



Ultrasonic Cutter — User Manual

Model: USS-FX000644 Manual No. 9134

Read this manual carefully and follow all operating standards. Be sure to read the Safety Precautions before use.

I. Safety Precautions

MANDATORY COMPLIANCE — the following actions are PROHIBITED:

Prohibited Action	Potential Risk
Spraying water on or immersing the cutter in water	Circuit damage, electric shock, short circuit, or fire
Cutting flammable materials such as oil paper	Fire, burns, or physical injury
Touching or facing the vibrating blade at close range	Cuts or eye injuries (severe cases may cause blindness)
Cutting live wires, data cables, or metal objects	Risk of electric shock
Use by children unsupervised, or contact by infants	Accidents or injuries
Subjecting the cutter to strong impacts or vibration	Internal circuit failure
Unauthorized disassembly, repair, or modification	Equipment failure, electric shock, or fire
Inserting conductive objects into holes or gaps	Failure, fire, shock, or short circuit
Use in high-temp, humid, dusty, or corrosive environments	Failure, fire, shock, or short circuit
Carrying without removing blade / fitting safety & dust caps	Personal injury
Using near high-precision electronics or pacemakers	Interference with other devices
Letting the blade contact non-cutting items	Personal injury or property damage
Using loose or non-specified blade models	Safety accidents
Randomly discarding old blades	Environmental and safety hazards
Handling the blade without powering off and wearing gloves	Burns or cuts
Touching a working / recently-stopped blade, block, screws, or transducer	Burns
Using blades with holes, cracks, or damage	Personal injury
Cutting high-hardness materials (metal, glass, marble)	Equipment damage or personal injury

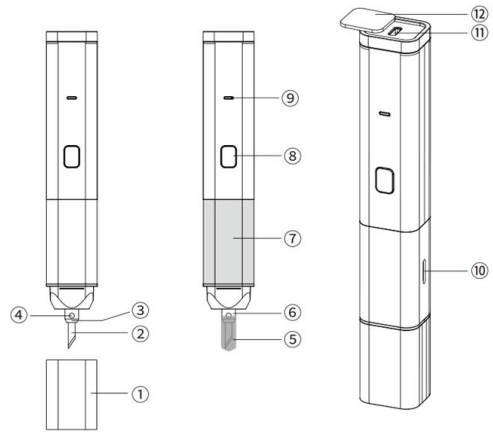
II. Product Specifications

Ultrasonic Frequency	40 kHz
Dimensions	29 × 25 × 192 mm
Max Output Power	30 W
Rated Voltage	DC 5V / 12V / 15V
Fast-Charge Protocol	PD, QC (5V, 12V Normal, 15V High)
Operating Environment	41–95 °F (5–35 °C), 20–70% RH non-condensing

Power: Type-C fast charge. Use a QC/PD adapter or power bank that outputs 5V/12V/15V at ≥30W; otherwise it may stop due to power overload.

Product Structure

①	Protective Cap
②	Blade
③	Blade Fixation Block
④	Fastening Screw
⑤	Blade Safety Cap
⑥	Ultrasonic Transducer
⑦	Silicone Sleeve
⑧	Button
⑨	Indicator Light
⑩	Dust Mesh
⑪	Power Interface
⑫	Dust-proof Silicone Plug

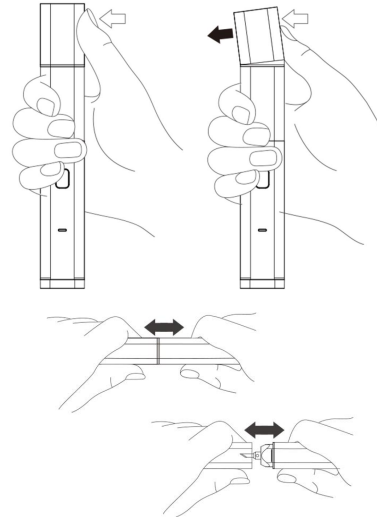


III. Operation Method

Opening the Protective Cap

- Method 1: Hold the body and push the dust cover in the arrow direction to unlock and open.
- Method 2: Pinch both sides of the cover and pry / slide it open in the arrow direction.

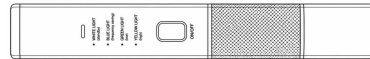
Keep the dust cover. Reinstall it whenever the tool is not in use — it protects the blade area and keeps dust out of the dust mesh.



Power Supply & Protocol Detection

Connect the Type-C cable and power on; the device auto-detects the protocol.

Protocol Status	Indicator Light
Supports 5V (PD/QC)	Flashing Blue → Green
Only supports 12V (PD/QC)	Flashing Green → White (standby)
Only supports 15V (PD/QC)	Flashing Yellow → White (standby)
Protocol not supported	Solid Red (cannot operate)



Startup & Gear Operation

Prerequisite: white standby light shown and blade safety cap removed.

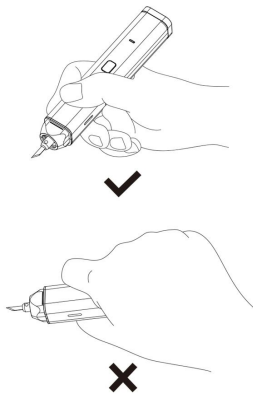
- 5V only:** long-press 1s → Blue (frequency sweep), wait 1–2s to finish.
- 12V only:** long-press 1s → Normal (Green); double-click to stop.
- 15V only:** long-press 1s → Normal (Green); single-click → High (Yellow); click again to stop.

Auto-Stop

- Normal (Green) and High (Yellow) modes auto-stop after ~5 min of continuous work.
- Restart: long-press (Normal); long-press then single-click (High).

IV. Usage Precautions

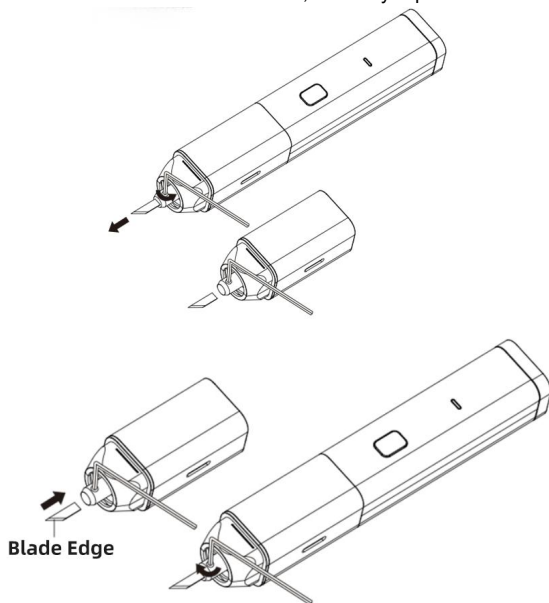
- Wear safety goggles and gloves when operating or changing blades. If harmful gases are produced, wear a mask and ensure ventilation.
- The ultrasonic blade is sharper than ordinary tools — never touch the cutting edge.
- Grip the body correctly. Pinching the blade end with one hand during operation is strictly prohibited.**



V. Blade Replacement

Replace when the edge shows gaps or deformation, cutting becomes difficult, or effectiveness drops.

- **Power off & cool:** unplug; wait for the light off and the blade/transducer to cool.
- **Remove old blade:** loosen the fastening screw with the hex wrench and remove it (mind your fingers).
- **Install new blade:** seat it at the bottom of the fixation-block slot, edge facing the correct way, then tighten the screw.
- **Inspect:** confirm the blade is not loose, or it may slip out and cause injury.



VI. Troubleshooting

Symptom	Cause → Solution
Red indicator light	Adapter lacks PD/QC 5/12/15V support → use a compliant power supply.
Sudden stop in use	Power <30W or auto-stop reached → use a ≥30W supply, or restart.
No blade vibration	Blade loose → retighten; dirt on blade/block → clean & reinstall; deformed/damaged → replace.
Overheating	Prolonged use → pause & cool; too much force → press lightly; blade loose → secure; dirt → clean; deformed → replace.
Abnormal noise / can't cut	Blade loose or dirty → tighten/clean; deformed → replace; non-original blade → use specified blade; force too high → reduce.
Other faults	Damaged screw/wrench → replace part; screw stuck → send for repair, do not force; screw loosens after blade change → cool & retighten.

Important: Failure to securely fix the blade/fixation block is the main cause of malfunctions. If abnormal heating occurs, stop immediately and inspect.

VII. Packing List

Item	Qty
Ultrasonic Cutter	1
Dual Type-C Power Cable	1
Power Adapter	1
Spare Blades	50
Blade Fixation Block	2
Fastening Screw	5
Hex Wrench	1
User Manual	1