BIOMASER

PLENILUNE UI PRO

Wireless Machine Pen

USER MANUAL



INDEX

Safety Notice	3
Machine Overview	4
The Grip	5
The Body	6
Detaching Battery Pack	7
Control Menus	8
TYPE-C Connection	9
Connecting your Machine	10
Adjusting Needle Depth	11
Adjusting Stroke	12
Additional Information	13
Troubleshooting	14

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	
Operating Voltage:	3-12V
Current:	0.5A
Needle protrusion:	0.0 - 4.0 mm
Stroke:	2.0 - 3.5mm
Connection:	TYPE-C port with 5V charger
Motor model:	Coreless motor (Dimension: 17*22)
Speed:	11500RPM
Operating Mode:	Regular, Intermittent, Gradual, Dot
Ambient Temperature:	+10 to +35 °C
Relative Humidity:	30 to 75%
Dimensions (Ø X L):	22 x 130mm
Pen Weight:	Approx. 102g
Battery:	1000mAh
Charging Time:	2 hours
Working Time:	4-6 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 BIOMASER.

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

PLENILUNE U1 PRO

Unleash your Power

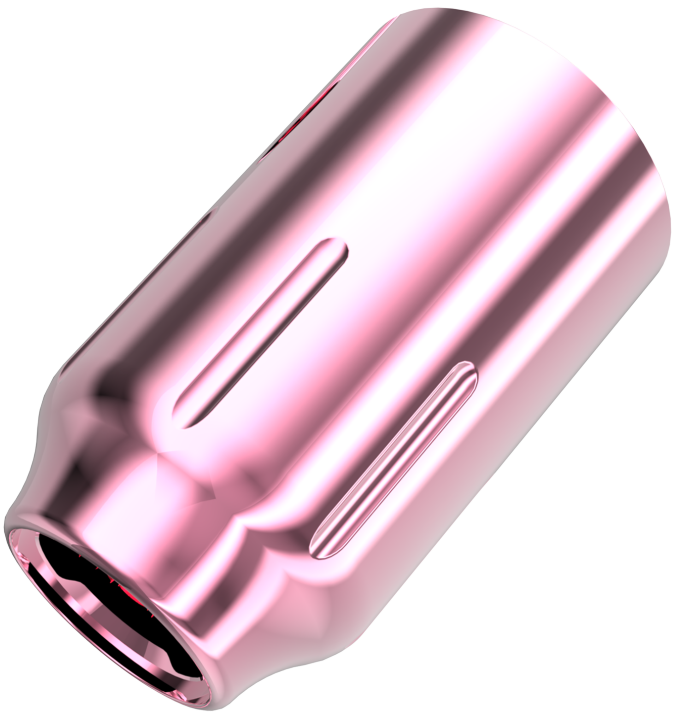


Wireless pen-style machine featuring a detachable battery, and a whole new level of freedom.

THE GRIP



PLENILUNE-U1 PRO Grip



Autoclavable Ergonomic Grip Design



Compatible with most tattoo cartridges on the market

THE GRIP

The PLENILUNE grip allows artists ratcheting control over needle depth. The standard Grip has a diameter of 20mm. 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



PLENILUNE-U1 PRO Body



THE BODY

The body is the core of the machine. Constructed from a solid rod of aircraft- grade aluminum, Tattoo master structure, extreme stability, powerful output. Adjustable stroke. this module should be sanitized by wiping it with cold sterilization solutions only.

Caution: Avoid getting fluids into the housing

DETACHING THE BATTERY



PLENILUNE-U1PRO Battery

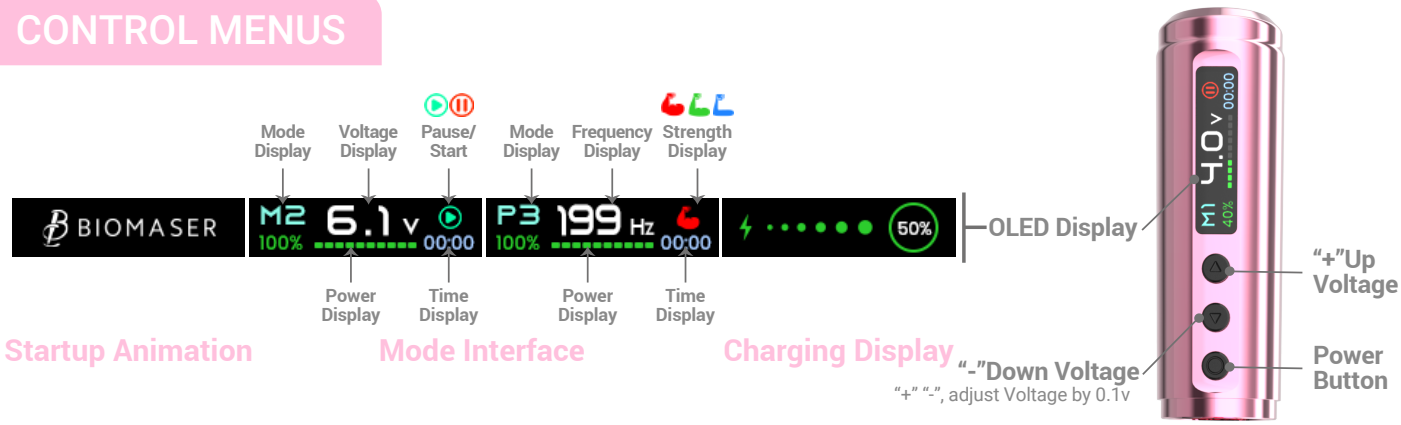


DETACHING THE BATTERY

To detach your battery, ensure you have a firm grip on the Body and Grip. Turn the 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 suppy mode RCA Connector.

CONTROL MENUS



Battery Status: Each bar represents **10%** of the battery level.
When the battery level **falls below 5%**, the last bar will flash.

Charging: When the device is powered on and connected to a Type-C port for charging, the highest lit battery bar will flash, and the battery percentage will update in real-time. Once fully charged, the display will show 100%, and all battery bars will remain solid.



When the device is powered off and connected to a Type-C port for charging, a circular running light will indicate charging, and the battery percentage will update in real-time inside the circle.

ADischarge Test After Full Charge: At 9V, the device can operate for 1.6 hours.
At 5V, the device can operate for 3 hours.

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 3 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: Long press for 2 seconds startup.

STOP&START: Short press the power button to stop/start

INTERFACE CONVERSION: Consistant press power button twice under the pause situation to change the interface (M1, M2, M3, P)

MODE INTERFACE:



M1-Regular Mode - the needle will keep moving



M2-Intermittent Mode - the needle will go and stop regularly, which allows starters to clearly know the effect and adjust in time.



M3-Gradual Mode - tthe line color will gradually change from dark to light, which helps starters finish the gradual color of pattern better.



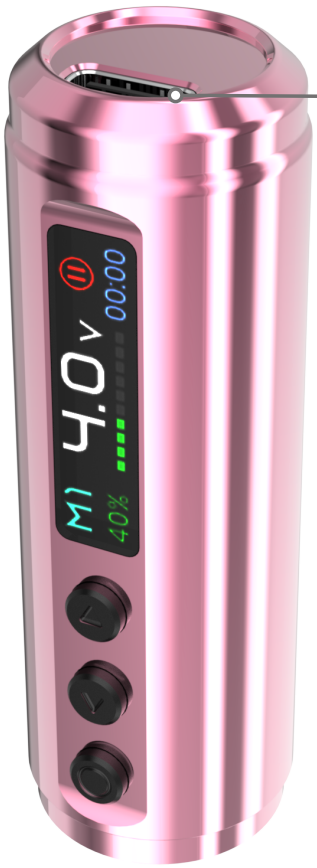
P-Hitting Mode - the needle swiftly prick, whose speed and force are adjustable,which make it easy for starters to do hair stroke and misty eyebrow.

AT P-HITTING MODE: When output is paused， Press "+" and "-" to switch between intensity, strong mode, stable mode, and soft mode.

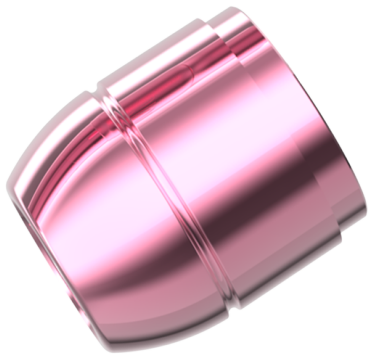
TYPE-C CONNECTION



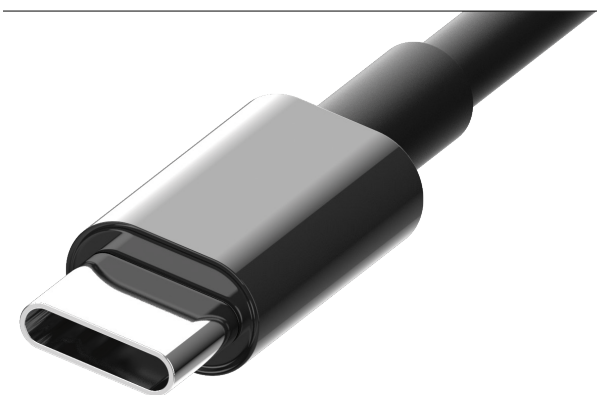
PLENILUNE-U1PRO Battery



TYPE-C Connector
5V charger



With RCA Connector
(sold separately)



TYPE-C cord

TYPE-C CONNECTION

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

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.

ADJUSTING STROKE

ADJUSTING STROKE

6 strokes to choose. In order to adjust the stroke, we divided the central ring district into two parts: the upper ring and the lower ring. When we increase the stroke, the upper ring twists to the lift and the lower ring twists to the ringt. On the contrary, the stroke decreases. It is easy to find and choose the stroke you prefer.



2.0mm|2.2mm

Suitable for gentle shading, careful tattoo working on sensitive body parts.

2.5mm|2.8mm

Provide the perfect balance between lining and shading and is the all-rounder.

3.1mm|3.5mm

Great balance between lining and color packing.

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 3 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

- PLENILUNE-U1 PRO 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 Plenilune-U1Pro 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 Biomaser's @biomaserofficial