



PROTECTOR U8
Wireless Tattoo Machine

USER MANUAL

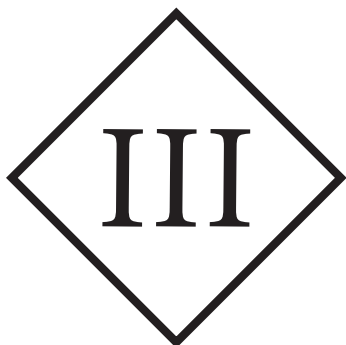


2024

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SAFETY NOTICE

**CLASS III SYMBOL**

A Class III appliance is designed to be supplied from a separated/safety extra-low voltage (SELV) power source. The voltage from a SELV supply is low enough that under normal conditions a person can safely come into contact with it, without risk of electrical shock. The extra safety features built into Class I and Class II appliances are therefore not required. For medical devices, compliance with Class III is not considered sufficient protection, and further more-stringent regulations apply to such equipment.

TECHNICAL DATA

Motor:	Customized PP brushless motor
Current:	0.5A
Frequency:	36 - 198Hz
Stroke:	4.0 mm
Connection:	TYPE-C port with 5V charger
Battery:	2200MA
Operating Mode:	Cutting lines, shading, and dotting
Ambient Temperature:	+10 to +35 °C
Relative Humidity:	30 to 75%
Dimensions (Ø X L):	33 x 120.7 mm
Weight:	172g (33mm grip)
Charging Time:	2 hours
Working Time:	5-6 hours

**BARRIER PROTECTING YOUR MACHINE**

Although the grip is autoclavable, we strongly suggest the use of barrier products to protect your machine. For a visual demonstration of many barrier protection methods, please visit our YouTube channel [Thunderlord Power](#).

This machine is not to be used by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge. Keep machine out of reach of children without parental supervision.

MACHINE OVERVIEW

The Thunderlord Power

Unleash your
Power

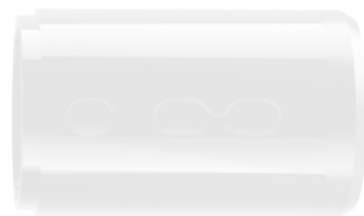


Wireless pen-style machine featuring a detachable battery,
and a whole new level of freedom.

THE GRIP



PROTECTOR-U8 Grip



Autoclavable Ergonomic Grip Design



Compatible with most tattoo cartridges on the market

THE GRIP

The PROTECTOR U8 grip allows artists ratcheting control over needle depth. The standard Grip has a diameter of 33mm. The grip is crafted from a solid rod of 6061 T6 aircraft-grade aluminum. This polished and anodized grip is safe to be sterilized under steam, in an autoclave or sprayed with cold sanitation solutions.

THE BODY

THE BODY

The body is the core of the machine, constructed from a solid rod of aircraft- grade aluminum,TP Z-Link K4.0 tattoo master structure, extreme stability, powerful output, this module should be sanitized by wiping it with cold sterilization solutions only.

Caution: Avoid getting fluids into the housing

DETACHING THE BATTERY



PROTECTOR-U8 Battery

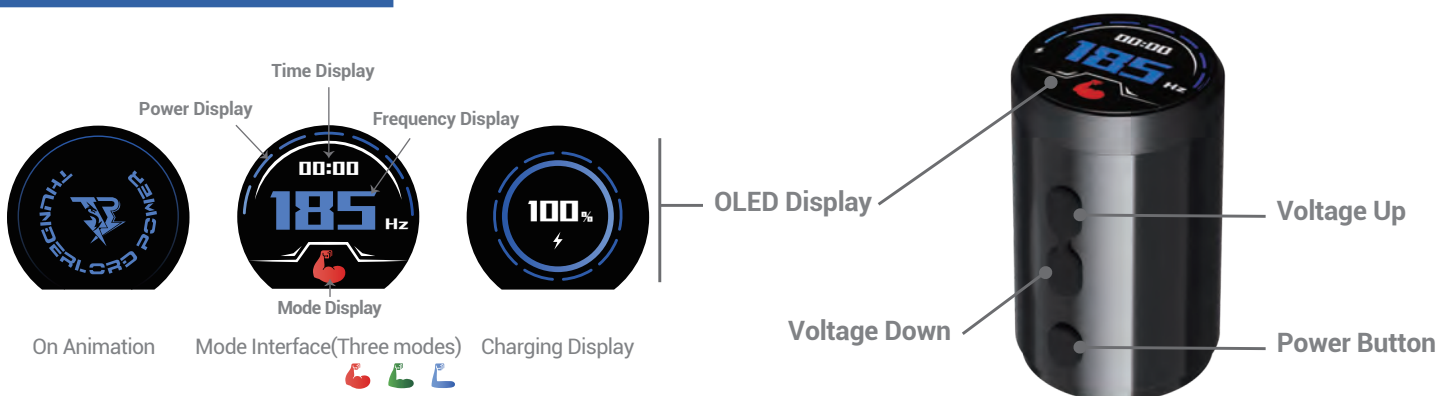


DETACHING THE BATTERY

To detach your battery, ensure you have a firm grip on the Body and Grip. Turn the battery counter clockwise battery counter clockwise To attach the battery, push in while twisting clockwise. Ensure that locking mechanism moves freely. The battery must sit correctly to ensure that the power leads align. Avoid contact with the battery leads while recharging or servicing.

Changeable Wired power supply mode RCA Connector.

CONTROL MENUS



7 grids of power, first grid = **10%**, other grids = **15%/grid**
 When the battery power is **less than 5%**, the last grid flashes.

Charging: When the device is turned off, connect the Type-C port to charge, the lightning icon flashes, and the outer ring of power rotates.

When the device is turned on, connect the Type-C port to charge, the lightning icon flashes, and the outer ring of power is updated in real time.

Note: ①For best results, please use the provided charging cable. Damage caused by charging with a voltage higher than 5V is not covered by the warranty.

②It is recommended to fully charge the battery before use.

③If the device cannot be turned on for the first time, please charge it for 4 hours before turning it on.

④If it is not used for a long time, please charge it once a month to avoid battery damage.

ON&OFF: Press the power button for 2s

The device will automatically shut down after 10 minutes of inactivity in the power-on pause mode.

STOP&START: Short press the power button for stop, any button for start (press the power button 2 times to switch mode)

FREQUEIVCY ADJUSTMENT: Short press "+"&"-" for 2Hz adjustment (36-198Hz available).

With infinite adjustment function, it is suitable for various tattooing style like dot, low frequency, high frequency, lining and shading. long press "+"&"-" for fast adjustment

FORCE ADJUSTMENT: When output is paused, double-click the power button continuously, the icon flashes, press "+" and "-" to switch the intensity, and press the power button to confirm the mode (or automatically confirm after 3 seconds).

 Strong mode,  Stable mode,  Soft mode.

TIMING FUNCTION: Start timing when working, reset when shutting down

The time is in minutes, and the maximum display time is 99:59. When it is paused, the time stops, and the time continues when the output is restarted.

TYPE-C CONNECTION



PROTECTOR-U8 Battery



TYPE-C Connector



Wired / RCA Connector

TYPE-C CONNECTION

This connecting terminal is compatible with most TYPE-C cables on the market. included cable is recommended for recharging the battery.



TYPE-C cord

CHARGING YOUR MACHINE



1

Plug the TYPE-C cord into the battery connector.



Best connection



Improper connection
(not plugged in tightly)

HOW TO CHARGE YOUR MACHINE

Plug the provided TYPE-C cable into the connector on the back of the battery. Make sure the cable is properly seated and fully inserted into the battery. The battery will not operate while charging. The TYPE-C connection is only for charging the battery.

ADJUSTING NEEDLE DEPTH

ADJUSTING
NEEDLE
DEPTH

To adjust needle depth, hold the machine body and battery while turning the Grip. **A counter clockwise turn decreases depth, while a clockwise turn increases depth (also known as needle hang).** Each time you turn the grip you can feel the feedback of the ratcheting mechanism. Each “click” displaces your needle 0.2mm and allows you to set your needle precisely without involuntarily turning.

Increases needle depth



Turning the grip as shown increases needle depth.

Decreases needle depth



Turning the grip as shown decreases needle depth.

ADDITIONAL INFORMATION

VOLTAGE PARAMETERS

While voltage is a parameter that will vary from artist to artist, this machine has been tested to operate at a minimum voltage of 4 Volts and a maximum voltage of 12 Volts. Depending on the type of needle configuration or brand you use, feel free to adjust the voltage to obtain the desired performance.

ACCEPTED NEEDLES

Use only cartridge needles with an internal membrane. This will avoid accidental contamination inside your machine. Fluids such as ink, water or oil will void warranty of the device and may require replacement of internal parts.

MAINTENANCE

- PROTECTOR U8 is sold pre-lubricated from the factory and does not need internal lubrication.
- Prevent any type of external elements from entering inside the machine as they will disrupt the motion of the component and contaminate lubrication.
- The grip of the machine is autoclavable. Use only steam autoclaves at temperatures no higher than 270° Fahrenheit or 132.222° Celsius. Add a hint of ointment or PTFE grease around internal opening of grip or on stabilizing friction O-rings for optimal functionality after autoclaving. Refer to page 5 for additional information.
- Machine Body and Battery can be sanitized from the outside with cold sterilization products.
- Never spray the surface directly to prevent fluids from entering the machine. Always use pads or disposable paper towels to apply sterilization products.
- **DO NOT DISASSEMBLE MACHINE.**

WARRANTY

- One year warranty from the date of purchase.
- Motor warranty is void if motor shows signs of being dropped, of internal fluids entering the " motor, and/or IF motor shows signs of being tampered in any way.

"

ADDITIONAL INFORMATION

HANDY TIPS

The following tips will help you get the most out of your Protector-U8 and avoid potential issues:

- Always secure your machine. Dropping the machine can cause damage to the magnets, bearings and brushes of the motor.
- Use only cartridges with membranes to avoid contamination.
- Rinse your needle frequently to avoid pigment drying up and slowing down your cartridges. When rinsing your needle, ensure to dip only the tip of the cartridge to avoid back flow of fluids.
- Inspect your needles prior to use.
- Avoid scratching the surface of the embodiments.
- Use only FDA-approved cold sterilization solutions for disinfection.
- Do not lubricate machine unless instructed otherwise.
- Store your machine in a secure place.

TROUBLESHOOTING

1.- Machine manufacturer

Hunan Biomaser Technology Co.,LTD
Room101,Qingshan Village, Qingshanpu Town, Changsha, Hunan, China

2.- Servicing your machine

Problem as follows are not covered in warranty:

- Damages due to wrong installation or operation.
- Incorrect personal maintenance, change or modification of the machine.
- Damages due to water, accident or natural disaster.
- Superficial damages which do not interfere with the normal operation of the machine.

3.- Warning

Disconnect machine from any power before making any adjustments.

If you have any questions about the machine please contact the dealer in time.

For additional tips and tutorials, please visit Thunderlord Power's  @Thunderlord Power.