

# ULTRASONIC CLEANER

4820

INSTRUCTION MANUAL

## Application

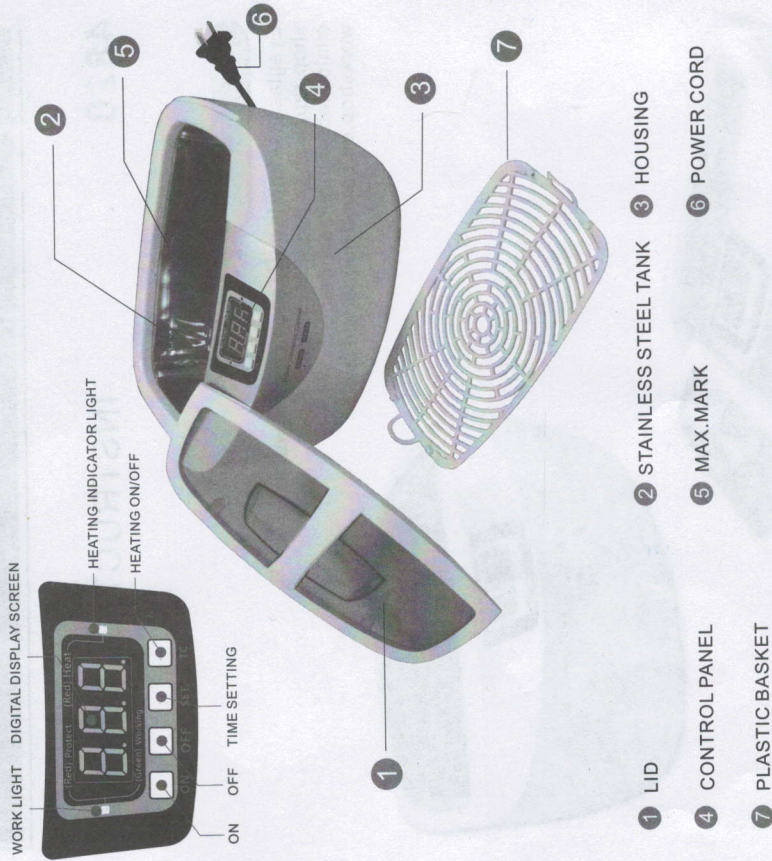
Eyeglasses shop, jewelry shop, clocks & watch shop, repair shop, hospital, dental clinics, laboratory, electronic workshop, office and household use.



- PLEASE READ THIS INTRODUCTION BEFORE USING
- KEEP THIS MANUAL FOR REFERENCE



## PRODUCT INTRODUCTION



### SPECIFICATIONS:

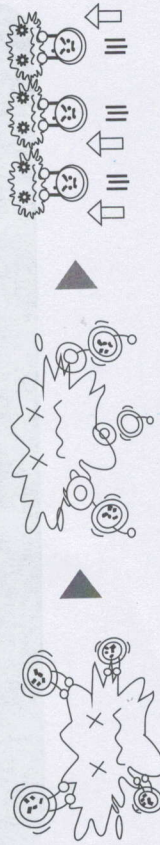
NAME	ULTRASONIC CLEANER	POWER SUPPLY
MODEL	4820	<input type="checkbox"/> AC100-120V 60Hz <input type="checkbox"/> AC200-240V 50Hz
OVERALL SIZE	290×223×185mm	POWER 70W
TANK SIZE	250×150×80mm	FREQUENCY 40KHz
VOLUME	2500ml	TIME SETTING 0-8min.
		G.W 2538±10g

## AVAILABLE FOR

Glasses and Watch	Jewellery	Daily used
Glasses, Sun glasses, Watch chains, Waterproof watches etc.	Necklaces, Rings, Earrings, Bracelets etc.	Electric shaver heads, Razor blades, Dentures, Combs, Toothbrushes etc.
Metal Articles	Metal Dishware	Stationery
Watch parts, Ancient coins, Badges, Machine nozzles etc.	Forks, Knives, Spoons, etc.	Pen-heads, Printer-heads, Inkjet cartridges, Seals etc.

## DIRT ELIMINATION PROCESS THROUGH ULTRASONIC TECHNOLOGY

- Cleaning effect will be much better if using the machine together with proper solvent.



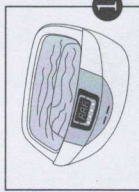
As ultrasonic wave through the solution in the tank, cause alternating high and low pressures in the solution.

During the low pressure stage, millions of microscopic bubbles form and grow. This process is called "CAVITATION".

During the high pressure stage, the bubbles implode releasing enormous amounts of energy. They work in all directions, attacking surface and invading all recesses and openings.



## FOUR WAYS OF CLEANING



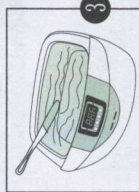
### GENERAL CLEANING

Use only tap water for general cleaning. The water should immerge the article to be cleaned, but not exceed "MAX" mark.



### ENHANCED CLEANING

Attention:  
When the article is smeary or extraordinary dirty, add about 25-30ml of detergent into water to enhance cleaning result, ultrasonic effect will be increased.



### CLEANING BY PARTS

For large article, partly cleaning as shown.



### EXTENSIVE CLEANING

When the item needs extensive cleaning or disinfecting, use "ENHANCED CLEANING" first, then replace the water and add about 5-10ml ordinary detergent, restart cleaning about 3 minutes.

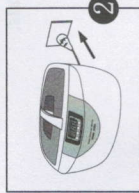
## OPERATION INSTRUCTIONS



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

**⚠ Running without water may damage the cleaner!**

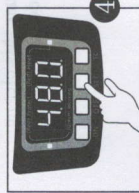
Place the article into water (The water should immerse the article to be cleaned, but not exceed "MAX-" mark).



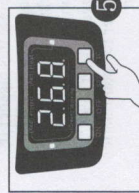
Close the lid and plug in (The indicator light will flash).



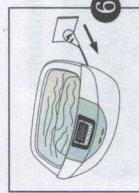
The digital screen displays the default time 180 seconds after plug in. Press the ON button, the red indicator light on and the machine start to work. It will automatically stop after 180 seconds with the red light off. Then the screen recover to default time and auto off without operation after 3 minutes.



Press "SET" button, 5 setting time can be chosen: 180s, 280s, 380s, 480s, 90s. Choose the time according to needs.



Please press "TC" if heating is needed while cleaning (red light in the right will on). Press "OFF" to pause working.



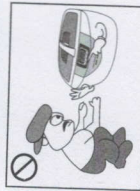
Plug off promptly when cleaning is finished. Then take the article out and pour the water from stainless steel tank and wipe it up.

During cleaning, you can hear the "ZIZI" noise, it means the ultrasonic cleaner is working.

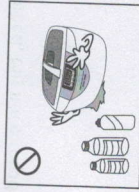


## IMPORTANT SAFETY INSTRUCTIONS

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



Do not disassemble the cleaner except for the authorized serviceman.



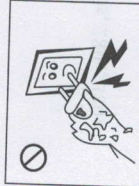
Do not fill the tank with abrasives or corrosive chemicals.



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



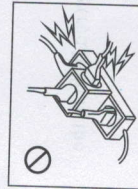
Do not immerse the cleaner in water to reduce the risk of electrocution.



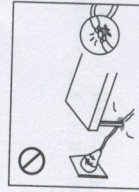
Do not touch the socket with wet hand to reduce the risk of electrocution.



Do not use this cleaner when sleeping or drowsy.



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



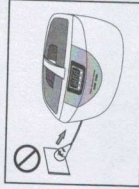
Never operate this cleaner if cord or plug is damaged. If it is not working properly, damaged into water, return the damaged cleaner to a service center for examination and repair.

**Machine must stop 5minutes after continues work for 30minutes.**

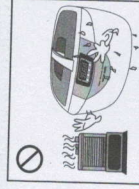
**⚠** Any unfirm inlaid article may become loose articles that easy to be discolored are not recommended for ultrasonic cleaning. For example: textiles, leather products, woodware, etc.

## IMPORTANT SAFETY INSTRUCTIONS

**⚠ DANGER-TO** reduce the risk of electrocution



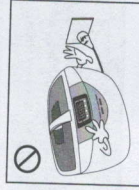
Unplug this cleaner immediately after using.



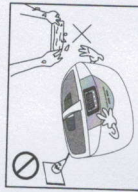
Keep the cleaner away from heat, and place it in a dry and level surface.



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



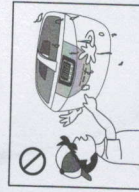
The cleaner should never be left unattended when plugged in.



Do not use while bathing.



Do not immerse the cleaner into water or other liquid.



Do not reach of the cleaner 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 hawkshell into the tank for cleaning.



## USER MAINTENANCE



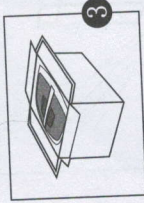
1 Unplug and empty the cleaner after using.

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



2 Wipe the tank and housing with dry towel.

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



3 Keep the cleaner in cool and dry place.

## USAGE OF OPTIONAL ACCESSORIES

### PLASTIC BASKET

When small item is to be cleaned, put the item into plastic basket, then put the basket into the tank. In this way, frictions between the item and the be reduced.

### Pay attention:

The plastic basket is only for cleaning small items, because it absorbs about 30% of ultrasonic energy and reduce the cleaning result. In this case, when using the plastic basket, please refer to the instruction of ENHANCED CLEANING in this manual.

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