

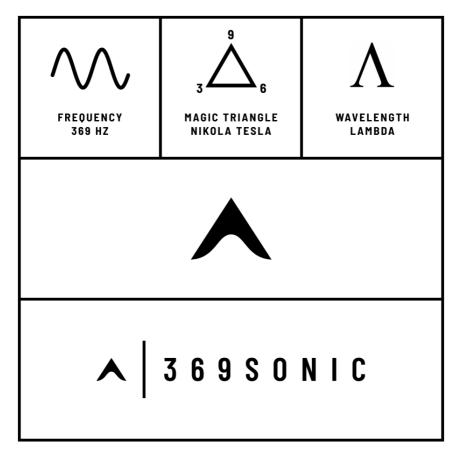
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Ultrasonic Cutter

UKK45000F30W3

User Manual





THE POWER OF SOUND

Dear Customer,

thank you for choosing our product! Please read this manual carefully before first use and keep it for future reference. If you pass the product on to someone else, please also pass on this manual.

Limitation of Liability

The manufacturer and importer disclaim all liability for any circumstance in which the instructions in this manual were not followed, nor shall they be held liable for damage caused by improper use of the product and its accessories (e.g. material destruction, cutting injuries, etc.). Any of use the product not expressly permitted by this manual is prohibited.

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KEY SAFETY INSTRUCTIONS

This product may not be used by children or the mentally impaired. This product is not a toy; ensure that children do not play with it. Keep out of reach of children.

Cleaning and maintenance may not be performed by children or the mentally impaired.

This product is supplied without a power adapter. The contents of this manual are based on the assumption the recommended adapter type will be used.

If the adapter, power cord or charging base are damaged, the adapter may not be used further until it is replaced or repaired with original parts. Repair or replacement may only be performed by the manufacturer or an authorised representative. To avoid electrocution, never use the product with a damaged adapter, power cord or charging base.

An ultrasonic cutter emits sound waves outside the human hearing range. Certain species of common house pets can hear these frequencies and may be adversely affected. Do not use the product around animals.



WARNING

THE CUTTER BLADE IS VERY SHARP. NEVER TOUCH THE BLADE WHILE THE CUTTER IS IN OPERATION. FAILURE TO FOLLOW THE INSTRUCTIONS IN THIS MANUAL MAY RESULT IN DEATH, SEVERE INJURY, OR DAMAGE TO THE PRODUCT OR OTHER PROPERTY. ALWAYS FOLLOW THIS MANUAL WHEN HANDLING AND USING THE PRODUCT.

Electrical Safety

· Only use the product with the recommended adapter and charging base. Do not use a different type of adapter or charging base than recommended. Using non-recommended parts carries a risk of electrocution.

- · Before plugging in the adapter, make sure the voltage of your power outlet matches the nominal voltage on the adapter's rating plate. If in doubt, contact your power company or a certified electrician.
- · Only plug the adapter plug into a properly grounded power outlet. Do not use extension cords or multi-plug sockets.
- · Before using the product, make sure it is charged. Follow the charging instructions in this manual.
- Do not use the product, adapter, power cord or charging station near heat sources (e.g. wood stove, electric or gas cooking top, radiator, etc.). Do not expose them to direct sunlight, extreme temperatures or open flames (e.g. candles). Using non-recommended parts carries a risk of electrocution.
- Do not expose the product, adapter, power cord or charging station to dripping or splashing water. None of their parts are designed as waterproof. Do not use them in high-humidity or dusty environments, or near sinks, bathtubs or other vessels containing water. No part of the product is dishwasher safe. Electrocution hazard. The cutter blade and handle may be washed according to the instructions in this manual.
- · Do not immerse the product, adapter or charging station in water or any other liquid. Electrocution hazard.
- Do not touch the product, adapter or accessories with wet hands, especially when plugging into or unplugging from the mains.
- Route the adapter cable away from hot surfaces and so as to keep it from being stepped on or tripped over. Make sure the power cord does not hang off the edge of a table or worktop, become tangled or sharply bent, or touch sharp objects.
- · Always turn off the product when leaving it unattended, when not using it, and before moving, cleaning or storage.
- Unplug the adapter from the mains socket by pulling on the adapter body, not on the power cord. Pulling on the cord risks damaging the adapter or the socket.
- · Do not insert objects into apertures in the product, adapter or charging station. Electrocution hazard.
- · Avoid drops and impacts on the product, the adapter and the charging station.

· Do not modify or convert the product to a different level of performance or manner of use.

Safe Placement

- Always place the product on a flat and stable surface. Otherwise, it could fall.
- · Placed the product out of reach of children and the mentally impaired.
- · Always keep the blade guard on when not using the product.
- When charging the product, place it so that the power socket remains freely accessible, so that the product can be unplugged easily in an emergency.

Safe Use

- This product is designed for cutting plastics, ABS, PLA, resin, carbon fibre, acrylic, expanded PVC foam, MDF, plywood, PVC, leather, rubber, PCB, cotton, and silicone.
- · Wear appropriate clothing when working. Wear eye, hand and finger protection.
- Depending on the material, harmful gases may be produced during cutting. Wear a protective mask and ensure adequate ventilation.
- · Always secure the material firmly to prevent displacement during work, and also secure the workspace.
- \cdot Do not use the product to cut glass, iron or similarly hard materials.
- · Only use the product for its design purpose. Do not use it for commercial, research or industrial purposes.
- Do not use the product in the vicinity of electrical charges or electrical or vibrating equipment. The product's ultrasound emission can cause serious malfunctions in such equipment.
- The cutter blade is very sharp. Take extra care when handling the cutter. An ultrasonic blade cuts better than a comparable conventional blade. Improper handling may cause death or severe injury.
- · Only use accessories supplied with the product or listed as compatible by the manufacturer. Using unapproved accessories may result in

- electrocution, injury, or damage to the product or other property.
- Remove the blade guard before switching on the product. Do not switch on the product with the blade guard on. Doing so may damage the product.
- · Hold the product firmly by the handle.
- Do not apply excessive pressure when cutting to avoid damaging the product. It should not be necessary to exert much force, as the blade is very sharp and the ultrasonic technology delivers a straight and clean cut.
- · Keep your work area clean.
- · Allow the product to come to a complete stop before removing the cut materials.
- · Do not carry the product around while it is on.
- Do not leave the product unattended when switched on, or when switched off but left where children or the mentally impaired may reach it.
- · Keep the transducer clean.
- · If the blade is damaged or dull, replace it with a new one and dispose of the original.
- · Never touch the blade while the product is in operation. Doing so risks severe injury.
- Do not bend the blade! Irreversible damage to the product and / or severe injury may result.

WARNING: HOT SURFACE.

Do not touch the blade shortly after use. It gets hot enough in use to cause burns. The ultrasonic vibration causes the transducer to heat up, and this heat then spreads to the blade. The transducer and the hilt-side end of the blade can reach up to 80 °C in operation.

- · When in use, do not look directly at the blade. Do not point the blade at anyone.
- When removing the blade cover, hold the cover with your whole hand at the top of the blade to prevent your fingers or part of your hand from slipping onto the blade.

Safe Maintenance and Storage

- Turn the product off when not in use, when carrying, charging, and before cleaning or storing it.
- · Clean the product after each use.
- · When cleaning, follow the instructions in the "Maintenance" section below.
- Only the maintenance tasks described in this manual may be performed by the user. Have all other maintenance performed at an authorised service centre only.
- This product does not contain user-repairable parts. Always have the product repaired and serviced at an authorised service centre. Do not repair the product yourself.
- Do not use the product if it appears to be malfunctioning, has fallen from a height or appears damaged. In that event, contact an authorised service centre.
- · Store the product and its accessories in a safe, dry and well-ventilated place, out of the reach of children and the mentally impaired.
- We recommend charging the product regularly (at least once every three months) when not using it for longer periods. This will extend the life of the built-in battery.

Rechargeable Battery Safety Instructions

- The battery can only be charged when connected to the cutter handle or using the supplied charging attachment.
- The battery is built into the product frame and may only be removed by our technicians or other qualified personnel.
- · Do not throw the product into a fire or use it near open flames, such as burning candles.
- · Do not use or store the product where flammables, volatiles or explosives are present.
- During charging, the product may become hot, which is normal.
 However, if the temperature rises unusually high, stop using the device immediately.

- · If the cutter starts whistling or making other unusual noises, turn it off immediately and stop using it.
- · When removing the cutter from the charger, hold it by the handle, not the cover. If the cover falls off, your hand could accidentally slip onto the blade.
- · Do not connect or disconnect the handle from the battery while the battery is in the charging base.
- · To avoid battery explosion, do not expose the product to fire or attempt to dispose of it by burning.

Battery Disposal

The rechargeable battery is built into the product. Before environmentally friendly disposal or delivery to a collection point, the battery must be removed from the product. Only qualified personnel, such as authorised service centre technicians, may remove the battery from the product. The battery contains environmentally harmful substances and should not be



disposed of in general waste. Take the battery to a collection point for environmentally friendly disposal.

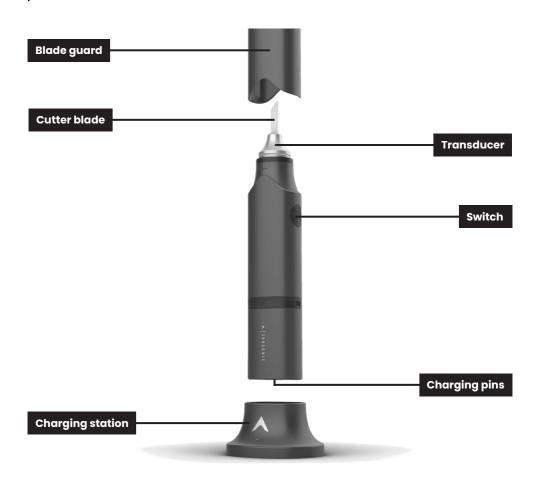


This symbol indicates the product is designed for indoor use only. Do not use it outdoors.



This symbol indicates the product contains a rechargeable lithium-ion battery. Recycling must be carried out in accordance with applicable regulations.

> PRODUCT DESCRIPTION



PACKAGE CONTENTS

- 1 Ultrasonic cutter, including replaceable blades and blade guard
- 1 Charging station
- 1 Storage box
- 1 Watertight sleeve
- 1 Allen key, 1 Wrench
- 1 pair Earplugs



INTENDED USE AND FEATURES

This 369Sonic ultrasonic cutter is equipped with innovative ultrasonic technology that makes it one of the sharpest and most efficient material cutters on the market.

This product is designed for cutting plastics, ABS, PLA, resin, carbon fibre, acrylic, expanded PVC foam, MDF, plywood, PVC, leather, rubber, PCB, cotton, and silicone.

The ultrasonic vibrations improve the cutter's performance.

Depending on the material, harmful gases may be produced during cutting. Wear a protective mask and ensure adequate ventilation. Always secure the material firmly to prevent displacement during work, and also secure the workspace.

Do not use the product to cut glass, iron or similarly hard materials. The cutter is equipped with a spatial sensor (measures angles and tilt) and a north indicator. However, sensor accuracy may be affected by interference.

The device has a touch lock that detects contact with the user's hand and automatically switches off if the cutter is no longer held. However, due to possible interference, 100% reliability of this mechanism cannot be guaranteed. Therefore, do not rely on it as the primary safety feature - it is only a supplementary measure.

▶ BEFORE FIRST USE

- Remove the cutter and all accessories from the packaging. Keep packaging material out of reach of children and pets. We recommend keeping the original packaging for at least the duration of the warranty. If necessary, dispose of the packaging material in an environmentally friendly manner.
- · Check that the cutter and all accessories show no signs of damage.
- · Wipe the cutter, charging station and AC adapter with a dry cloth.

CHARGING

· The rechargeable battery is integrated into the replaceable part of the

cutter handle. This entire section can be replaced when a new battery is required.

- · The rechargeable battery is built into the cutter handle.
- · We recommend fully charging the cutter before first use.
- · Plug the adapter cable into the port on the back of the charging station. Plug power cord into a properly grounded mains outlet.
- · Insert the end of the cutter handle into the charging base.
- · The indicator light on the charging station will turn red.
- When the indicator light turns green, the cutter is fully charged. Unplug the power cord from the mains and the adapter cable from the back of the charging station.
- · If four short beeps sound during cutting, the battery is low and needs to be recharged.
- If the red light on the charging station flashes, the station has overheated and charging has paused. When the station cools below 45 °C, charging will automatically resume.

WARNING

Always make sure the blade guard is on.

USE



WARNING

THE CUTTER BLADE IS VERY SHARP. NEVER TOUCH THE BLADE WHILE THE CUTTER IS IN OPERATION.

Take extra care when handling the cutter. An ultrasonic blade cuts better than a comparable conventional blade. Doing so risks severe injury.

Always switch off the cutter and put on the blade guard when done cutting or when not using the cutter, moving it, leaving it unattended, etc.

Unlocking the Safety

The cutter is equipped with a safety that must be unlocked before use. This safety feature prevents unintentional activation that could otherwise cause severe injury or other hazardous situations.



WARNING

Do not attempt to disable or otherwise modify the safety. You could irreversibly damage the cutter or create a hazardous situation.

- 7 Remove the cutter from the charging station.
- 2 Press the switch three times within a span of 3 seconds.
- 3 A long beep will sound to indicate the cutter has been unlocked.

Note: The cutter will not switch on while locked.

Cutting

Place the material on the worktop. Make sure the material rests secure on the worktop and will not slide.

The cutter has two cutting modes:

- Press the switch briefly to activate the 18-second single-cut mode. A short beep will sound. After 18 seconds of operation, the cutter will automatically switch off and two short beeps will sound. To stop the cutter earlier, press the switch again. When this mode is activated, the white light on the handle will glow steadily to indicate that cutting mode is active.
- 2 Press and hold the switch to activate continuous operation mode. A short beep will sound. The cutter will remain on for as long as you hold the switch. When you release the switch, the cutter will switch off immediately. There will be two short beeps. When this mode is activated, the white light on the handle will glow steadily to indicate that cutting mode is active.

Select the cutting mode best suited to your intended use.



WARNING

If the white light is on, the ultrasonic cutting mode is active. Avoid any contact with the blade.

Locking the Safety

When not using the cutter, moving it or leaving it unattended, lock it to prevent accidental activation.

- 1 Press the switch three times within a span of 3 seconds.
- 2 Three short beeps sound to indicate the safety is locked.

The safety also automatically locks after 6 minutes of inactivity. Three short beeps sound when it locks.

The safety can also be enabled in the mobile app by tapping "safety on".

Resetting the Cutter

Use the Reset feature if the cutter is not responding to commands.

- 7 Remove the battery and reinsert it.
- 2 This disconnects and reconnects power to the cutter, resetting it. An automatic reset can also occur during use, e.g. when the cutter overloads. In this case, there will be three short beeps followed by one long beep. This is a reset called by the internal software as a safety feature.

> SWITCH FUNCTION, INDICATOR LIGHTS AND CHIMES

Switch function	
1 short press	Switches cutter on in 18-second single slice mode.
Continuous press	Switches cutter on in continuous operation mode.
3 short presses	Locks / unlocks cutter

Chimes	
1 short beep	Start of cutting
2 short beeps	End of cutting
10 short beeps	Power-on attempt detected while charging (by design, cutter will not power on while charging)
3 short beeps	Cutter locked
1 long beep	Cutter unlocked

4 short beeps	Low battery warning
1 beep of 1.5 seconds	Overcurrent warning
3 beeps	Overheat warning
3 short beeps	Safety on warning
Continuous tone	Thermistor failure (requires professional repair)

Indicator lights	
White LED light on the	If the white LED on the handle is lit,
handle	ultrasonic cutting is active.

ATTENTION

If the cutter switches itself off during cutting and three beeps sound, the temperature sensor has detected internal temperature exceeding 60 °C. Stop using the cutter and let it cool down until one long beep sounds, signalling internal temperature has dropped to $45\,^{\circ}\mathrm{C}$

If the cutter switches itself off during cutting and beeps for 1.5 seconds, this indicates overcurrent in the cutter's internal wiring. If this problem recurs, try tuning a new resonant frequency with a lower current load or reduce the voltage in standard or power mode via our app. At the same time, make sure that the blade is well tightened and that all surfaces are properly bonded for maximum grip. If neither of these steps solves the problem and the overcurrent protection keeps tripping, we recommend having the cutter serviced at an authorized service centre.

>

MAINTENANCE

Clean the product after each use. Keep the transducer, blade and their contact surfaces clean. If necessary, clean with alcohol and allow to dry completely. Accumulations of dirt or material between the blade and the transducer or roller could cause loss of functionality.



WARNING

THE CUTTER BLADE IS VERY SHARP. NEVER TOUCH THE BLADE WHILE THE CUTTER IS IN OPERATION.

Take extra care when handling the cutter. An ultrasonic blade cuts better than a comparable conventional blade. Doing so risks severe injury.

WARNING

Do not immerse the cutter, adapter or charging station in water or any other liquid. No part of the cutter or accessories is dishwasher safe.

WARNING

Do not clean with chemicals, abrasives, solvents, gasoline cleaner, etc. Do not use wire cloths, brushes or other tools that could damage the finish.

Alcohol can be used to clean the blade and transducer. All other parts can only be cleaned with a cloth dipped in water.

Washing the Blade

The blade and the protruding part of the transducer can be gently wiped with a damp cloth. When cleaning, the blade must face downwards to prevent water or moisture from entering the cutter body. If necessary, the blade can also be cleaned with alcohol. After application, allow the alcohol to evaporate completely.

Handle and Blade Guard

The handle and blade guard can be wiped with a damp cloth in the same way. Take extra care to prevent water and moisture from getting inside the cutter. After cleaning, wipe surfaces thoroughly with a dry cloth.

Adapter and Charging Station

Wipe the charging station and the AC adapter with a dry cloth only.

Sharpening the Blade

Blades are not designed for repeated sharpening. They are designed to be replaced when worn. If necessary, replace the worn blade with a new one.

Replacing the Blade

If you decide to replace the blade due to damage, major wear or to equip a different blade type, proceed as follows:

- · Activate the safety to keep the cutter from accidentally switching on during the replacement process.
- · Place the cutter on a flat, non-slip surface.
- The ultrasonic transducer has a screw at the very end that needs to be loosened in order to remove the original blade from the transducer.
 When loosening, be sure to hold the ultrasonic transducer with the wrench at all times to prevent it from spinning, which might damage it.
- · After removing the screws, you can remove the original blade.
- · Insert the new blade in place of the original.
- · Insert the screw into the hole in the transducer and tighten.

Tune for the resonant frequency of the new blade according to the instructions in this manual. Please also follow the instructions in our mobile app to tune the blade correctly.

Short-Term Storage

When not using the cutter, switch it off and set the safety. Clean as described above, then put on the blade guard. Insert the cutter into the unplugged charging base and store in a safe place out of reach of children, the mentally impaired, and pets.

Long-Term Storage

When not using the cutter for longer periods, put it in the supplied storage box, then store the box in a dry and well-ventilated place out of reach of children, the mentally impaired, and pets.

We recommend charging the product regularly (at least once every three months) when not using it for longer periods. This will extend the life of the built-in battery.



TECHNICAL SPECIFICATION

Ultrasonic Cutter	
Frequency range	20-70 kHz
Length (excl. guard and charging station)	190 mm
Weight (excl. guard and charging station)	330 g
Maximum power	51 W (maximum power may vary depending on voltage setting in the app)
Operating temperature range	5-35 °C
Battery	Li-lon 11.1 V, 1200 mAh
Charge time	~1.5 hours

1 Charging station		
Input	19 V, 1.5 A	
Input connector	DC connector 5.5 mm × 2.1 mm	

Adapter not included! Recommended adapter specifications:

Recommended power adapter		
Input	100-240 V~, 50-60 Hz, 1 A	
Output	19 V / 1.5 A	

avive s.r.o.

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