

Mini Ultra Sonic Cleaner

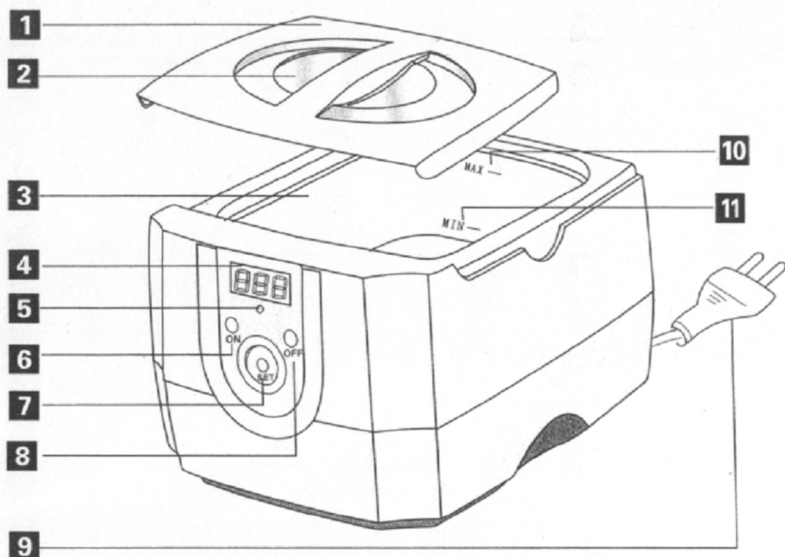
100005

Instruction Manual

Removes grease, dust or other contaminants from surfaces and cavities of objects like glasses, small parts, metals, glassware, coins, cuvettes, stainless, nozzles, electric shaver blades, jewelry, printer-heads, dentures and more. Generates thousands of tiny cleansing bubbles which vibrate at a very high electrical frequency. When the vibration speed rises above the ultrasonic frequency level, bubbles explode, generating intense cleaning power that is gentler than most chemical / abrasive cleansers. This unit is not intended for commercial, non-stop use.



PRODUCT DRAWING & INDICATION



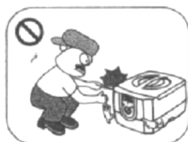
STAINLESS STEEL TANK

- 1** LID **2** VIEW WINDOW **3** **4** DIGITAL DISPLAY **5** INDICATION LIGHT
6 "ON" BUTTON **7** "SET" BUTTON **8** "OFF" BUTTON **9** PLUG AND CORD
10 "MAX" MARK **11** "MIN" MARK

NAME	ULTRASONIC CLEANER	POWER SUPPLY	AC 100-120V 60Hz
ITEM NUMBER	CD-4800	POWER	60 W
DIM.	230X180X160mm	TIMER SETTING	DIGITAL-CONTROLLING 5 WORKING CYCLES. <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;"> ← 180s → 280s → 380s → 480s → 90s → </div>
TANK SIZE	1400ml		
FREQUENCY	42KHz	WEIGHT	1.75 kg

IMPORTANT SAFETY INSTRUCTIONS

⊘ WARNING-To reduce the risk of burns, electrocution, fire or injury to persons



Do not disassemble the unit except for the authorized serviceman.



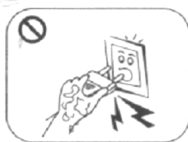
Do not fill the tank with abrasives or corrosive chemicals.



Unplug the unit before filling. Do not exceed the MAX mark.



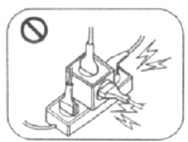
Do not immerse the unit in water to reduce the risk of electrocution.



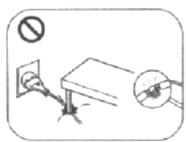
Do not touch the socket with wet hand to reduce the risk of electrocution.



Do not use this unit when sleeping or drowsy.



Use this unit properly as per its instruction manual. Do not use attachments not recommended by the manufacturer.



Never operate this unit if cord or plug is damaged. If it is not working properly, damaged or has been dropped into water, return the damaged unit to a service center for examination and repair.



Any unfirm inlaid item may become loose. Items that is easy to be discolored are not recommended for ultrasonic cleaning. For example: textiles, leather products, woodware, etc.

SAFETY INSTRUCTION: READ ALL INSTRUCTIONS BEFORE USING



DANGER- To reduce the risk of electrocution:



Unplug this unit immediately after using.



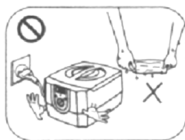
Keep the unit away from heat, and place it in a dry and level surface.



Keep the unit in a safe place to avoid falling into water or other liquid.



The unit should never be left unattended when plugged in.



Do not use while bathing.






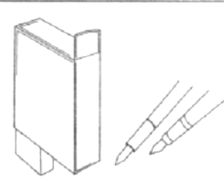
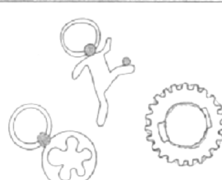

Do not immerse the unit into water or other liquid.



Do not reach for the unit that has fallen into water. Unplug immediately.



Do not put mobile phone or watch which is not waterproof into the tank for cleaning. Do not put any spectacles frame or art ware which is made from Shell or hawksbill into the tank for cleaning.

Jewellery	Glasses and Timepieces	Commodities
		
Necklaces, Rings, Earrings, Bracelets etc.	Glasses, Sun Glasses, Watch Chains, Waterproof watches etc.	Electric shaver heads, Razor blades, Dentures, Combs, Toothbrushes etc.
Stationery	Metal Articles	Metal Dishware
		
Pen-heads, Printer-heads, Seals etc.	Watch Parts, Ancient coins, Badges, Values, Machine nozzles etc.	Forks, Knives, Spoons, etc.

OPERATION INSTRUCTIONS



Open the lid, and fill stainless steel tank with water.

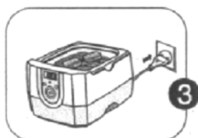
Running without water may damage the unit!



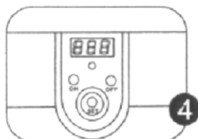
Place item into water.

The item should be immersed well into the water. However, the water do not exceed " MAX " mark or below " MIN " mark.

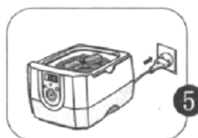
OPERATION INSTRUCTIONS



Plug in the unit.

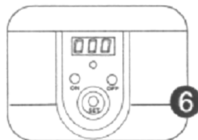


Press "SET" button to choose working cycle freely. When the unit is electrified, 180s is displayed automatically, it is the most common-used working cycle. Every time when press "SET" button, the 5 optional working cycles from 180S→280S→380S→480S→90S will be displayed on the screen.

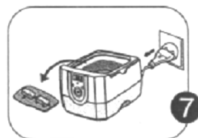


Press " ON " button to start cleaning and the red indication light is on.

During cleaning, you can hear the " ZIZI " voice, it means the unit is working.



When reach the time of " 00 " the unit will auto stop, the red light will turn off. If another cleaning is needed, just repeat the above steps. During cleaning, if you want to stop, just press " OFF " button. Press " NO " button again, the unit will implement the remainder program to continue the cleaning. Furthermore, you can press " SET " button to renew working cycle.



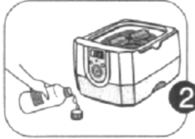
When cleaning is finished, unplug it and open the lid, then take out the item. At last, pour the water from stainless steel tank and wipe it up.

FOUR WAYS OF CLEANING



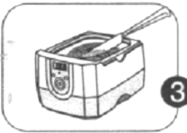
GENERAL CLEANING

Use only plain water for general cleaning. The water should merge the item to be cleaned, but not exceed " MAX " mark and below " MIN " mark.



ENHANCED CLEANING

When the item is smeary or extraordinary dirty, add about 5-10ml of detergent into water to enhance cleaning result.



CLEANING BY PARTS

For large items, partly cleaning as shown.

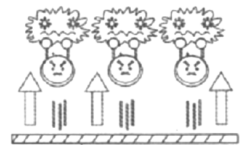
DIRT ELIMINATION PROCESS THROUGH ULTRASONIC TECHNOLOGY



Many tiny bubbles are generated under the action of ultrasonic .



Bubbles are imploded constantly under the action of ultrasonic to impact the surface of the item.



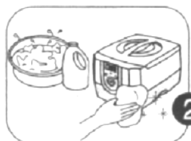
The impact splits up the dirt into many granules and separates them from the surface of the item, the granules then come into water.

USER MAINTENANCE



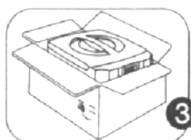
Unplug and empty the unit after using.

Do not keep water in the tank for a long time.



Wipe the tank and housing with dry towel.

Do not wash the unit with water to avoid electric shock.



Keep in cool and dry place.

Operating Procedures

Plug the unit into a grounded 100~120V outlet, preferably with a ground fault interrupt (GFI) to prevent fire, injury or electrocution.

Open the cover to wipe the stainless steel tank with a clean cloth.

Dropping objects into the tank can damage the circuitry, so gently place the object to be cleaned into the tank.

Note: If a sharp tool touches another metal object during the cleaning cycle, the ultrasonic action can dull the edge. Use plastic baskets so that such tools don't touch the metal.

Fill the tank with enough water to cover the item but not exceed the MAX line. The unit can be damaged if it is operated without sufficient water. If desired, a few drops of mild phosphate-free detergent may be added to the water. The use of disinfectants is not recommended as they may produce harmful vapors. If you use a dipping basket, the unit's stainless steel tub must also be filled with water.

Press the "ON" button to start the cleaning cycle. The unit will automatically shut off after 3 minutes. Never leave the unit unattended during operation. In some cases, pre-soaking or repeated cleaning cycles may be required. After extended operation, if the water becomes too hot (over 158°F / 70°C) replace with cool water before continuing.

To stop the unit during a cleaning cycle, press the "OFF" button.

When you are finished, unplug the unit and clean the exterior, buttons and electrical cord with a damp cloth.

PRECAUTIONS

The Mini Ultrasonic Cleaner is not a toy and it is not intended for use by children.

DO NOT disassemble the unit.

DO NOT use near a sink, tub or other water source where there is danger from electrocution.

DO NOT use if the electrical cord is damaged.

DO NOT clean with abrasive or harsh solvents.

DO NOT submerge the unit or allow water to seep into the circuitry.

DO NOT use if the unit becomes hot to the touch. Discontinue use immediately, unplug, and wait until the unit cools completely before resuming use.

DO NOT use on fragile stones such as turquoise, pearls, emeralds and opals, coated metals, or live creatures.

WARRANTY

Sper Scientific warrants this product against defects in materials and workmanship for a period of **one (1) year** from the date of purchase, and agrees to repair or replace any defective unit without charge. If your model has since been discontinued, an equivalent Sper Scientific product will be substituted if available. This warranty does not cover probes, batteries, battery leakage, or damage resulting from accident, tampering, misuse, or abuse of the product. Opening the meter to expose its electronics will break the waterproof seal and void the warranty. To obtain warranty service, ship the unit postage prepaid to:

SPER SCIENTIFIC LTD.

8281 E. Evans Rd., Suite #103
Scottsdale, AZ 85260
(480) 948-4448

The defective unit must be accompanied by a description of the problem and your return address. Register your product online at www.sperwarranty.com within 10 days of purchase.

Power Supply	AC 100~120V 50/60HZ
Frequency	60HZ
Output Power:	35W
Dimension:	5"H x 8"W x 4½"D (127 x 203 x 117 mm)
Tank Dimensions:	2½"H x 6½"W x 3½"D (64 x 165 x 89 mm)
Capacity:	1/2 qt (600 ml)
Net Weight:	2 lbs (1 kg)
Time:	3 Minutes
Cycles	42,000
Warranty:	1 year