Digital Ultrasonic Cleaner

CD-7920
CD-7920S

1	**Large tank with high cleaning efficiency**	Largest tank with highest power among our personal ultrasonic cleaners
2	**High power transducer**	Thicker transducer to generate stronger ultrasonic power
3	**Full-wave circuitry**	Cleaning effectiveness is increased 2-3 times vs. half-wave circuitry
4	**2-Color LED display**	Clearer display, easier to read
5	**Digital timer with 5 settings**	Suitable for different applications
6	**Cleaning CDs/DVDs**	Able to clean CDs/DVDs

CD-7920 has the largest tank with highest power among our personal ultrasonic cleaners

INTRODUCTION

Use tap water. Chemical solutions are unnecessary in most cases.

Principles of ultrasonic cleaning:
Millions of tiny air bubbles are generated inside the liquid by high frequency vibration. The air bubbles burst inside the liquid and shake off the debris to achieve the cleaning effect.

⚠
- Purified water or distilled water has the same cleaning effect as regular tap water for ultrasonic cleaning. Therefore using tap water is sufficient.
- When cleaning silver or copper items where oxidation has darkened the items, special solutions need to be added to the water to remove the oxidation.

Read the Manual First

The manual should be carefully reviewed before starting to use the device.
Warnings should be observed carefully. Please follow the manual for operations.

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SAFETY PRECAUTIONS

⚠️ **Keep it away from children!**

■ **This device is not intended for use by individuals with restricted physical, sensory or metal capacities or those with a lack of experience and/or knowledge, including children, unless they are supervised by an individual who is responsible for their safety or have received training in operating the device.**

Please store the ultrasonic cleaner where it is not reachable by children.

■ Danger to children! Danger for death through suffocation! Keep the packaging material away from children.

⚠️ **To prevent life-threatening electrical shock, please observe the following:**

■ **Danger of electrical shock!** Do not use while bathing. Never immerse the device or the power cord in water or other liquid.

■ Danger of electrical shock! Never touch the power plug with wet hands, especially when inserting or removing the plug.

■ Danger of electrical shock! If the unit has fallen into water during operation, do not touch the unit. Remove the power plug from the socket first.

■ **Danger of electrical shock!** Do not spray water or liquid over the device.

■ Never operate the device unattended.

■ Follow the manual to operate the device.

■ Do not use components unapproved by the manufacturer.

■ When removing the power cord from the socket, grab the power plug not the cord.

■ To protect the power cord from damage, do not cause it to get caught by things such as a cupboard door or a chair leg; do not drag across a hot surface.

■ If there is damage to the power plug, cord, housing, or other parts of the device, do not use the device.

■ Do not disassemble the device, except by professionals.

■ If the unit is damaged, non-operational or has fallen into water, take it to a qualified service provider.

■ Remove the power plug from the socket
-if malfunction occurs
-before cleaning the device
-if the device is not going to be used for prolonged period
-after each use (recommended)

■ The installation of an earth leakage circuit breaker with a rated tripping current of no more than 30 mA provides further protection against an electrical shock. The installation should only be carried out by a trained electrician.

■ The device may come with a polarized plug (one blade is wider than the other) for certain countries. As a safety feature, this plug will fit into a polarized outlet only one way. If the plug does not fit fully in an outlet, reverse the plug. If it still does not fit, contact a qualified electrician.

SAFETY PRECAUTIONS

⚠️ **To prevent fire hazards, please observe the following:**

- Never block the vents on the device. Keep the vents free from lint, hair and other materials.
- Do not place the device on a soft surface, such as a bed or a couch, where the vents could be blocked.
- Observe the other warnings in the previous section.

⚠️ **Other observations:**

- Do not operate the product without filling the tank with water. Running dry will damage the unit.
- Do not plug in the power cord before adding water to the tank. Do not fill the tank above the Max line to avoid overspill.
- Do not use solution containing abrasive substances or strong corrosive chemical solution not recommended by the manufacturer or the supplier.
- Place the device on a dry and flat surface for operation.
- When the device is subjected to severe electromagnetic interference, it may malfunction, stop operating or lose control functions. If this happens, unplug the power cord then reinsert it to restart the device.

⚠️ Items Not Suitable for Ultrasonic Cleaning

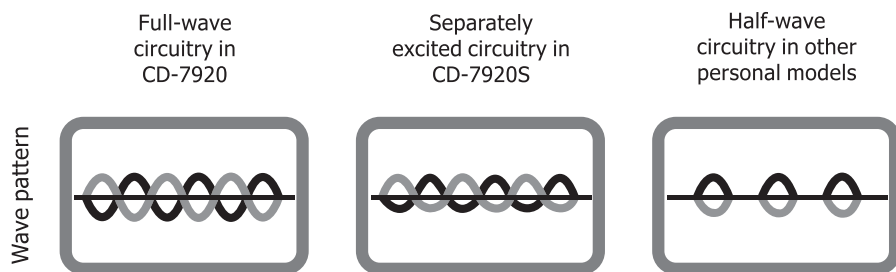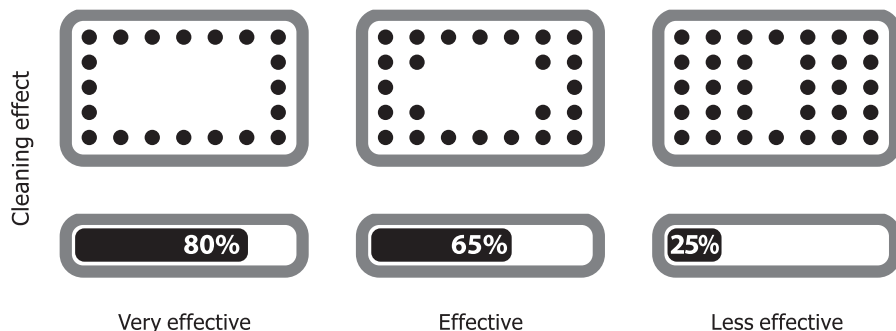|	
Soft Jewelry: Pearls, emerald, ivory, coral, agate, sea turtle shells, etc	These items are not hard, so scratches may occur during cleaning.
Welded, Plated and Glued Items: Welded or plated metal items, glued items	Ultrasonic cleaning may enlarge the gaps inside the welded joints, plated coating or glued items and may cause separation.
Watches: Except diver's watches with depth rating over 50 m (150 ft) .	Because the strong penetration capability of the ultrasonic waves, water may get into the watches if they are not truly waterproof. Use the watch stand supplied as a precaution if not sure.
Others: Wood; coated glass, ceramic, camera filters with preexisting cracks.	Ultrasonic cleaning may enlarge the cracks pre-existed in the coating on the glasses, ceramic, and glass. If the items have no pre-existing cracks, then it is okay.

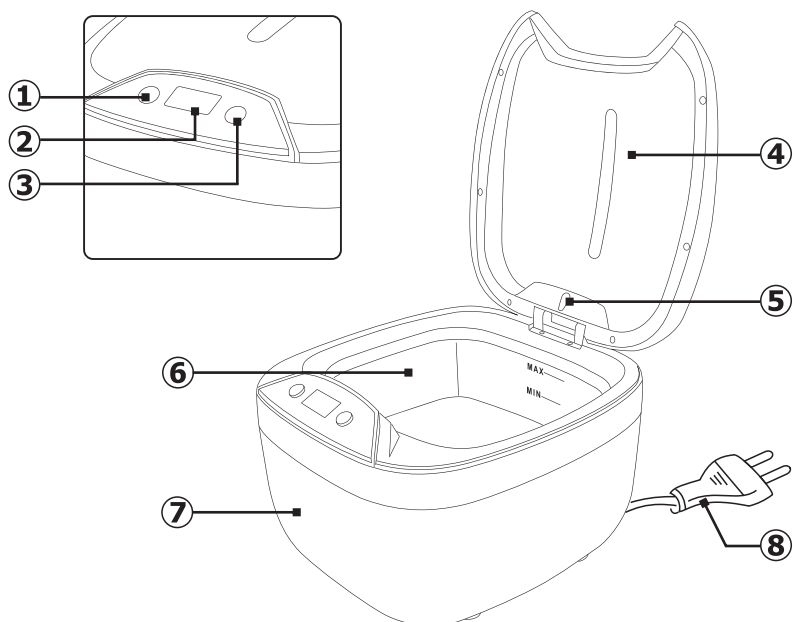# DIFFERENT WAVE PATTERNS FOR DIFFERENT CLEANING EFFECTIVENESS

Wave pattern

Full-wave circuitry in CD-7920	Separately excited circuitry in CD-7920S	Half-wave circuitry in other personal models

(Standard test specimens cleaned in 3 minutes, showing approximate areas cleaned):

Cleaning effect

80%	65%	25%
Very effective	Effective	Less effective

⚠️ CD-7920 utilizes professional grade full-wave circuitry. If the unit is turned on while the tank is empty, the ultrasonic energy will not be conveyed out through the media (water or solution). The power may jump to 80 W immediately, the tank will become hot and the PCB could be damaged after 20 seconds. Therefore this unit should not be turned on while it is empty.

① On/ Off Button   ② Time Display   ③ SET Button

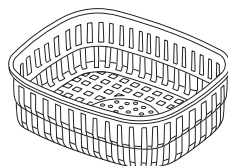④ View Window   ⑤ Blue LED   ⑥ Stainless Steel Tank

⑦ Housing   ⑧ Power Cord

Optional Accessories:

CD Stand   Watch Stand   Basket

APPLICATIONS AND TIMER SETTINGS

180 seconds (3 Minutes):

1

Default time for normal cleaning.

300 seconds (5 Minutes):

2

Recommended for cleaning several items together.

480 seconds (8 Minutes):

3

Recommended for greasy items and multiple items.

090 seconds (1.5 Minutes):

4

For CD/DVD and eyeglasses cleaning.

600 seconds (10 Minutes):

5

Recommended for heavily soiled items and multiple items.

Jewellery
Gold, silver, solid metal jewelry such as necklaces, rings, earrings, bracelets, etc.

1 2 3 **4** 5

Watches
Watch bands, waterproof wristwatches, etc.

1 **2** 3 4 5

Toiletry Items
Electric toothbrushes, electric shaver heads, razor, dentures, combs, etc.

1 **2** **3** 4 5

CDs and Eyeglasses
CDs, DVDs, eyeglasses, sunglasses, etc.

1 2 3 **4** 5

Office Equipment
Printer heads, fountain pens, rubber stamps, etc.

1 **2** **3** 4 5

Metal Items
Silverware, bearings, gears, valves, nozzles, small metal parts, coins, metal badges, etc.

1 2 **3** 4 **5**

Note: Long working time can cause certain items to loosen up such as screws on eyeglasses.
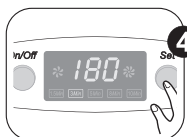
OPERATION INSTRUCTIONS

Open the cover, place the object to be cleaned inside the basket then in the stainless steel tank.

Fill the tank with tap water.
The liquid must cover the object that is to be cleaned, but must not exceed "MAX" line.
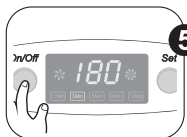
Close the cover and plug in the power cord.
- 180 appears in the display window.
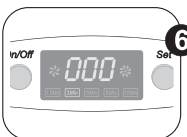- This is the default time and is good for normal cleaning.

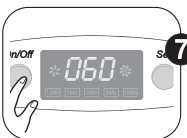Select desired time setting by pressing Set button:
180s → 300s → 480s → 90s → 600s

Press "On/Off" button to start the cleaning process.
The blue LED light lights up and the timer starts to count down to zero.

Note: *You'll hear buzzing sound which is normal.*

When the timer counts down to zero, the cleaning process stops automatically and the display shows *000*.

If you need to end the process ahead of time, press On/Off button. If you need to repeat the cycle or to increase the time, press Set button to select desired time then press On/Off button again to restart it.

⚠️ **Important!** *Long cycle time will cause heat to build up inside the unit and water temperature to rise. Do not use the unit for more than 20 minutes continuously. Take a 10-minute break in between to prolong the life of the unit.*
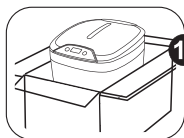
8 When cleaning is done, open the cover, remove the items.

9 Empty the tank by pouring out the water in the direction shown with arrow on the unit. Avoid pouring it over the front where the control panel is located. Wipe the tank clean and remove the power plug.

Note: To avoid residue building up, always empty the tank and wipe it clean. We recommend using fresh water each time.

10 Store the unit in a cool and dry place.

USE OF OPTIONAL ACCESSORIES

1

BASKET

Use the basket to clean small and delicate items. Ensure items not touching each other if cleaning multiple and delicate items.

Note: *Plastic basket absorbs about 30% of ultrasonic energy hence reduces cleaning effectiveness.*

2

WATCH STAND

Use the watch stand to keep watch body above water while cleaning wrist band.

Important: *For diver's watch with depth less than 50 m (150 ft), water may get inside if watch body is submerged in the water using an ultrasonic cleaner.*

3

CD STAND

Use the CD stand to hold CDs or DVDs.
2 CDs/DVDs can be inserted at the same time.

COMMON CLEANING METHODS

REGULAR CLEANING

Use tap water only

Cleaning Method:
1. Put the items to be cleaned inside the basket and put the basket inside the tank.
2. Add water to the cleaning tank to a level between "MIN" and "MAX" lines and above the area to be cleaned.
3. Press On/Off button to start cleaning.

> **Note:** *During cleaning, dirt will come off like smoke and the water will become murky over time. When* "smoke" stops coming, the cleaning is basically done.

ENHANCED CLEANING

Add appropriate cleaning solutions to water

Cleaning solution can be added to enhance cleaning. Typical mixing ratio may be one part of solution to ten parts of water. Once it's done, run it with water only for another 90 seconds to remove residual cleaning solution.

PARTIAL CLEANING

For longer items
If an item is too long to fit in the tank completely, it can be cleaned partially for one end first then turn it around to clean the other end.

> **Note:** *Sharp items should be placed inside the basket to protect the tank from being scratched.*

Unplug the power cord and empty the unit after each use.

⚠️ *Do not keep water in the cleaning tank for extended time.*

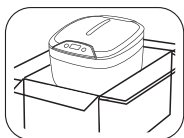When the power plug is not removed, the LED light stays lit and power consumption is less than 1 W.

Pour water from the sides, not over the front where the control panel is located.

Do not run the unit continuously for over 20 minutes. Stop for about 10 minutes in between to prolong the life of the unit.
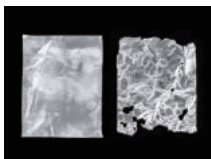
Do not spray water over the housing.
Use a towel to wipe the tank and the housing dry.

Do not expose the unit under direct sun shine for extended time.
keep the unit in a dry, cool and ventilated area.

SPECIFICATION

Description:	Digital Ultrasonic Cleaner
Model:	CD-7920 CD-7920S
Tank Capacity	850 ml / 0.9 qt (US) Max.700 ml / 0.7 qt (US) Min.400 ml / 0.4 qt (US)
Tank Size	14.8x12.6x4.7 cm / 5.8"x4.9"x1.8"
Digital Timer:	(3Min) (5Min) (8Min) (10Min) (1.5Min) 180s → 300s → 480s → 90s → 600s
Power:	CD-7920: AC100V~ 50/60Hz, 32W AC100-120V~ 60Hz, 42W AC220-240V~ 50Hz, 55W
	CD-7920S: AC100V~ 50/60Hz, 30W AC100-120V~ 60Hz, 38W AC220-240V~ 50Hz, 50W
Ultrasonic Frequency:	CD-7920: 42 KHz CD-7920S: 46 KHz
Tank Material:	Stainless steel SUS304
Housing Material	ABS
Power Cord Length (About):	1.5 m
Net Weight (N.W.):	1.09 kg / 2.4 lb
Gross Weight (G.W.):	1.4 kg / 3.1 lb
Unit Size	20.3x18.3x14.5 cm / 8.0"x7.2"x5.7"
Inner Box Size	24.2x21.5x17.9 cm / 9.5"x8.4"x7.0"
Qty per Master Carton	8 pcs/ctn
Master Carton Size	50.5x45.0x38.0 cm/19.9"x17.7"x15.0"
Accessories	plastic basket-1pc; watch stand-1pc; CD stand-1pc

An ultrasonic cleaner should be able to pierce foil paper located at the bottom of the tank under normal working condition for 90s. The bigger the hole is, the stronger cleaning ability owns. You just need a piece of foil paper and to prepare your ultrasonic cleaner and then begin your test:
1. Put the foil paper on the bottom of water tank and pour enough water.
2. Turn on the device for 90s.