

Thank you for purchasing our products. This 3-in-1 program card is used to set the programmable items for ESCs and stabilizers and measure the voltage for Li-Po battery. Its friendly LCD interface makes the programming and measurement easy. Please read this manual carefully before using it.

Introduction

Functions

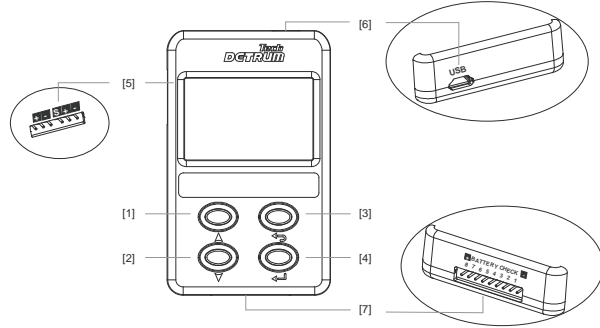
This 3-in-1 program card works in the following ways:

- Connect with the ESC to set its programmable items. It is applicable for Skylord Advanced series brushless aircraft ESCs, Volcano series brushless car ESCs, etc.
- Connect with the stabilizer or sport receiver (with a built-in stabilizer) to set its programmable items. It is applicable for ISTONE-All stabilizer, MSR66A sport receiver, etc.
- Work as a voltmeter to measure the voltage of the whole battery pack and each cell. It is suitable for 2S to 8S Li-Po battery.

Specification

Size (L*W*H):	52.0mm*85.6mm*17.6mm
Weight:	45g
Input Voltage:	5V~12V
Interface:	Micro USB, ESC interface, Li-Po battery interface

Description of Each Button and Port



No.	Button & Port ID	Description
[1]	▲	Change the programmable items or its value circularly in upward direction.
[2]	▼	Change the programmable items or its value circularly in downward direction.
[3]	←	Exit the setting process of a programmable item. Back to the previous menu.
[4]	→	Enter the setting process of a programmable item.
[5]	ESC	Connect the ESC to the program card from the ESC port. For the ESC without built-in BEC, an extra power supply (5V~12V) should be connected to the program card from the USB port (on the left of ESC port).
[6]	USB	Connect to the USB port of stabilizer or sport receiver (with a built-in stabilizer) to adjust the programmable items.
[7]	BATTERY CHECK	Connect to the balance charging connector of the battery to measure the voltage of the whole battery pack and each cell.

Setting the ESC with the Program Card

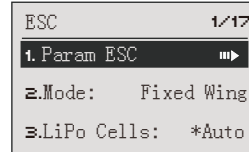
The program card can be used to set parameters for the ESC. It is applicable for Skylord Advanced series brushless aircraft ESCs, Volcano series brushless car ESCs,

etc.

Setting Method:

1. Connect ESC to program card correctly according to the different type of the ESC.
 - ESC has built-in battery elimination circuit (BEC), and a separated program port: Use a program wire to connect the ESC port of the program card to the ESC at its program port.
 - ESC has no built-in BEC, and has a separated program port: Use a program wire to connect the ESC port of the program card to the ESC at its program port. And an additional battery pack (5V to 12V) is needed to power the program card by the USB port (on the left of ESC port).
2. Connect the ESC to the battery and switch it on.

After successfully read the ESC, the program card will directly enter its main interface. Take the Skylord Advanced series ESC as an example, the main interface is shown as the figure. The item **Param ESC** is used to display the operating data of the ESC. The others are the programmable items.



Caution: Connect the ESC to the program card first, and then power on the ESC. Otherwise, it will fail to connect. Please check the wiring, and then turn off and start the power again.

3. To view the operating data of the ESC.

You can check the last operating data of the ESC by the program card, including minimum voltage (Min Volt), maximum temperature (Max Temp), and maximum current (Max Curr).

On the main interface, press ▲/▼ to select **Param ESC**, then press → to enter the operating parameter interface.

4. Set the ESC programmable items.

- To customize the ESC programmable items:
 - (1) On the main interface, press ▲/▼ to select the item, and press → to enter the setting process, and then press ▲/▼ to set the value.
 - (2) After setting this parameter, press ← to exit the setting process.
- To reset the ESC to factory defaults:

On the main interface, press ▲/▼ to select **Load Default**, then press → to confirm. Then all programmable items are reset to factory defaults.

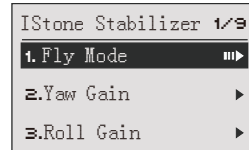
Setting the Stabilizer with the Program Card

Set the Programmable Items

The program card can be used to set parameters for a stabilizer or a sport receiver (with a built-in stabilizer). It is applicable for ISTONE-All, MSR66A, etc.

Setting Method:

1. After powering on the stabilizer or sport receiver, connect it to the program card with a USB cable. After successfully read the parameters, the program card will directly enter the main interface.



2. Set the programmable items. The items include: Fly Mode, Yaw Gain, Roll Gain, Pitch Gain, Roll Offset, Pitch Offset, Mount Dir, and Wing Type.

CAUTION: First set the mounting direction and wing type, and then set the level offset, gain, etc.

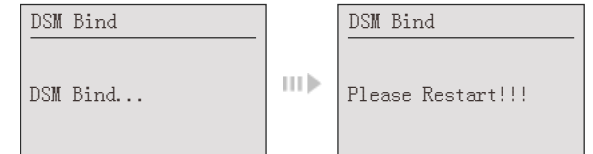
- For programmable items without submenus:
 - (1) On the main interface, press ▲/▼ to select the item, and press → to enter the setting process, and then press ▲/▼ to set the value.
 - (2) After setting this parameter, press ← to exit the setting process.
- For programmable items with submenus:
 - (1) On the main interface, press ▲/▼ to select the item, and press → to enter the sub-settings.
 - (2) Press ▲/▼ to select the parameter, and press → to enter the setting process, and then press ▲/▼ to set the value. After setting the parameter, press ← to exit.
 - (3) After setting all the parameters, press ← to exit the setting process.

DSM Bind

When connecting the ISTONE-All with a DSM2/DSMX receiver, you can set the DSM2/DSMX receiver to binding process by the program card.

Setting Method:

1. After connecting a DSM2/DSMX receiver to the ISTONE-All, power on ISTONE-All. Then connect it to the USB port of the program card using.
2. On the main interface, press ▲/▼ to select **DSM Bind**, then press → to enter the **DSM Bind** interface.



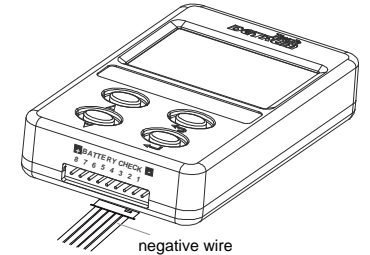
3. Turn off the ISTONE-All and power on it again. Then the connected DSM2/DSMX receiver will enter binding process.
4. Put the transmitter in bind mode, the system begins to bind.

Measuring the Battery Voltage with the Program Card

The program card can work as a voltmeter to measure the voltage of the whole battery pack and each cell. It is suitable for 2S to 8S Li-Po battery. It is suitable for 2S to 8S Li-Po battery.

Setting Method:

1. As shown in the figure, plug the balance charge connector of the battery pack into the BATTERY CHECK port. Make sure that the negative pole points to the "-" symbol on the program card.



2. After connecting the battery pack, the program card will display the voltage of the whole battery pack and each cell.

LiPo Cells Voltage	
1st: 4.16V	2nd: 4.46V
3rd: 4.19V	4th: 4.00V
5th: 0.00V	6th: 0.00V
7th: 0.00V	8th: 0.00V
Total Cell: 16.82V	