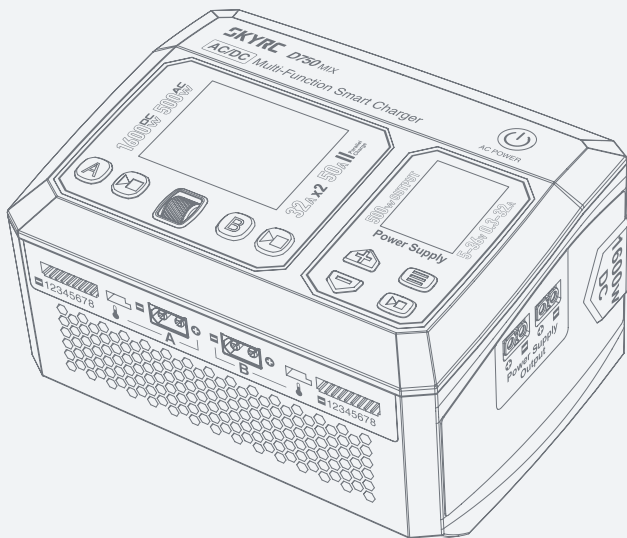
D750 MIX
AC/DC Multi-Function Smart Charger

Contents

Introduction

Congratulations on choosing the SkyRC D750 MIX AC/DC Multi-Function Smart Charger!

The D750 MIX features two independent channels and supports the vast majority of RC batteries on the market. It handles up to 8-cell LiPo batteries, delivering up to 32A per channel—or an impressive 55A when parallel charging. With dual input options (AC/DC), the D750 MIX adapts easily to any setup. Beyond standard charging, it offers DC power output, parallel charging, and reverse discharge, making it a powerful and versatile all-in-one platform for RC enthusiasts. Before first use, carefully read the manual, warnings, and safety instructions. Incorrect use of the charger or charging batteries improperly can be extremely hazardous, potentially leading to fires or even explosions.

In the Box
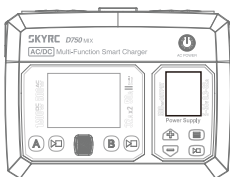
1 * SkyRC D750 MIX Charger
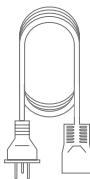
1 * AC Power Cord

1 * Quick Start Guide

12* QR Code Sticker

Getting to know D750 MIX
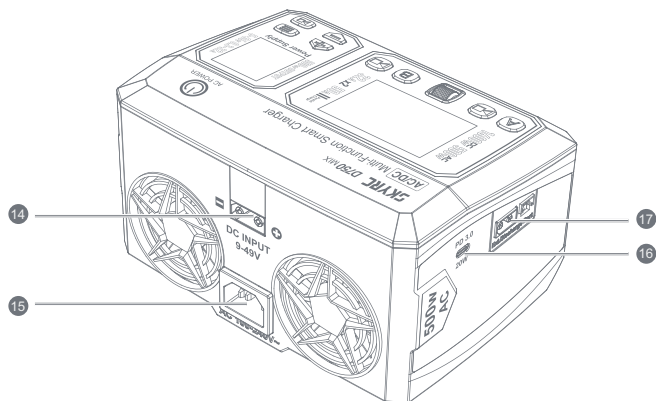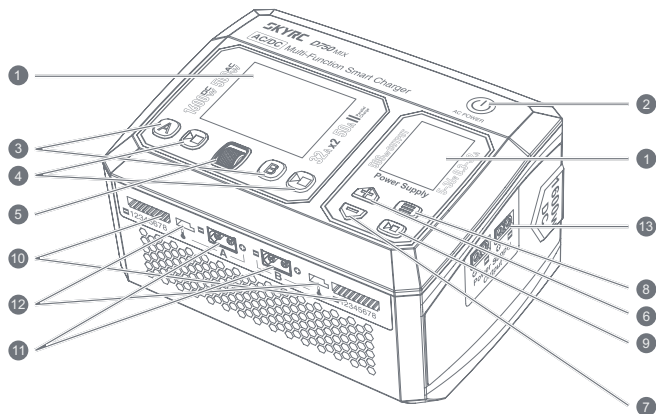
Getting to know D750 MIX

Charger:

1. Display

2. AC Power

3. Channel Button:
   Press to select the channel or navigate through charging screens.

4. Stop Button:
   Terminate the current program

5. Wheel Button –
   • Short press: Enter Charge Settings
   • Long press: Enter System Settings

Power Supply:

6. +/Up Button: Increase the value

7. -/Down Button: Decrease the value

8. Menu Button: Navigate through Power Supply settings

9. Start/Stop Button: Long press to turn the Power Supply on/off

Ports

10. Balance Port

11. Main Port (XT60 Charge/Discharge Port)

12. Temperature Sensor Port

13. Dual Output for Power Supply(XT60)

14. DC Input(XT90)

15. AC Input

16. USB-C Port

17. External Discharge Port(XT60)

Specification

Item	Option	Specification
Model		D750 MIX
Input Voltage	AC	100V-240V(50/60Hz)
	DC	9V-49V
Input Current	AC	AC100V/8A, AC240V/3A
	DC	Single Channel: 32A ±10% Dual Channels: 55A ±10%
Battery Type	LiPo/LiFe/Li-ion/LiHV	1S~8S
	NiMH/NiCd	1S~20S
	PB	3S/6S/12S
Working Modes	LiPo/LiFe/Li-ion/LiHV	Balance Charge / Charge / Storage / Discharge/ Parallel Charge / Reverse Discharge
	NiMH/NiCd	Charge/ Re-Peak/ C-D Cycle/ D-C Cycle/ Discharge/ Reverse Discharge
	PB	Normal/ AGM Charge/ Cold Charge/ Discharge/ Reverse Discharge
Charge Current	LiPo/LiFe/Li-ion/LiHV(2S~8S)	0.1A~0.5A(±0.1A) 0.6A~32A(±10%)
	LiPo/LiFe/Li-ion/LiHV(1S) NiMH/NiCd	0.1A~0.5A(±0.1A) 0.6A~10A(±10%)
	PB	0.1A~0.5A(±0.1A) 0.6A~15A(±10%)
Balance Current	LiPo/LiFe/Li-ion/LiHV	1.9A Max
Discharge Current		0.1A-4A
Charging Power	AC Input	500W
	DC Input	Single Channel: 1100W Dual Channel: 1600W
Discharge Power	Main Port	45W (±10%)
	Balance Port	20W Max (LiPo/8s)
Lithium Battery Storage Voltage Range	LiPo	3.75-3.90V/cell Default: 3.85V
	Li-ion	3.70-3.85V/cell Default: 3.80V
	LiFe	3.25-3.40V/cell Default: 3.30V
	LiHV	3.85-3.95V/cell Default: 3.90V

Specification

Item	Option	Specification
Discharge Voltage Range	LiPo	3.00V-3.40V/cell Default: 3.30V
	Li-ion	2.90V-3.30V/cell Default: 3.20V
	LiFe	2.60V-3.00V/cell Default: 2.90V
	LiHV	3.10V-3.50V/cell Default: 3.40V
	NiMH/NiCd	0.60V-1.00V/cell Default: 0.90V
	PB	1.80V-2.00V /cell Default: 1.90V
Parallel Charge Current	2-8S LiPo/LiFe/Li-ion/LiHV	33A~50A
Reverse Discharge Power	LiPo/LiFe/Li-ion/LiHV 2S~8S	1100W
	NiMH/ NiCd 8S~20S	
	PB 3S/6S/12S	
External Discharge (Channel A)		BD350/BD380 0.5A~40A
DC Power Supply	Voltage	5V-36V Default: 12V
	Current	0.3A-32A Default: 20A
	Power	AC Input: 500W DC Input: 1100W
Type-C		Protocol: PD3.0 20W 5V/3A 9V/2.2A 12V/1.67A
App	iOS/ Android	SkyCharger (Default Passcode: 5793)
Language		English/简体中文/日本語/Deutsch/Français/Español Default: English
Working Environment	Temperature	0°C/32°F ~ 40°C/104°F
	Humidity	5%~75% RH, non-condensing.
Storage Environment	Temperature	-10°C/14°F ~ 70°C/158°F
	Humidity	5%~75% RH, non-condensing.
Dimension		180x136x112mm
Weight		1626g

⚠ Warning

D750 MIX is not intended for use by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the charger by a person responsible for their safety.

Failure to exercise caution while using this product and comply with the following warnings could result in a product malfunction, electrical issues, excessive heat, FIRE, and ultimately injury and property damage.

⚠ Never leave charging batteries unattended during use.

⚠ Never charge batteries overnight.

⚠ Never attempt to charge dead, damaged, or wet battery packs.

⚠ Never attempt to charge a battery pack containing different types of batteries.

⚠ Never charge batteries in extremely hot or cold places or place in direct sunlight.

⚠ Never charge a battery if the cable has been pinched or shorted.

⚠ Never connect the charger if the power cord has been pinched or shorted.

⚠ Never attempt to dismantle the charger or use a damaged charger.

⚠ Never attach your charger to both an AC and a DC power source at the same time.

⚠ Always use the charger with the correct charging and discharging program.

⚠ Always use only rechargeable batteries designed for use with this type of charger.

⚠ Never use the charger on car seats, carpets, or similar surfaces.

⚠ Always operate the charger away from flammable and explosive materials.

Standard Battery Parameters

	LiPo	Li-ion	LiFe	LiHV	NiMH	NiCd	PB
Nominal voltage	3.7V/cell	3.6V/cell	3.3V/cell	3.8V/cell	1.2V/cell	1.2V/cell	2.0V/cell
Charge voltage	4.2V/cell	4.2V/cell	3.65V/cell	4.35V/cell	1.5V/cell	1.5V/cell	2.4V/cell
Storage voltage	3.85V/cell	3.8V/cell	3.3V/cell	3.9V/cell	N/A	N/A	N/A
Allowable fast charge current	≦1C	≦1C	≦4C	≦1C	1C-2C	1-2C	≦0.4C
Min. discharge voltage	3.0-3.4V/cell	2.9-3.3V/cell	2.6-3.0V/cell	3.1-3.5V/cell	0.6-1.0V/cell	0.6-1.0V/cell	1.8~2.0V/cell

Program Flow Chart

Note: The flow chart uses one port as an example, as the process for Ports A and B is identical.

WARNING!
NEVER USE THE CHARGER UNSUPERVISED!

LiPo batteries pose a severe risk of fire explosion, serious injury, and property damage if not properly handled. Before use, read and follow all instructions, warnings, and precautions.

A LiPo / 4S / Bal. CHG
0.000 v 0.00 A
0mAh 0W 00:00:00

B LiPo / 4S / Bal. CHG
0.000 v 0.00 A
0mAh 0W 00:00:00

Ⓐ
Ⓑ

A LiPo / 4S / Bal. CHG	B LiPo / 4S / Bal. CHG
0.00 v 0.00 A	0.00 v 0.00 A
0mAh 0 W 00:00:00	0mAh 0 W 00:00:00

Ⓐ

Long Press 5 seconds

A CHARGE SETTINGS

Battery Type:	LiPo
Cell Count:	4S(14.8V)
Task:	Bal. CHG
Condition:	4.20V
Cycle:	0
Charge Current:	3.0A

A CHARGE SETTINGS

Battery Type:	LiPo
Cell Count:	4S(14.8V)
Task:	Bal. CHG
Condition:	4.20V
Cycle:	0
Charge Current:	3.0A

A CHARGE SETTINGS

Battery Type:	LiPo
Cell Count:	4S
Task:	Bal. CHG
Condition:	4.20V
Cycle:	0
Charge Current:	3.0A

A CHARGE SETTINGS

Battery Type:	
Cell Count:	LiPo
Task:	LiHV
Condition:	LiFe
Cycle:	Li-ion
Charge Curren	

A CHARGE SETTINGS

Battery Type:	
Cell Count:	
Task:	1S
Condition:	2S
Cycle:	3S
Charge Curren	

A CHARGE SETTINGS

Battery Type:	
Cell Count:	Bal. CHG
Task:	
Condition:	Charge
Cycle:	Storage
Charge Curren	Discharge

CHARGER SETTING

Task Parameters	>
Preference	>
Battery Meter	>
Factory Settings	>
User Guide	>
System Info	>
Regulatory	>
Back	

CHARGER SETTING

Task Parameters	>
Preference	>
Battery Meter	>
Factory Settings	>
User Guide	>
System Info	>
Regulatory	>
Back	

CHARGER SETTING

Task Parameters	>
Preference	>
Battery Meter	>
Factory Settings	>
User Guide	>
System Info	>
Regulatory	>
Back	

CHARGER SETTING

Task Parameters	>
Preference	>
Battery Meter	>
Factory Settings	>
User Guide	>
System Info	>
Regulatory	>
Back	

> Task Parameters

Safety Timer	240 Minute
Max.Capacity	12000 mAh
Trickle Charge	OFF
Keep Voltage	OFF
Back	

> Prefenence

Language	English
Max. Input Power	500W
Min. Input Voltage	10.0V
LCD BackLight	Middle
Keypress Beep	Low
Notify Beep	Low
Completion Tone	Once
Warning	ON
Back	

> Battery Meter A

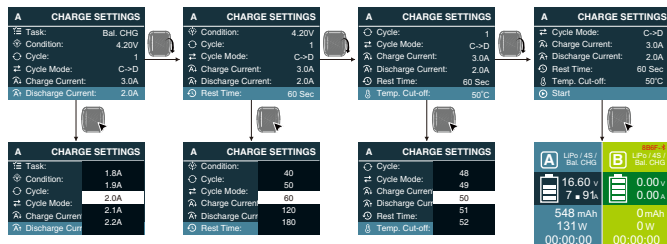| ❶ 4.05V	1mΩ	
❷ 4.05V	3mΩ	
❸ 4.05V	3mΩ	
❹ 4.05V	0mΩ	
❺ 4.05V	5mΩ	**Total**
❻ 4.05V	3mΩ	**30.13V**
❼ 4.05V	3mΩ	
❽ 4.05V	2mΩ	**28mΩ**

> Factory Setting

Restore Factory Settings?

[YES] [NO]

Program Flow Chart

Note: The flow chart uses one port as an example, as the process for Ports A and B is identical.

A   CHARGE SETTINGS
|	
🔋 Battery Type:	LiPo
ⅲ Cell Count:	4S(14.8V)
☰ Task:	Bal. CHG
⚙ Condition:	4.20V
⟳ Cycle:	0
⚡ Charge Current:	3.0A

A   CHARGE SETTINGS
🔋 Battery Type:	LiPo
ⅲ Cell Count:	4S(14.8V)
☰ Task:	Bal. CHG
⚙ Condition:	4.20V
⟳ Cycle:	0
⚡ Charge Current:	3.0A

A   CHARGE SETTINGS
🔋 Battery Type:	LiPo
ⅲ Cell Count:	4S(14.8V)
☰ Task:	Bal. CHG
⚙ Condition:	4.20V
⟳ Cycle:	1
⇄ Cycle Mode:	C->D

A   CHARGE SETTINGS
ⅲ Cell Count:	4S(14.8V)
☰ Task:	Bal. CHG
⚙ Condition:	4.20V
⟳ Cycle:	1
⇄ Cycle Mode:	C->D
⚡ Charge Current:	3.0A

A   CHARGE SETTINGS
🔋 Battery Type:	
ⅲ Cell Count:	4.18V
☰ Task:	4.19V
⚙ Condition:	♥ 4.20V
⟳ Cycle:	4.21V
⚡ Charge Current:	4.22V

A   CHARGE SETTINGS
🔋 Battery Type:	
ⅲ Cell Count:	0
☰ Task:	1
⚙ Condition:	2
⟳ Cycle:	3
⚡ Charge Curren	

A   CHARGE SETTINGS
🔋 Battery Type:	
ⅲ Cell Count:	
☰ Task:	
⚙ Condition:	C->D
⟳ Cycle:	D->C
⇄ Cycle Mode:	

A   CHARGE SETTINGS
ⅲ Cell Count:	2.8A
☰ Task:	2.9A
⚙ Condition:	3.0A
⟳ Cycle:	3.1A
⇄ Cycle Mode:	3.2A
⚡ Charge Curren	

CHARGER SETTING
⊞ Task Parameters	>
⇅ Preference	>
⊘ Battery Meter	>
⚙ Factory Settings	>
▤ User Guide	>
ⓘ System Info	>
⊘ Regulatory	>
↩ Back	

CHARGER SETTING
⊞ Task Parameters	>
⇅ Preference	>
⊘ Battery Meter	>
⚙ Factory Settings	>
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CHARGER SETTING
⊞ Task Parameters	>
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⚙ Factory Settings	>
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> User Guide

Scan to View

> System Info

Hardware Version: 1.00
Software Version: 2.59
Blue Addr: 8B6F
Password: XXXX

SN: 146542345678956546153125

> Regulatory

Program Flow Chart

Note: The flow chart uses one port as an example, as the process for Ports A and B is identical.

A	CHARGE SETTINGS
Task:	Bal. CHG
Condition:	4.20V
Cycle:	1
Cycle Mode:	C->D
Charge Current:	3.0A
Discharge Current:	2.0A

A	CHARGE SETTINGS
Condition:	4.20V
Cycle:	1
Cycle Mode:	C->D
Charge Current:	3.0A
Discharge Current:	2.0A
Rest Time:	60 Sec

A	CHARGE SETTINGS
Cycle:	1
Cycle Mode:	C->D
Charge Current:	3.0A
Discharge Current:	2.0A
Rest Time:	60 Sec
Temp. Cut-off:	50°C

A	CHARGE SETTINGS
Cycle Mode:	C->D
Charge Current:	3.0A
Discharge Current:	2.0A
Rest Time:	60 Sec
Temp. Cut-off:	50°C
Start	

A	CHARGE SETTINGS
Task:	
Condition:	1.8A
Cycle:	1.9A
Cycle Mode:	2.0A
Charge Current:	2.1A
Discharge Current:	2.2A

A	CHARGE SETTINGS
Condition:	
Cycle:	40
Cycle Mode:	50
Charge Current:	60
Discharge Current:	120
Rest Time:	180

A	CHARGE SETTINGS
Cycle:	
Cycle Mode:	48
Charge Current:	49
Discharge Current:	50
Rest Time:	51
Temp. Cut-off:	52

A	LiPo / 4S / Bal. CHG	B	LiPo / 4S / Bal. CHG
	16.60 v		0.00 v
	7 ● 91%		0.00 A
548 mAh		0 mAh	
131 w		0 w	
00:00:00		00:00:00	

Power and Battery Connection & Charging (Demo with 6-Cell LiPo)

1. Connect to the Power Source

SkyRC D750 MIX supports two types of power input:
AC 100-240V and DC 9-49V

12V Pb battery or compatible
DC power source

100–240V AC outlet
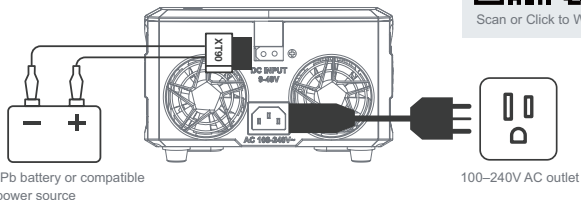
* AC Input: Long press the AC power button to turn on.
  DC Input: It powers on automatically once the power supply is connected.

2. Connect the Battery

⚠️ **WARNING!** To avoid short circuit, connect charge leads to charger first, then battery. Disconnect in reverse order.

1. LiPo Battery Connection with Balance Connector.

LiPo Battery

NiMH Battery
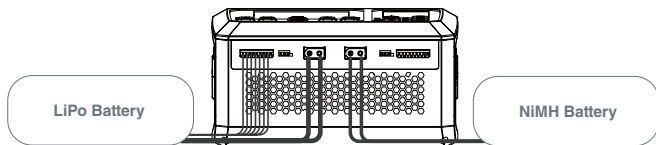
2. Select Channel A or B where the battery is connected.

3. Press the scroll wheel to configure the charging parameters:

- Battery type
- Number of cells
- Target voltage
- Charge current
- Cut-off temperature
- Press "Start" to begin charging.

For safety reasons, it is highly recommended to charge Lithium batteries (LiPo, Li-ion, LiFe and LiHV) using Balance CHG mode unless the battery comes without a balance connector.
The balance wire attached to the battery must be connected to the charger with the black wire aligned with the negative (-) marking.
Ensure correct polarity!

Battery Operations Matrix

This table lists all the operations that D750 MIX can perform based on the battery type.

Battery Type	Working Mode	Description
LiPo Li-ion LiFe LiHV	Balance CHG	This mode is to balances charge the lithium battery according to the user-defined charging rate. It ensures each cell of the battery is balanced.
	Charge	This mode charges the lithium battery based on the selected charging rate.
	Storage	This mode stores the battery via charging or discharging its voltage to a specific storage value.
	Discharge	This mode is to discharge the lithium battery based on the selected discharging rate.
	Parallel Charge	This mode is to parallel charge the battery with a higher charge rate of up to 50.0A.
	Reverse Discharge	Reverse discharge mode allows transferring energy from an idle battery to another.
NiMH NiCd	Charge	This mode charges the NiMH/NiCd battery based on the selected charging rate.
	Discharge	This mode is to discharge the NiMH/NiCd battery based on the discharging rate selected.
	Repeak	In Repeak mode, the charger automatically peaks the battery twice in a row. This helps ensure the NiMH/NiCd battery is fully charged.
	Cycle_D_C	A cyclic and continuous process of 1 to 3 discharge > charge cycles can be used to refresh and restore the performance of NiMH/NiCd batteries.
	Cycle_C_D	A cyclic and continuous process of 1 to 3 charge > discharge cycles can be used to refresh and restore the performance of NiMH/NiCd batteries.
	Reverse Discharge	Reverse discharge mode allows transferring energy from an idle battery to another.
Pb	Normal	This mode charges the Pb battery based on the selected charging rate.
	AGM Charge	This mode charges the AGM battery based on the selected charging rate.
	Cold Charge	This mode charges the Pb battery under a low temperature based on the selected charging rate.
	Discharge	This mode is to discharge the Pb battery based on the selected discharging rate.
	Reverse Discharge	Reverse discharge mode allows transferring energy from an idle battery to another.

Lithium Battery Program (LiPo/LiFe/Li-ion/LiHV)

Select Port
Short press button A or B to select the channel.

Enter Charge Settings
Press the Scroll button to enter Charge Settings.

A	CHARGE SETTING
Battery Type:	
Cell Count:	
Task:	LiPo
Condition:	LiHV
Cycle:	LiFe
Charge Current	Li-ion

Select Battery Type
Press the Scroll button to open the Battery Type menu,
then scroll to choose your preferred lithium battery type.

A	CHARGE SETTING
Battery Type:	
Cell Count:	
Task:	1S
Condition:	2S
Cycle:	3S
Charge Current	

Set Battery Cell
Scroll and short-press the button to select the correct
battery cells.

A	CHARGE SETTING
Battery Type:	
Cell Count:	
Task:	Bal. CHG
Condition:	Charge
Cycle:	Storage
Charge Current	Discharge

Select Task
Scroll and short-press the button to select the working mode.

A	CHARGE SETTING
Battery Type:	
Cell Count:	4.18V
Task:	4.19V
Condition:	♥ 4.20V
Cycle:	4.21V
Charge Current:	4.22V

Set Cut-off Condition
Scroll and short-press the button to set the cut-off voltage.

A	CHARGE SETTING
Battery Type:	
Cell Count:	0
Task:	1
Condition:	2
Cycle:	3
Charge Current	

Select cycle times
Scroll and short-press the button to set the cycle count (0-3).

A	CHARGE SETTING
Battery Type:	
Cell Count:	
Task:	
Condition:	
Cycle:	C->D
Cycle Mode:	D->C
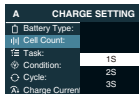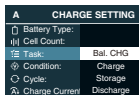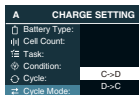
Select Cycle Mode
Scroll and short-press the button to choose the cycle mode
(required when cycle times ≥1).

Lithium Battery Program (LiPo/LiFe/Li-ion/LiHV)

A	CHARGE SETTING	
Cell Count:		2.8A
Task:		2.9A
Condition:		3.0A
Cycle:		3.1A
Cycle Mode:		3.2A
Charge Current		

Select Charge Current
Scroll and short-press the button to set the desired working current.

A	CHARGE SETTING	
Task:		1.8A
Condition:		1.9A
Cycle:		2.0A
Cycle Mode:		2.1A
Charge Current		2.2A
Discharge Curr		

Select Discharge Current
Scroll and short-press the button to set the desired working current
(required when cycle times ≥1).

A	CHARGE SETTING	
Condition:		40
Cycle:		50
Cycle Mode:		60
Charge Current		120
Discharge Curr		180
Rest Time:		

Select the Rest Time
Scroll and short-press the button to set the rest time
(required when cycle times ≥1).

A	CHARGE SETTING	
Cycle:		48
Cycle Mode:		49
Charge Current		50
Discharge Curr		51
Rest Time:		52
Temp. Cut-off:		

Temperature Cut-off Setting
Scroll and short-press the button to set temperature protection thresholds.

A	CHARGE SETTING	
Cycle Mode:		C->D
Charge Current		3.0A
Discharge Current:		2.0A
Rest Time:		60 Sec
Temp. Cut-off:		50°C
Start		

Start
Press the Scroll button to confirm and start the program.

A	CHARGE SETTING	
Charge Current:		3.0A
Discharge Current:		2.0A
Rest Time:		60 Sec
Temp. Cut-off:		50°C
Start		
Back		

Back
Press to return to the main interface.

Stop
Long press the Stop button to terminate the current program.

Note:
- Ensure that AC and DC power are not connected simultaneously.
- Do not connect the battery before powering on the charger.
- See page 17/18 for Parallel Charging/Reverse Discharge setup.

NiMH/NiCd Battery Program

Select Port
Short press button A or B to select the channel.

Enter Charge Settings
Press the Scroll button to enter Charge Settings.

A	CHARGE SETTING	
Battery Type:	LiHV	
Cell Count:	LiFe	
Task:	NiMH	
Condition:	NiCd	
Charge Current	PB	
Temp. Cut-off:		

Select Battery Type
Press the Scroll button to open the Battery Type menu,
then scroll to choose your preferred lithium battery type.

A	CHARGE SETTING	
Battery Type:		
Cell Count:		
Task:	1S	
Condition:	2S	
Charge Current	3S	
Temp. Cut-off:		

Set Battery Cell
Scroll and short-press the button to select the correct battery cells.

A	CHARGE SETTING	
Battery Type:		
Cell Count:		
Task:	Charge	
Condition:	Re-Peak	
Charge Current	C>D Cycle	
Temp. Cut-off:		

Select Task
Scroll and short-press the button to select the working mode.

A	CHARGE SETTING	
Battery Type:		
Cell Count:	-4 Δ mV	
Task:	-5 Δ mV	
Condition:	♥ -6 Δ mV	
Cycle:	-7 Δ mV	
Charge Current	-8 Δ mV	

Set Cut-off Condition
Scroll and short-press the button to set the delta voltage.

A	CHARGE SETTING	
Battery Type:		
Cell Count:		
Task:		
Condition:	1	
Cycle:	2	
Charge Current	3	

Select cycle times
Scroll and short-press the button to set the cycle count (0-3).

A	CHARGE SETTING	
Battery Type:	2.8A	
Cell Count:	2.9A	
Task:	3.0A	
Condition:	3.1A	
Cycle:	3.2A	
Charge Current		

Select Charge Current
Scroll and short-press the button to set the desired working current.

NiMH/NiCd Battery Program

A	CHARGE SETTING
Cell Count:	
Task:	1.8A
Condition:	1.9A
Cycle:	2.0A
Charge Current	2.1A
Discharge Curr	2.2A

Select Discharge Current
Scroll and short-press the button to set the desired working current.

A	CHARGE SETTING
Task:	
Condition:	10
Cycle:	11
Charge Current	12
Discharge Curr	13
Rest Time:	14

Select the Rest Time
Scroll and short-press the button to set the rest time.

A	CHARGE SETTING
Condition:	
Cycle:	48
Charge Current	49
Discharge Curr	50
Rest Time:	51
Temp. Cut-off:	52

Temperature Cut-off Setting
Scroll and short-press the button to set temperature protection thresholds.

A	CHARGE SETTING
Cycle:	1
Charge Current:	3.0A
Discharge Current:	2.0A
Rest Time:	10 Minute
Temp. Cut-off:	50℃
Start	

Start
Press the Scroll button to confirm and start the program.

A	CHARGE SETTING
Charge Current:	1
Discharge Current:	3.0A
Rest Time:	2.0A
Temp. Cut-off:	10 Minute
Start	50℃
Back	

Back
Press to return to the main interface.

Stop
Long press the Stop button to terminate the current program.

Note:
- Ensure that AC and DC power are not connected simultaneously.
- Do not connect the battery before powering on the charger.
- See page 18 for Reverse Discharge setup.

Pb Lead-Acid Battery Program
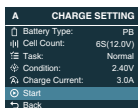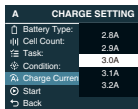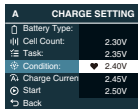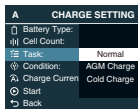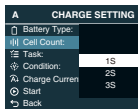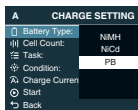
Select Port
Short-press the A/B button to select the channel.

Enter Charge Settings
Press the Scroll button to enter Charge Settings.

A	CHARGE SETTING
Battery Type:	NiMH
Cell Count:	NiCd
Task:	PB
Condition:	
Charge Curren	
Start	
Back	

Select Battery Type
Press the Scroll button to open the Battery Type menu,
then scroll to choose your preferred lithium battery type.

A	CHARGE SETTING
Battery Type:	
Cell Count:	
Task:	1S
Condition:	2S
Charge Curren	3S
Start	
Back	

Set Battery Cell
Scroll and short-press the button to select the correct battery cells.

A	CHARGE SETTING
Battery Type:	
Cell Count:	
Task:	Normal
Condition:	AGM Charge
Charge Curren	Cold Charge
Start	
Back	

Select Task
Scroll and short-press the button to select the working mode.

A	CHARGE SETTING
Battery Type:	
Cell Count:	2.30V
Task:	2.35V
Condition:	♥ 2.40V
Charge Curren	2.45V
Start	2.50V
Back	

Set Cut-off Condition
Scroll and short-press the button to set the cut-off voltage.

A	CHARGE SETTING
Battery Type:	2.8A
Cell Count:	2.9A
Task:	3.0A
Condition:	3.1A
Charge Curren	3.2A
Start	
Back	

Select Charge Current
Scroll and short-press the button to set the desired working current.

A	CHARGE SETTING
Battery Type:	PB
Cell Count:	6S(12.0V)
Task:	Normal
Condition:	2.40V
Charge Current:	3.0A
Start	
Back	

Start
Press the Scroll button to confirm and start the program.
Back
Press to return to the main interface.
Stop
Long press the Stop button to terminate the current program.

Note:
● Ensure that AC and DC power are not connected simultaneously.
● Do not connect the battery before powering on the charger.
● See page 18 for Reverse Discharge setup.

DC Power Supply

SkyRC D750 MIX supports DC power output via both AC and DC input. Once activated, it can supply power to DC devices.

Short press ☰ to set the output voltage (5V–36V) and current (0.3A–32A). Use the "➕" and "➖" buttons to adjust the values.

Long press ▶️ to turn the DC power function on or off.

Scan or Click to Watch
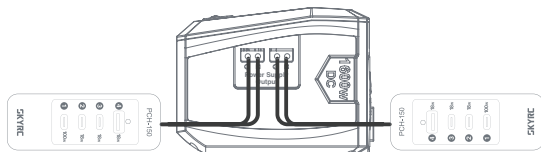
Notes:
1. Both output ports can work independently. Parallel operation only when using both outputs simultaneously. Series connection will destroy the unit.
2. No reverse polarity protection on output ports. Reverse connection will damage the unit.

Parallel Charging

SkyRC D750 MIX offers a Parallel Charging mode to deliver higher charging current.

Note: Parallel Charging is only supported for lithium batteries. Other battery types are not supported!

Use the dedicated parallel charging cable* for this product to correctly connect the battery's main lead and balance lead.

1. Select the channel to which the battery's balance lead is connected, e.g., Channel A;
2. Choose the correct battery type (LiPo / LiFe / Li-ion / LiHV);
3. In the task menu, select the "Parallel Charge" program;
4. Set the charging current (adjustable range: 33–50A);
5. Once all settings are complete, press "Start" to begin parallel charging.

*The parallel charging cable is sold separately!

Scan or Click to Watch

LiPo Battery
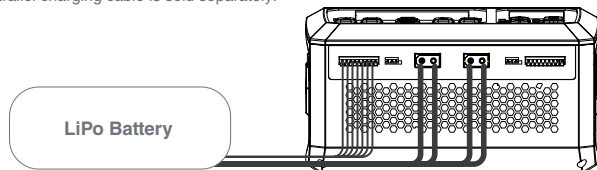
Reverse Discharge

With Reverse Discharge mode, SkyRC D750 MIX allows you to transfer energy from an idle battery to another battery, reducing energy waste.

LiPo Battery

NiMH Battery
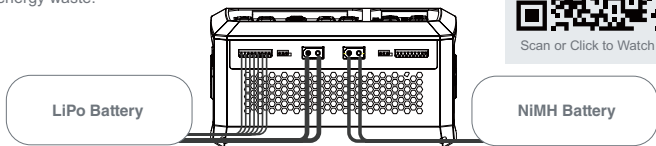
Example:

For instance, we use Channel B to discharge the source battery and Channel A to charge the target battery.

1. Select the correct battery type.
   Only following battery types are supported(the charge side has no restrictions):
   • 2–8S LiXX
   • 8–20S NiXX
   • 3S / 6S / 12S Pb

2. Select the number of cells (optional).
   If the balance lead is connected, the system can automatically detect the cell count. You may also set it manually. If no balance lead is connected, manual input is required.

3. From the task menu, select "Reverse Discharge."

4. Configure Discharge parameters:
   • Cut-off voltage
   • Discharge current
   • Cut-off temperature

5. Press "Continue at A" to Configure Charge parameters:
   • Battery type
   • Number of cells
   • Target voltage
   • Charge current
   • Cut-off temperature

6. Press "Start" to begin reverse discharge.

   Notes:
   • AC Input: no voltage limit; DC input: must be <40V to enable reverse discharge function.
   • Cannot operate simultaneously with DC power input
   • Cannot operate simultaneously with Type-C input
   • Minimum discharge power requirement: >20W (system will not activate below this threshold)

External Discharge

D750 MIX supports external discharge, reaching up to 40A when connected to the BD350/BD380 discharger.

Scan or Click to Watch

LiPo Battery
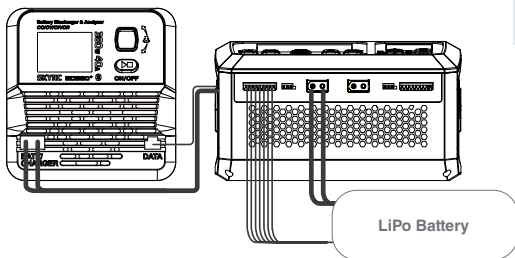
1. Once the power supply is connected, D750 MIX powers up and enters the main interface automatically;
2. Connect the BD350/BD380 discharger to D750 MIX;
3. Connect the battery to Port A on D750 MIX;
4. Select the battery type, number of cells, discharge program, cut-off voltage, and discharge current;
5. Start the program once the settings are configured.

Note:
- The BD350/BD380 discharger is not included and must be purchased separately.
- External discharge is available only on Port A.

Working with the SkyCharger APP

This charger comes equipped with a built-in Bluetooth 5.0 module, enabling users to easily control the charger via the SkyCharger app. Firmware upgrades are also supported through the SkyCharger app.

Scan the QR code below to download the SkyCharger app.
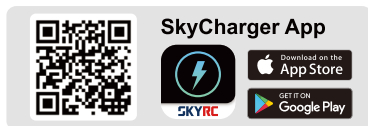
Firmware Upgrade
1. Open the SkyCharger app.
2. Tap "+" to add the device, verify the corresponding Bluetooth number, and connect to D750 MIX.
3. Enter the Settings page, when the SkyCharger app detects a new firmware, choose to upgrade.
4. Wait for the progress bar to reach 100%.

Scan to GO

The charger comes with QR code stickers for instant setup.

Register QR Code
1. Connect the D750 MIX charger to the SkyCharger app.
2. Tap "Scan to Go" in the charging settings interface.
3. Scan the QR Code.
4. Select Channel A/B
5. Set the charging/discharging parameters.
6. Tap "Save"

Scan to Charge
1. Connect the D750 MIX charger to the SkyCharger app.
2. Tap "Scan to Go" in the charging settings interface.
3. Scan the registered QR code, confirm the parameters, and tap "Start" to initiate charge or discharge operations.

On the scanning interface, tap "My Battery" to view the registered batteries for each channel. From this list, you can initiate charge/discharge operations with one tap or check the battery's historical charge/discharge data.
Notice: Scan to Go doesn't support Reverse Discharge mode.

PD/QC3.0 Output with USB Type-C

In addition to charging RC batteries, the charger can also charge mobile devices through the USB Type-C PD/QC3.0 output with a charging power of up to 20W.
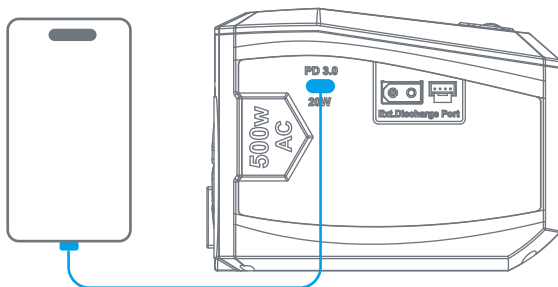
Voltage Calibration (For expert user only)

You can calibrate the voltage directly on the charger with a 8S LiPo battery. For more information, please contact us at info@skyrc.com.

Errors Explained

In the event of a fault, D750 MIX will display an error message indicating issues such as connection problems or battery mismatches. Refer to the table below for troubleshooting solutions based on the error code.

Errors Message	Explanation
Input Volt Too Low!	Input Volt Too Low!
Input Volt Too High!	Input Volt Too High!
Connection Break!	The battery connection is broken!
Cell Count Error!	Cell Count Error!
Battery Type	The battery type is wrong!
Capacity Limit!	Charge/Discharge capacity exceeds the MAX.Capacity limits set in the system setting.
Time Limit!	Charge/Discharge capacity exceeds the Safety Timer limits set in the system setting.
Int. Temp. Too High!	The internal temperature is high!
Parallel charge and DC power can't operate together!	Parallel charge and DC power can't operate together!
Overload Protection!	The charger is overloaded!
Reversed Polarity!	The battery connection is reversed!
Fully Charged!	The battery is fully charged already!
Output Overload!	Output Overload!
Balance Port Error!	Balance Port Error!
Cell Volt Diff!	The voltage difference between each cell is high!
The Allocable Power has Reached its Maximum.	The Allocable Power has Reached its Maximum.
No Current!	No Current Detected at Discharge Terminal!
Offline!	Discharger offline.
Ensure the Correct Discharger!	Ensure the Correct Discharger!
Port Voltage Exceeds Set Voltage!	DC Power Supply Output Port Voltage Exceeds Set Value!
No Available Power Output!	No Available Power Output!
Reverse Dchg and DC Power can't run together!	Reverse Dchg and DC Power can't run together!
Input volt. > 40V! Mismatch with reverse discharge settings!	DC input>40V! Incompatible with Reverse Discharge Mode!
Reverse discharge power < 20W	Reverse discharge power < 20W. Incompatible with Reverse Discharge Mode!
PD active, limited reverse discharge power!	PD active, limited reverse discharge power!

Settings

On the main interface, hold the Start button for five seconds to enter the system settings.

Menu	Option	Definition
⊞ Task Parameters	⏱ Safety Timer	Customize a period for program protection.
	▣ Max.Capacity	Customize the maximum capacity.
	⌐ Trickle Charge	Enable/disable trickle charge.
	⊙ Keep Voltage	Enable/disable holding voltage.
		If the difference great than 0.02V between each cells detected, a small current will be applied to keep the battery voltage.
	↩ Back	Back to the previous interface.
↟↧ Preference	⊕ Language	Select your desired system language.
	⊛ Max. Input Power	AC Input: 500W
		DC Input: 100~1600W, default: 1000W
	⋈ Min. Input Voltage	9-34.5V adjustable, default: 10V
		In DC Input, set the minimum voltage for input protection.
	☼ LCD BackLight	Adjust the brightness of the screen.
	◁ Keypress Beep	Adjust/Turn off the volume of the keypress beep.
	◁ Notify Beep	Adjust/Turn off the volume of the notify beep.
	♩ Completion Tone	Choose the way you'd like to be reminded when the program completes. If Repeat is chosen, the charger will play the completion signal every half an hour.
	⚠ Warning	Enable/disable boot warning.
	↩ Back	Back to the previous interface.
⊘ Battery Meter	N/A	Measure the battery voltage and internal resistance. (switch between ports A and B by pressing the Port button.)
↻ Factory Setting	N/A	Restore to the factory setting.
▢ User Guide	N/A	Scan the QR code to access the user manual.
ⓘ System Info	N/A	Check the current system status.
⊙ Regulatory	N/A	Check regulatory information.
↩ Back	N/A	Back to the previous interface.

Conformity Declaration

D750 MIX satisfies all relevant and mandatory CE directives and FCC Part 15 Subpart B.

Test Standard	Title	Result
EN 62368-1	Audio/Video, Information and communication technology equipment part 1: Safety requirement	Conform
EN-55032	Electromagnetic compatibility of multimedia equipment - Emission requirements	Conform
EN-55035	Electromagnetic compatibility of multimedia equipment - Immunity requirements	Conform
EN 61000-3-2	Electromagnetic compatibility (EMC) – Part 3-2: – Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	Conform
EN 61000-3-3	Electromagnetic compatibility (EMC) - Part 3-3: Limitation of voltage supply systems for equipment with rated current ≤ 16 A.	Conform
EN 300328	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive.	Conform
EN 301489-1 EN 301489-17	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements. Part 17: Specific conditions for Broadband Data Transmission Systems.	Conform
EN 50663: 2017	Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 Ghz)	Conform
EN 62479	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 Ghz)	Conform
FCC Part Subpart 15B	Title 47 Telecommunication PART 15 - RADIO FREQUENCY DEVICES Subpart B - Unintentional Radiators	Conform

Warranty and Service

Liability Exclusion

This charger is designed and approved exclusively for use with the types of battery stated in this Instruction Manual. SkyRC accepts no liability of any kind if the charger is used for any purpose other than that stated. We are unable to ensure that you follow the instructions supplied with the charger, and we have no control over the methods you employ for using, operating, and maintaining the device. For this reason, we are obliged to deny all liability for loss, damage, or costs that are incurred due to the incompetent or incorrect use and operation of our products, or which are connected with such operation in any way. Unless otherwise prescribed by law, our obligation to pay compensation, regardless of the legal argument employed, is limited to the invoice value of those SkyRC products which were immediately and directly involved in the event in which the damage occurred.

Warranty and Service

We guarantee this product to be free of manufacturing and assembly defects for a period of one year from the time of purchase. The warranty only applies to material or operational defects, which are present at the time of purchase. During that period, we

will repair or replace free of service charge for products deemed defective due to those causes.

This warranty is not valid for any damage or subsequent damage arising as a result of misuse, modification, or as a result of failure to observe the procedures outlined in this manual.

Note:

1. The warranty service is valid in China only.
2. If you need warranty service overseas, please contact your dealer in the first instance, who is responsible for processing guarantee claims overseas. Due to high shipping costs, and complicated custom clearance procedures to send back to China, please understand that SkyRC can't provide warranty service to overseas end users directly.
3. If you have any questions which are not mentioned in the manual, please feel free to send an email to info@skyrc.com

The manual is subject to change without notice; please refer to our website for the latest version!

SKYRC

CE FC

RoHS