



M7

ToolkitRC M7

Multifunctional charger, discharger and RC tester – 200 W, 10 A, 1-6S



Please read this manual carefully before first use and keep it for future reference. Always charge and discharge batteries under supervision. The product is intended for persons aged 14 and over.

User manual – English version. Based on the original manufacturer's manual ToolkitRC "M7 Manual V1.0" (01/2021).

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1. Introduction and safety instructions

1.1 Introduction

Thank you for purchasing the ToolkitRC M7 – a multifunctional model tool chain product that integrates a balance charger and discharger, a power meter, a signal measuring device and a signal source in one compact unit. Please read this manual carefully before using it.

Further information: to stay up to date with news, information and firmware updates for your charger, visit the manufacturer's website www.toolkitrc.com. The contact details of the importer for the Czech Republic and the EU are given in Chapter 8.1.

Notation used in this manual: the * symbol marks a tip or additional information; text highlighted in red marks an important warning. Menu item names are given as displayed by the device, in italics. A short press of the scroll wheel confirms a selection – referred to as [OK] in this manual; the Exit button is referred to as [Exit].

1.2 Manufacturer's safety instructions

- ① The M7 allows an input voltage of **7-28 V**. To ensure that the power supply voltage is consistent, pay attention to the positive and negative polarity of the power supply when connecting.
- ② Do not use this product in an environment of heat, humidity, flammable or explosive gas.
- ③ Please use this product only when someone is on guard, to prevent accidents.
- ④ When not using this product, please unplug the input power in time.
- ⑤ When using the charging function, please set a current that matches the battery. Do not set an excessive current for charging, to avoid damage to the battery.

1.3 General rules for safe battery handling

- Charge and discharge only on a non-flammable surface, at a sufficient distance from flammable objects. We recommend charging lithium batteries in a protective Li-Po safe bag.
- Never charge damaged, swollen, deformed, punctured or deeply discharged batteries. If a battery heats up excessively, swells, smokes or smells during charging, disconnect it immediately and also disconnect the power supply of the device.
- Before starting a task, always check the selected battery type, the number of cells and the set current. Incorrect settings can destroy the battery and cause a fire.

- Always connect lithium batteries (LiPo, LiHV, LiFe, Li-Ion) to the balance port as well – only then can the device monitor the voltage of the individual cells.
- Observe the correct polarity and never short-circuit the input, output or balance port. Do not use damaged cables or connectors.
- Do not cover the ventilation openings or the fan. The device heats up during operation; place it on a firm, flat and non-flammable surface.
- When testing electronic speed controllers (ESC) and motors, always remove the propeller first and secure the model against movement.
- When using the adjustable power supply function, set the voltage and current before connecting the load and make sure that the connected device is designed for the set voltage.
- The product is not a toy. It is intended for persons aged 14 and over; keep it out of the reach of children.
- After finishing work, disconnect both the battery and the power supply. Store lithium batteries charged to storage voltage (LiPo and LiHV approximately 3.8 V per cell) in a safe place.

2. Product description and layout

2.1 Product description

The M7 is a multifunctional tool chain product that integrates functions such as a balance charger and discharger, a power meter, a signal measuring device and a signal source.

- Charging, discharging and balance management of **LiPo**, **LiHV**, **LiFe** and **Li-Ion 1-6S**, **NiMH 1-16S** and lead-acid **Pb 1-10S** batteries.
- Charge current: max. 10 A at max. 200 W.
- Discharge current: *Recycle* mode max. 10 A at 200 W, *External* mode max. 10 A at 200 W, internal mode max. 3 A at 10 W.
- Adjustable cut-off voltage of lithium cells (TVC function).
- Measurement of battery voltage and cell internal resistance, balance management of lithium batteries.
- Measurement of PWM/PPM/SBUS signal values with an accuracy of 1 μ s.
- Output of standard PWM/PPM/SBUS signals with an accuracy of 1 μ s.
- Constant current and constant voltage source output (CC/CV): customizable 1-28 V constant voltage, 1-10 A constant current.
- Can be adapted to mainstream drone batteries – automatically activated and charged (Chapter 4.11).
- Multi-language system; additional languages can be added by upgrade.
- USB 5.0 V / 2.1 A output for charging mobile devices.
- Firmware upgrade: the device is simulated as a USB disk, simply copy the upgrade file to it.

2.2 Device layout

Controls and ports on the front and back of the device:



Front

- ① Display
- ② Scroll wheel – turn left/right to navigate the menu and change values, press to confirm the selection [OK]
- ③ [Exit] button
- ④ Output port (*Output*) – connection of the battery to be charged / discharged and power supply output
- ⑤ Balance port

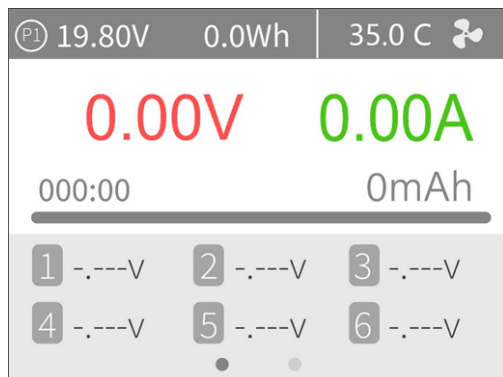


Back

- ⑥ Input (power supply) port 7-28 V
- ⑦ Signal port (signal measurement and output, ESC test)
- ⑧ USB port – 5 V output and firmware upgrade
- ⑨ Cooling fan

3. Quick start

- ① Connect the 7-28 V power supply to the input port on the back of the M7.
- ② The display shows the boot logo and stays for 2 seconds.
- ③ Simultaneously, the do-re-mi boot sound is played.
- ④ After the boot is completed, the screen enters the main interface:



Main interface

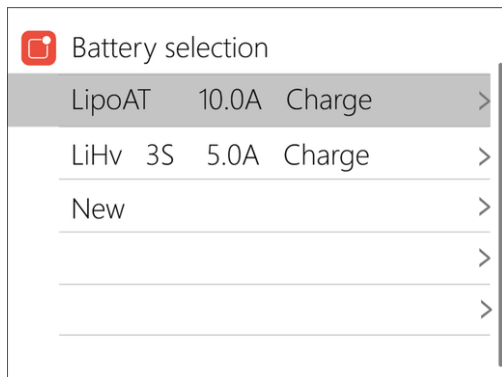
- ⑤ Long press [Exit] to enter the auxiliary function interface (Chapter 5).
- ⑥ Scroll the scroll wheel to switch between the display pages.
- ⑦ Short press [OK] to select the charging task when the charger is idle. You can adjust and finish the work when the charger is working.
- ⑧ Long press [OK] to enter the system setting interface when the charger is idle (Chapter 6).
- ⑨ Short press [Exit] to end the modification or return to the previous interface.

✳ Operating tips

- Short press of the scroll wheel = confirm the function [OK].
- Long press of the scroll wheel (2 seconds) = delete key function.
- Every successfully operated key is confirmed by a beep.

4. Charging and discharging

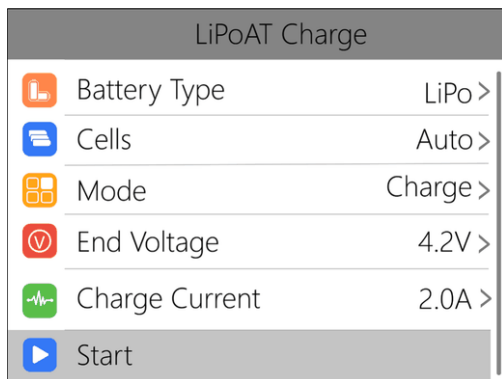
In the main interface, short press [OK] to enter the charging function. If the *Battery selection* option is enabled in the system settings, the list of saved battery profiles is displayed first:



Battery profile selection (Battery selection)

4.1 Battery selection and battery type

Scroll the scroll wheel to move the cursor to a battery profile that has already been set, or create a new one with the *New* item – up to 32 profiles can be created. Press the scroll wheel to enter the battery setting interface of this profile:



Battery profile settings

Move the cursor to the *Battery Type* item and press [OK] to open the list of battery types:

 Battery Type

Lipo

LiHv

LiFe

Lion

NiMh

Battery type selection

The charger supports charging and discharging of 6 types of batteries: **LiPo**, **LiHV**, **LiFe**, **Lion** (Li-Ion), **NiMh** and **PB**. There is also a smart drone battery mode to choose from (UAVbat, Chapter 4.11). Select the battery type that matches the actual battery, short press [OK] to confirm and press [Exit] to return to the previous interface.

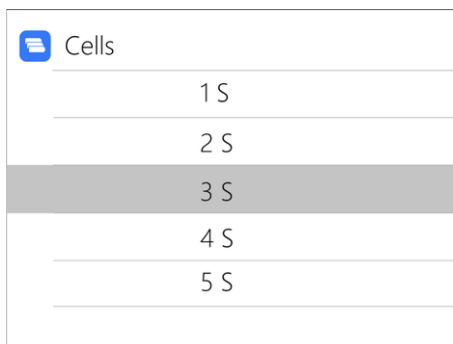
Warning: ① **Choosing the wrong battery type to charge may damage the battery and the charger and cause burns or fire. Please choose carefully.** ② **Please do not use this product to charge batteries that are not marked with the battery type (chemistry).**

Glossary – battery types

- **LiPo** – lithium polymer battery with a nominal voltage of 3.70 V and a fully charged cell voltage of 4.20 V.
- **LiHV** – high-voltage lithium polymer battery with a nominal voltage of 3.85 V and a fully charged cell voltage of 4.35 V.
- **LiFe** – lithium iron phosphate battery with a nominal voltage of 3.30 V and a fully charged cell voltage of 3.60 V.
- **Lion** – lithium-ion battery (Li-Ion) with a nominal voltage of 3.60 V and a fully charged cell voltage of 4.10 V.
- **NiMh** – nickel-metal hydride battery, nominal voltage 1.20 V per cell.
- **PB** – lead-acid battery, nominal voltage 2.00 V per cell.

4.2 Number of cells (Cells)

Move the cursor to the *Cells* item and press [OK] to modify the number of cells of the battery:



Setting the number of cells

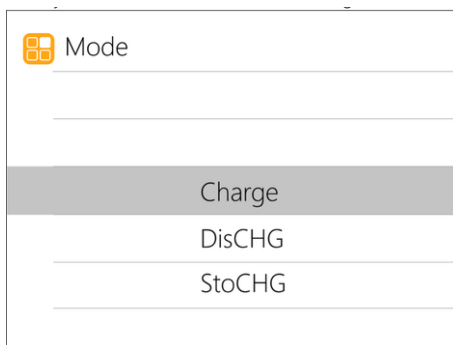
Rotate the scroll wheel to adjust the value. When set to *Auto*, the charger will automatically identify the number of cells according to the voltage of the battery connected to the output port. Short press [OK] and [Exit] to take effect and return to the previous interface.

✿ Tips

- If the connected battery is over-discharged or over-charged, the number of cells may be identified incorrectly – in that case, set the correct number of cells manually.
- If the number of cells is set incorrectly, the battery may be charged insufficiently, or overcharged and damaged. Please set it carefully.
- If a lithium battery (Lixx) is also connected to the balance port, the number of cells can be identified more accurately.

4.3 Work mode (Mode)

Move the cursor to the *Mode* item and press [OK] to select the work mode:



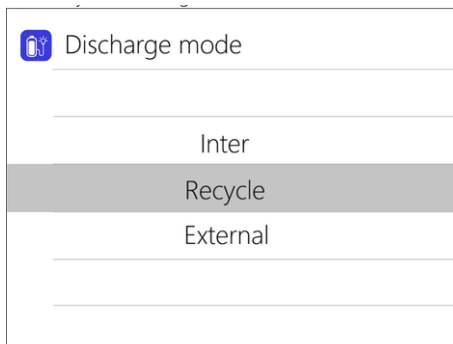
Work mode selection

LiPo, LiHV, LiFe and Li-Ion batteries can be charged (*Charge*), discharged (*DisCHG*) and charged or discharged to storage voltage (*StoCHG*). NiMH batteries can

choose charge, discharge and cycle (*Cycle*). Lead-acid (Pb) batteries can choose charge and discharge. Short press [OK] and [Exit] to take effect and return to the previous interface.

4.4 Discharge mode (Discharge Mode)

When the work mode is discharge, storage or cycle, the *Discharge Mode* item is added to the battery settings. Move the cursor to it and press [OK] to select the discharge mode:



Discharge mode selection

The charger supports three discharge modes:

- ① **Inter** (internal) – discharge through internal heat consumption; max. 3.0 A at 10 W.
- ② **Recycle** – when the input is battery power, the energy is recovered to the input battery through this function; max. 10.0 A at 200 W.
- ③ **External** – when the input port is connected to a discharge load and the output port is connected to the battery, the battery can be discharged through this function; max. 10.0 A at 200 W.

4.5 Maximum input voltage (Input MaxVol)

When the discharge mode is set to *Recycle*, the *Input MaxVol* item is added to the battery settings. Move the cursor to it, press [OK] and adjust the maximum input voltage. If the input voltage reaches this value during discharge, the discharge will stop:

	Input MaxVol
	27.8V
	27.9V
	28.0V

Maximum input voltage

✳ **Please set the maximum input voltage to the highest protection voltage of the power supply battery. After this voltage is reached, the charger will automatically stop recycle discharging. Setting too high a voltage may damage the input power supply.**

4.6 End voltage (End Voltage, TVC)

Move the cursor to the *End Voltage* item and press [OK] to modify the end voltage of a single cell. When the work mode is charge, it is the charge cut-off voltage, and the range is plus or minus 50 mV of the full voltage. When the work mode is discharge, it is the discharge cut-off voltage. Scroll the scroll wheel to adjust the value in steps of 0.01 V:

	End Voltage
	4.18V
	4.19V
	4.20V
	4.21V
	4.22V

End voltage setting

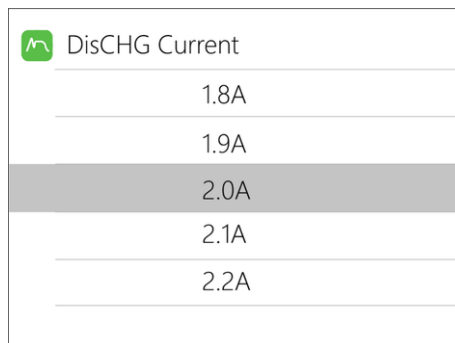
✳ Tips

- Only LiPo, LiHV and LiFe batteries can set the cut-off voltage.
- Do not modify the cut-off voltage if you are not familiar with the battery characteristics.
- The charging cut-off voltage can be set in a range of plus or minus 50 mV of the full voltage.

- TVC is the abbreviation of *terminal voltage control*.

4.7 Current setting

Move the cursor to the *Charge Current* or *DisCHG Current* item and press [OK] to modify the current. Rotate the scroll wheel to adjust the value in steps of 0.1 A; scroll quickly to increase or decrease faster. The charger supports up to 10.0 A:



Current setting

❖ Tips

- Please set the charging rate of 1-2 C according to the battery capacity. For example, if the battery capacity is 2000 mAh, please set the charge current to 2.0-4.0 A.
- The charge or discharge current is only valid in the corresponding work mode.
- The discharge mode is selected in the battery profile settings (Chapter 4.4). Recycle discharging (*Recycle*) is only available if the power type in the system settings is set to battery (Chapter 6.1).

4.8 NiMH setting (Nixx Peak)

For NiMH batteries, the voltage drop value (*PeakV*, delta peak) at which the charger detects a fully charged battery can be set. The range is 5-15 mV:

 Nixx Peak
5mv
6mv
7mv
8mv
9mv

NiMH voltage drop setting

❖ Tips

- Only NiMH batteries can set the negative voltage drop.
- PeakV: when a nickel-metal hydride battery is fully charged, the cell voltage peaks and then starts to drop; this voltage drop signals the end of charging.

4.9 Cycle setting (Cycle)

When the battery type is NiMH and the work mode is *Cycle*, the *Cycle times* and *Rest time* items are added to the battery settings:

NiMhAT Cycle	
 Nixx Peak	5mV >
 Charge Current	2.0A >
 DisCHG Current	2.0A >
 Cycle times	2 >
 Rest time	2Min >
 Start	

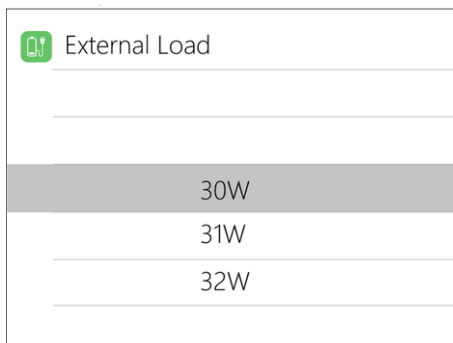
NiMH cycle settings

Move the cursor to *Cycle times* and press [OK] to set the number of cycles in the range 2-12. The charger will then follow the pattern discharge → charge → discharge → charge...; one "discharge → charge" sequence corresponds to the value 2.

Move the cursor to *Rest time* and press [OK] to set the rest time between the individual cycles in the range 2-10 minutes.

4.10 External load (External Load)

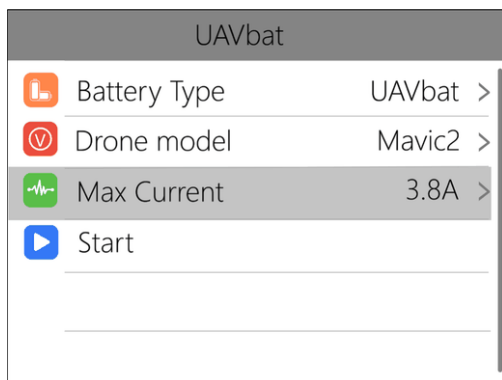
When *External* is selected as the discharge mode, the *External Load* item is added. Set the wattage (W) according to the external load actually used:



External load setting

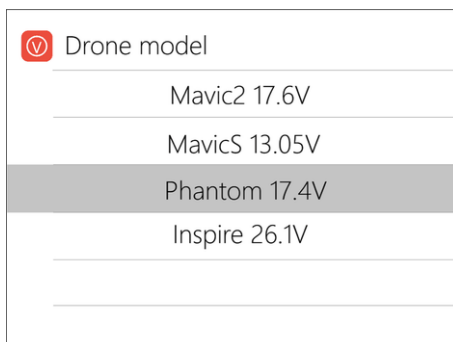
4.11 Smart drone battery (UAVbat)

When *UAVbat* is selected as the battery type, there are only two options in the battery settings: the drone model (*Drone model*) and the maximum current (*Max Current*):



Smart battery profile

Move the cursor to *Drone model* and press [OK] to select the drone model:

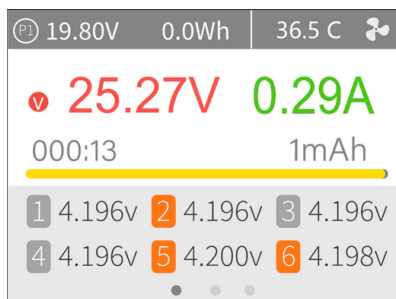


Drone model selection

Move the cursor to *Max Current* and press [OK] to set the charge current in the range 0.5–10 A.

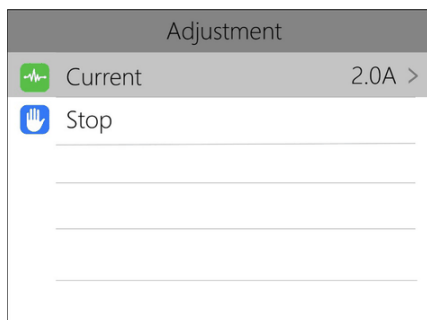
4.12 Charge and discharge operation

When charging or discharging starts (*Start* item), the charger enters the working interface:



Working interface – cell voltages

Rotate the scroll wheel on this interface to switch the bottom part of the display between the cell voltages, the cell internal resistance and the task information. Short press [OK] to dynamically set the working current or stop working:



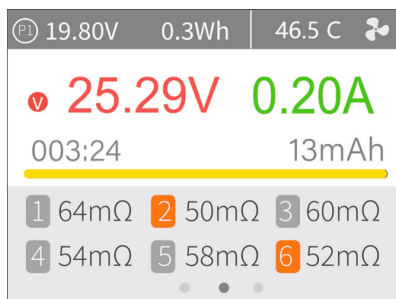
Current adjustment and stopping the task

To end the charge or discharge work, short press [OK], move the cursor to *Stop* and short press [OK] again. The task stops and the device returns to the main interface. When charging is complete or a charge error occurs, a prompt box pops up with a sound.

Description of the working interface

- **P1** – power supply profile selected in the system settings (*Power selection*)
- **19.80 V** – input power supply voltage
- **0.0 Wh** – accumulated energy consumed from the input power supply
- **36.5 °C** – internal temperature of the charger
- **V** – constant voltage phase, **C** – constant current phase
- **25.27 V** – main (output) port voltage
- **0.29 A** – main port current
- **000:13** – working time
- **1 mAh** – cumulative capacity charged (discharged) so far
- **1 4.196 V** – voltage of the first cell ... **6 4.198 V** – voltage of the sixth cell (the highlighted cell is under balance management)
- **-.--- V** – no cell connected

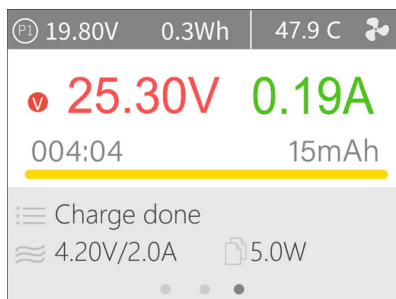
Scroll the scroll wheel to switch to the second column – the internal resistance of the cells:



Working interface – cell internal resistance

1 64 mΩ – internal resistance of the first cell, and likewise for the other cells.

Scroll the scroll wheel again to switch to the third column – the task information:



Working interface – task information

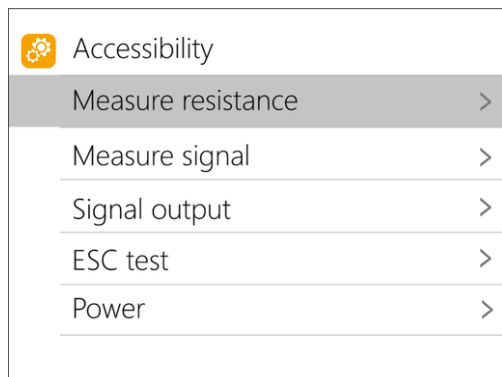
- **Charge done** – current charging status
- **5.0 W** – current charging power
- **4.20 V / 2.0 A** – end voltage / charge current

✳ Important notes

- ① When charging and discharging, please have someone on duty throughout the process to deal with abnormalities in time.
- ② When charging and discharging lithium batteries connected only to the main port, no balance management is performed. Please pay attention to the balance of the battery – after connecting to the balance port, the charger balances automatically.
- ③ After charging is completed, you can unplug the battery and insert a new one – the device automatically continues to charge and discharge according to the set mode (if the *Continuous work* function is enabled, Chapter 6.1). When set to a fixed number of cells, the next battery must have the same number of cells. When set to automatic detection, please check whether the detected number of cells matches the actual number.

5. Auxiliary functions

Long press [Exit] in the main interface (when the charger is idle) to enter the auxiliary function interface (*Accessibility*):



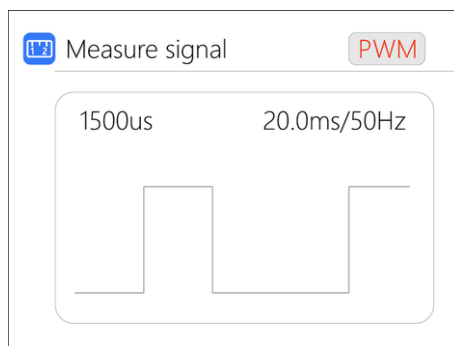
Auxiliary function menu

5.1 Internal resistance measurement (Measure resistance)

Short press [OK] to test the internal resistance of the connected battery; the result is displayed in the main interface.

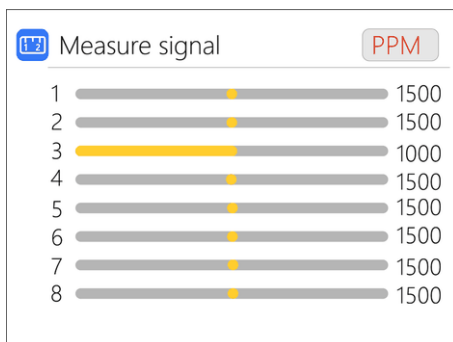
5.2 Signal measurement (Measure signal)

Select *Measure signal* with the cursor and short press [OK] to enter the signal test interface. Scroll the scroll wheel to select the type of signal to be tested. When PWM is selected, the pulse width and the cycle / frequency are displayed:



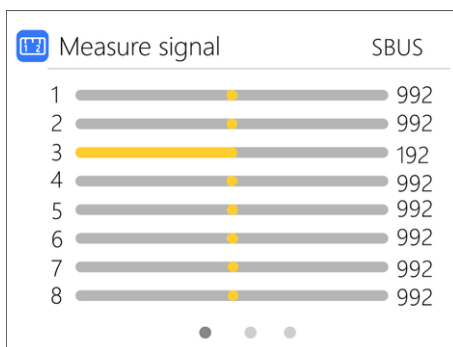
PWM signal measurement

When PPM is selected, the values of the individual channels are displayed:



PPM signal measurement

When SBUS is selected, scroll the scroll wheel to switch between the display of channels 1-8, channels 9-16 and the status bits (digital channels *DG1* and *DG2*, *Frame lost*, *Failsafe*, *Endbyte*). Channels 1-8:



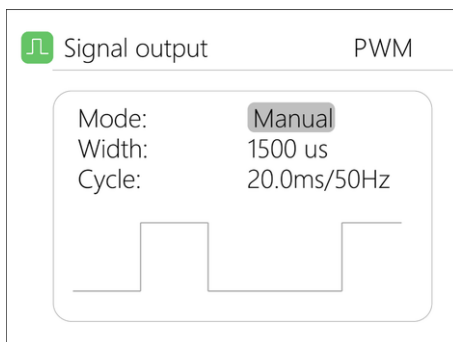
SBUS signal measurement – channels 1-8

5.3 Signal output (Signal output)

Select *Signal output* with the cursor and short press [OK] to enter the signal generator interface. Scroll the scroll wheel to select the type of signal – choose PWM first.

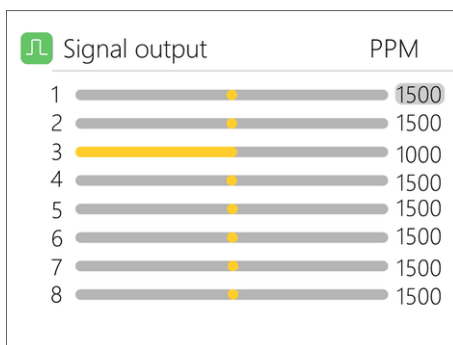
Move the cursor to the *Mode* item and press [OK] to set the output mode: *Manual*, *Auto 1*, *Auto 2* or *Auto 3*. In *Manual* mode, you can move the cursor to the *Width* (pulse width) and *Cycle* items and set the signal values to be output. When set to *Auto 1-3*, the pulse width of the output PWM signal changes automatically at 3 different speeds.

The width can be set from 800 to 2200 μ s, the cycle in the range 2.5 ms (400 Hz) to 50.0 ms (20 Hz):



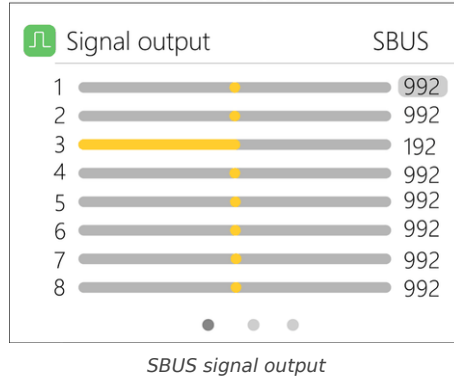
PWM signal output

When PPM is selected, scroll the scroll wheel to move the cursor to the value of the channel to be modified and press [OK] to modify the output pulse width of this channel:



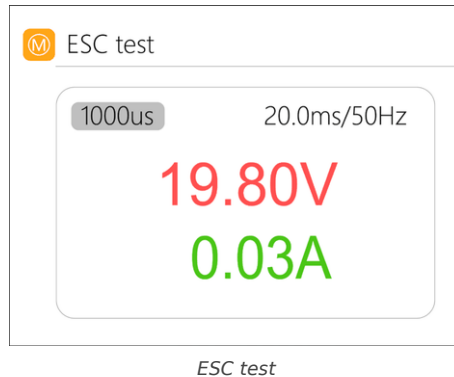
PPM signal output

When SBUS is selected, scroll the scroll wheel to move the cursor to the value of the channel to be modified and press [OK] to modify the output pulse width of this channel. As with measurement, you can switch between channels 1-8, channels 9-16 and the status bits:



5.4 ESC test

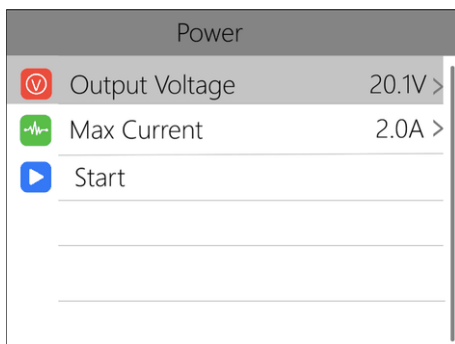
Select *ESC test* with the cursor and short press [OK] to enter the ESC (electronic speed controller) test. Scroll the scroll wheel to move the cursor to the pulse width or the cycle and press [OK] to change the corresponding value. The voltage and the current drawn are also displayed on the screen:



Before testing an ESC, always remove the propeller from the motor and secure the model against movement.

5.5 Adjustable power supply (Power)

Select *Power* with the cursor and short press [OK] to enter the adjustable power supply function. Set the output voltage (*Output Voltage*) and the maximum current (*Max Current*), move the cursor to *Start* and short press [OK] to start the power output. The device returns to the main interface:



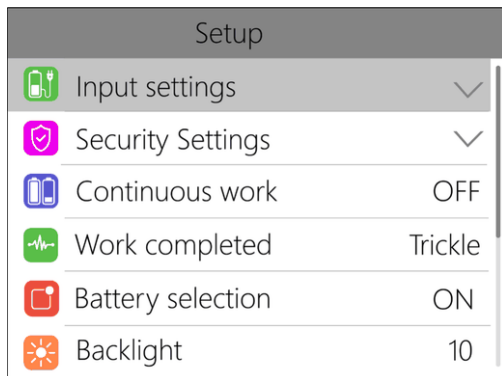
Adjustable power supply

Set the voltage and current before connecting the load to the output port and make sure that the connected device is designed for the set voltage.

6. System settings and other functions

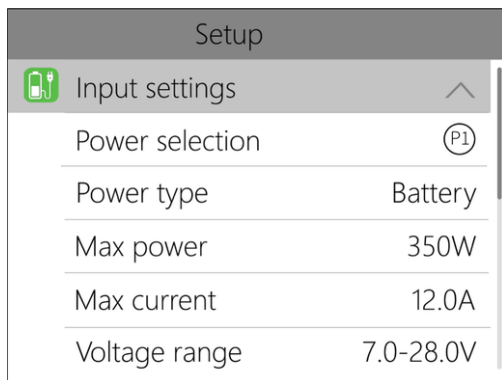
6.1 System settings (Setup)

Long press [OK] in the main interface (when the charger is idle) to enter the system setting interface:



System settings

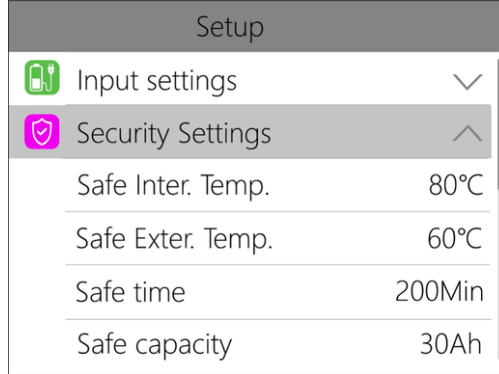
Input settings – input power related settings; short press to expand the settings:



Input power settings

- **Power selection** – choose power supply profile *Power 1*, *Power 2* or *Power 3*.
- **Power type** – power supply type: *Battery* (battery pack) or *Adapter*. A battery pack can be used for recycle discharging (*Recycle*), an adapter cannot.
- **Max power** – when charging, the maximum power absorbed from the input port.
- **Max current** – when charging, the maximum current drawn from the input port.
- **Voltage range** – allowable input voltage range.

Security Settings – safety limits; short press to expand the settings:

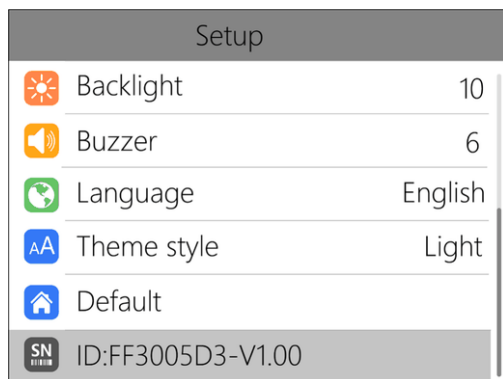


Safety limits

- **Safe Inter. Temp.** – above this internal temperature value, the device stops the main port output.
- **Safe Exter. Temp.** – if the external sensor detects a temperature higher than this value, the device stops the main port output.
- **Safe time** – the maximum time of continuous charging / discharging; the task stops if it is exceeded.
- **Safe capacity** – the maximum capacity charged / discharged in one task; the task stops if it is exceeded.

Other system setting items:

- **Continuous work** – whether to continue charging / discharging automatically after the task is completed and the battery is replaced.
- **Work completed** – whether to stop (*Stop*) or trickle charge (*Trickle*) after charging is done.
- **Battery selection** – enable / disable the battery profile selection interface.
- **Backlight** – backlight brightness level of the display, 1-10.



System settings – other items

- **Buzzer** – tone of the buzzer; can also be set to off.
- **Language** – system display language (*English*, *Chinese* and others).
- **Theme style** – light (*Light*) or dark (*Dark*) display theme.
- **Default** – restore all setting items to factory values.
- **ID** – independent ID of each device.

6.2 Firmware upgrade

After connecting the M7 to the computer with the USB data cable supplied in the box, the computer will recognize a USB disk named *Toolkit*. Download the upgrade file *app.upg* from the manufacturer's official website and overwrite the file on this disk – this upgrades the firmware.

6.3 USB 5 V output

In addition to the firmware upgrade function, the USB port also serves as a 5 V charging output for mobile devices (for the maximum current see Chapter 7).

6.4 Automatic continuation

When a battery is fully charged, unplug it, wait 2 seconds and connect the next battery – the device automatically continues to charge / discharge according to the set task. You can enable and disable this function in the system settings (*Continuous work*).

6.5 Fan control

When the internal temperature of the device exceeds 45 °C, the fan turns on at half speed to reduce noise. When the internal temperature exceeds 53 °C, the fan turns on at full speed to enhance heat dissipation.

6.6 Manual voltage calibration

In the powered-off state, press and hold the scroll wheel and connect the power supply – the device enters the manual voltage calibration function. Use a voltmeter to measure the actual voltage of each cell, move the cursor to the corresponding voltage value and modify it to match the voltmeter reading. After the calibration is completed, move the cursor to Save and short press the scroll wheel; the buzzer beeps once and the calibration is saved. Then exit or power off the device.

6.7 Fully charged

When a lithium battery is fully charged, the message "Fast charge is done" is displayed. If the battery is not removed, the device automatically continues with constant voltage trickle charging to bring the battery to a fuller state.

7. Specifications

Charging	Input	7–28 V, max. 12 A
	Battery types	LiPo, LiHV, LiFe, Li-Ion 1–6S NiMH 1–16S, Pb 1–10S
	Balance	400 mA, 2–6S
	Accuracy	< 0.005 V
	Charge power	0.1–10 A, 200 W
	Discharge power	0.1–10 A, 200 W (Recycle mode) 0.1–3 A, 12 W (internal mode)
	USB	2.1 A, 5 V; upgrade via USB 3.0
	Voltage measurement	1.0–5.0 V, 1–6S
	Internal resistance	1–100 mΩ, 1–6S
Signal measuring	PWM	880–2200 μs, 20–400 Hz
	PPM	880–2200 μs × 8 channels, 20–50 Hz
	SBUS	880–2200 μs × 16 channels, 20–100 Hz
Signal output	PWM	500–2500 μs, 20–1000 Hz
	PPM	880–2200 μs × 8 channels, 50 Hz
	SBUS	880–2200 μs × 16 channels, 74 Hz
	Power supply	1–10 A, 1–28 V, CC+CV mode
Display	LCD	IPS 2.0", 320 × 240 px
Product	Size	73 × 51 × 27 mm
	Weight	90 g
Packing	Size	84 × 79 × 39 mm
	Weight	150 g

※ The values are taken from the manufacturer's specification table. For power supply, use a regulated power supply or a battery with a voltage in the range 7–28 V that is able to deliver the required power. Neither a power supply nor a battery is included in the package.

8. Information for the EU and Czech Market

The information in Chapters 8 and 9 describes the situation in the Czech Republic, where the product was placed on the market. European Union regulations apply in all Member States, but national rules (in particular for the take-back of electrical equipment and the exercise of rights arising from defective performance) differ from country to country. **The governing law is the law of the country in which you operate the product** – if you use it outside the Czech Republic, follow the regulations of that country.

8.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorاما.cz
Phone	+420 252 252 098
Website	www.rotorاما.cz

8.2 Product conformity



- The product bears the **CE** marking and complies with the requirements of the applicable European Union harmonisation legislation.
- A copy of the **EU Declaration of Conformity** is available from the importer at the address stated above or at the e-mail address info@rotorاما.cz.
- **Product identification:** the type designation (M7) and the serial number are given on the rating label of the device and on the packaging.

8.3 Disposal of electrical equipment



- The crossed-out wheeled bin symbol on the product, its packaging or in the documentation means that at the end of its service life the product **must not be disposed of together with mixed municipal waste**.
- Hand it over at a take-back point for electrical equipment – at a collection yard, at a take-back point of a collective system, or at the retailer when purchasing a new equivalent product. Take-back is free of charge for the end user.
- The obligations under Act No. 542/2020 Coll., on end-of-life products, are fulfilled by the importer through a collective take-back system.
- Proper disposal helps prevent negative impacts on the environment and human health and contributes to the reuse of secondary raw materials.

Through its contractual partner **ASEKOL a.s.**, the company ensures the take-back of waste electrical equipment from households and the separate collection of waste electrical equipment, batteries and accumulators in accordance with the applicable legislation. The customer is entitled to hand over old electrical equipment or a battery or accumulator at any collection point of the above contractual partner. The addresses of these take-back points are listed at www.asekol.cz, www.ecobat.cz and also <https://visoh2.mzp.cz/RegistrMistZO/RegistrMistZOPublic/MapaMistZpetOdberu>.

9. Warranty and rights arising from defective performance

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 8.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.