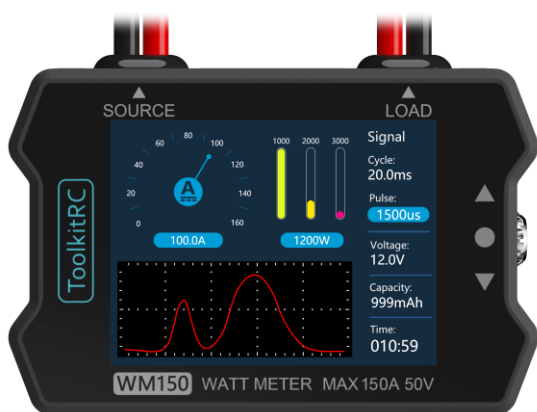# WM150

Manual V1.0
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ToolkitRC

www.toolkitrc.com

ToolkitRC Technology (Shenzhen) Co.. Ltd.

Thanks

Thank you for purchasing WM150 watt meter. Please read this manual carefully before use.

Key Points

💡 Tips   ⚠️ Important   📋 Information

Further Information

To ensure you have a more enjoyable experience, please use WeChat to scan the QR code below and use it to get the usage details, video teaching and latest information. Or visit www.toolketrc.com.

Applications

Video teaching

Product purchase

WeChat QR Code

⚠️ **Safety Precautions**

1, WM150 allows input voltage 1-50V in SOURCE port. When the input voltage is lower than 6V, need to provide USB5V power supply. To ensure that the power supply voltage is consistent, pay attention to the positive and negative polarity of the power supply when accessing.

2, Do not use this product in heat, moisture, flammable or explosive atmospheres.

3, Do not leave this product unattended while in use to prevent accidents.

4, Please unplug the input power timely when not using this product.

# **Contents**

Product overview

The WM150 is a voltage and current power tester.

- Output PWM signal with an accuracy of 1 microsecond.
- Low voltage alarm. When the voltage is lower than 6V and USB power is not supplied, it will alarm.
- Real-time detection of voltage, current, power, and displayed in curves or graphics.
- The device is simulated as a USB flash drive, and the upgrade file is copied to implement product firmware upgrade.

WM150 Layout

Displa

Knob
(press, lock)

Front

Load port

Source port

USB

Signal
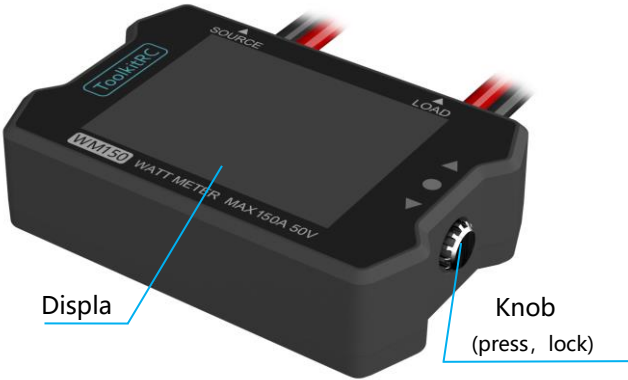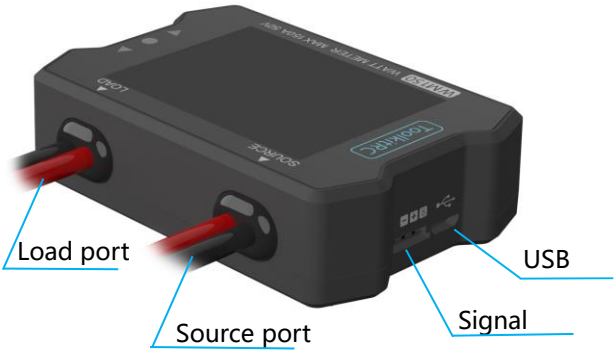
Back

First start

1. Connect the power supply of 1-50V voltage to the input port on the back of WM150. Need to provide USB5V power supply, when the voltage is lower than 6V. Otherwise it will alarm or not boot.
2. The display shows the boot logo and stays for 2 seconds.
3. Boot sound with do-re-mid Simultaneously.
4. After the boot is completed, the display enters the main interface as shown below:
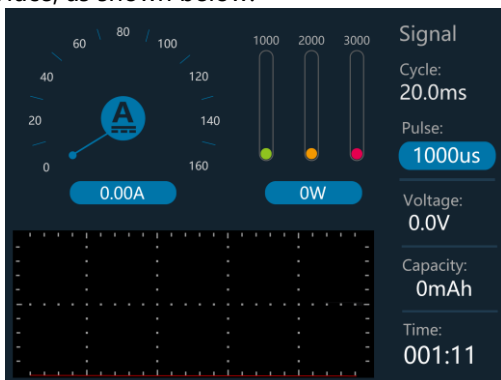

5. If the position of the knob is not at the minimum position, there will be a prompt "Please pay attention to the knob position" after booting, as shown below:
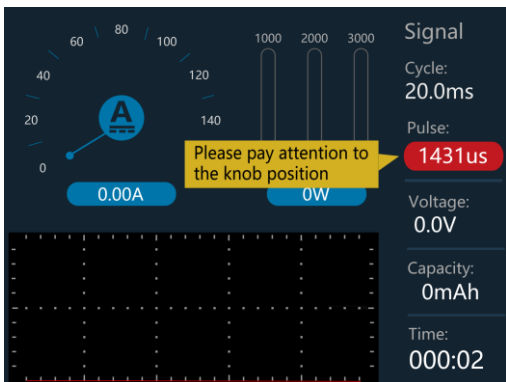
6. Turn the knob to the minimum to start using it.

Main interface

After booting, the system counts into the main interface, as shown below:

The dial on the left is a current display with an accuracy of 10 mA and a maximum acquisition current of 150 amps.

The middle histogram is the power display in watts.

The 20.0ms and 1000us on the right side are the period and pulse width of the output PWM signal. The period cannot be changed, and the pulse width is controlled by the knob.

The 11.2V on the right is the input voltage in volts.

The 0mAh on the right is the capacity accumulation. The unit will change with the size of the capacity. Less than 1 ampere, the unit is mAh. Otherwise it is ampere.

The lower right corner is the displayed working time in seconds.

The grid below is a graphical representation of the main port output current.

Other functions

Firmware upgrade:

After connecting the WM150 to the computer with the USB cable in the box. the computer will recognize the USB flash drive named Toolkit. Download the upgrade file app.upg on the official website to overwrite the files in the USB flash drive to upgrade the firmware.

Specification

Input	Voltage	1-50V@MAX150A
	USB	5.0V@1A Firmware upgrade@USB3.0
Output	PWM	1000us-2000us @50Hz
Display	LCD	TFT 2.4 inch 320*240 resolution
Product	Size	80mm*54mm*23mm
	Weight	120g
ndividual packing	Size	87mm*87mm*28mm
	Weight	140g