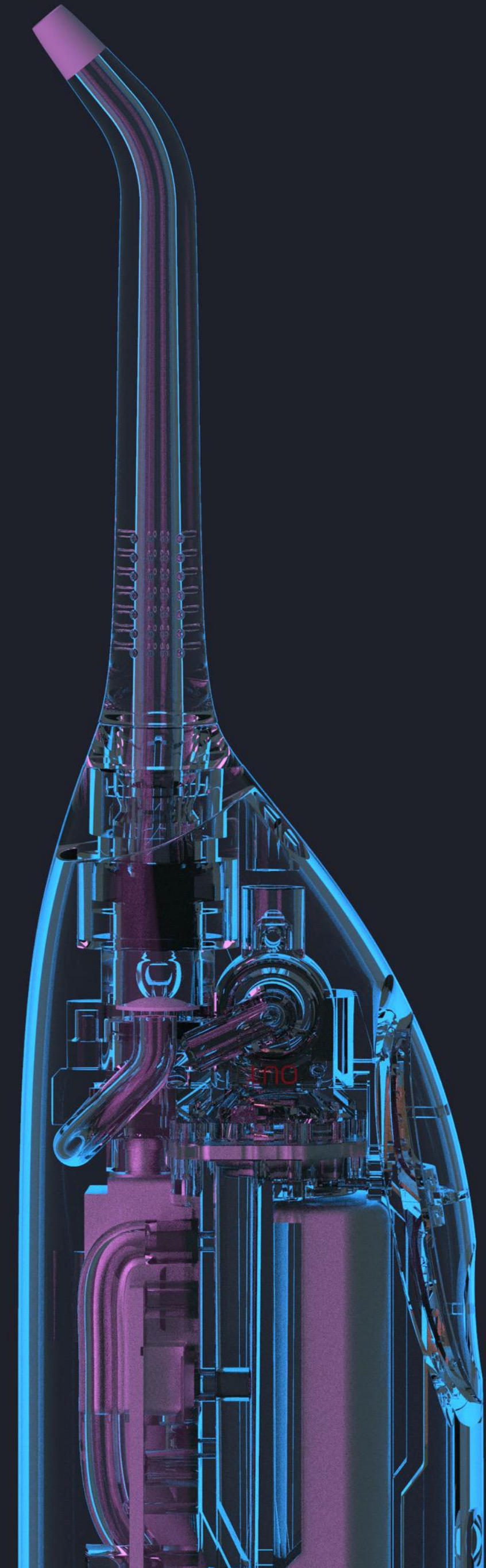




# Oclean W1 Smart Oral Irrigator

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## About Oral Irrigator

Irrigator, also known as a water flosser, is an auxiliary tool for cleaning the oral cavity. It uses pulsed water impact to clean teeth and between teeth. The impact of water simulates the cleaning power of physical floss to clean teeth, to prevent food corruption in the gap between teeth, causing bacteria to grow, damage the teeth, and produce breath. The main product types are portable and desktop.

The main function of the oral irrigator is to clean the bacteria and food residue between the teeth and under the gums, while the electric toothbrush is to clean the surface of the teeth.

The dentist recommends the use of the two together, which can greatly maintain oral health, and are known as the two great tools for oral cleaning.



# Analysis of current situation of oral irrigator

## Two technological paths in the current industry

### High-pressure water pulse

The water flow is released by means of high-pressure pulses. The technical principle is similar to that of a high-pressure car washing water gun, which sprays high-pressure water at high frequency to wash the mouth in a short time.

**waterpik**  
is the world's first brand,  
other brands  
Basically imitate this  
principle to produce



### Microburst air flow

Mainly through aerodynamics, a certain amount of water is brought out during the rapid air flow, and cleaned by a mixture of air and water;



**Philips patented  
technology**  
Currently exclusively  
used by Philips



Current situation analysis		
Type	High-pressure water pulse	Microburst air flow
Principle	The water flow is driven by the water pump, and after the water flow passes through the nozzle, the pulse jet impacts the mouth. The principle is similar to the "high pressure washer" used in car washes.	The principle of the micro-explosive airflow technology is similar to that of a high-pressure air gun, that is, the air-jet technology is used to "blow" out the food residue in the teeth, and then the water stream is used to "wash" the residue away
Water volume	Very water-consuming, portable models usually require two or three injections to complete the whole mouthful cleaning	✓ Very water-saving, no need to store water halfway for cleaning once, it is more convenient to use.
Volume	It needs to be equipped with large water tank, so it is large in volume and poor in portability.	✓ Configuration of ultra-small water tank, can make the volume small, portability is excellent.
Experience	Strong impact, low comfort, easy to bleed / hit throat	✓ Small impact force, poor cleaning force, more comfortable to use.

# Current situation of oral irrigator-bad comment from user

Keyword source: Tmall and JD user reviews

Poor quality  
too expensive  
Leaking  
(Waterpik)  
Too noisy  
The water tank is too small  
(Need to refill water halfway)  
Bleeding gums



Too little spray  
Poor strength  
Have no effect  
(Philips)  
The nozzle is always falling off  
useless



# The 3rd Solution





# User experience

## **Compressed air powered umbrella jet without bleeding**

Using the new "compressed air power" technology, through the high-pressure air pump air valve assembly, the water stream is mixed with air umbrella-like spray, reducing the gum damage, gum bleeding, needle puncture and other problems that may be caused by the impact of pure water stream. Oclean's aerodynamic water flow technology can greatly reduce the discomfort during tooth flushing while ensuring the cleaning power.

## **Low water volume, more efficient, fast and efficient flushing experience**

The water-air hybrid technology of the Oclean oral irrigator requires only 1/10 of the water volume of the ordinary dental flusher. A tank of water can spray about 160 times, and a tank of water can rinse each tooth 5 times on average, and fill water at a time. Flushing the whole mouth, convenient and efficient, at the same time, you can use the full mouthwash method to flush your teeth to refresh your breath.

## **Solve the problem of poor cleaning power of existing gas explosion principle products**

Oclean uses water-air hybrid power to drive the water flow with high-pressure air, which can increase the water volume by 3 times compared with Philips micro-explosive airflow products, increase the impulse by 33%, and have a stronger cleaning power.

## **Successive jet technology, flushing teeth no longer full of saliva**

After many calculations and user experience, the Oclean oral irrigator adopts 3 times in per 2 seconds of successive injection technology, and the user can adjust the position of the flush teeth between each injection interval to prevent water splashing.





# Power jet cleaning principle

After high-speed compression, after 0.1s high-speed injection, the high-speed air flow will bring out the water flow in the power storage tank.

After mixing, it will spray the user's mouth to wash the area centered on the interdental space and clean the interdental and periodontal pockets.



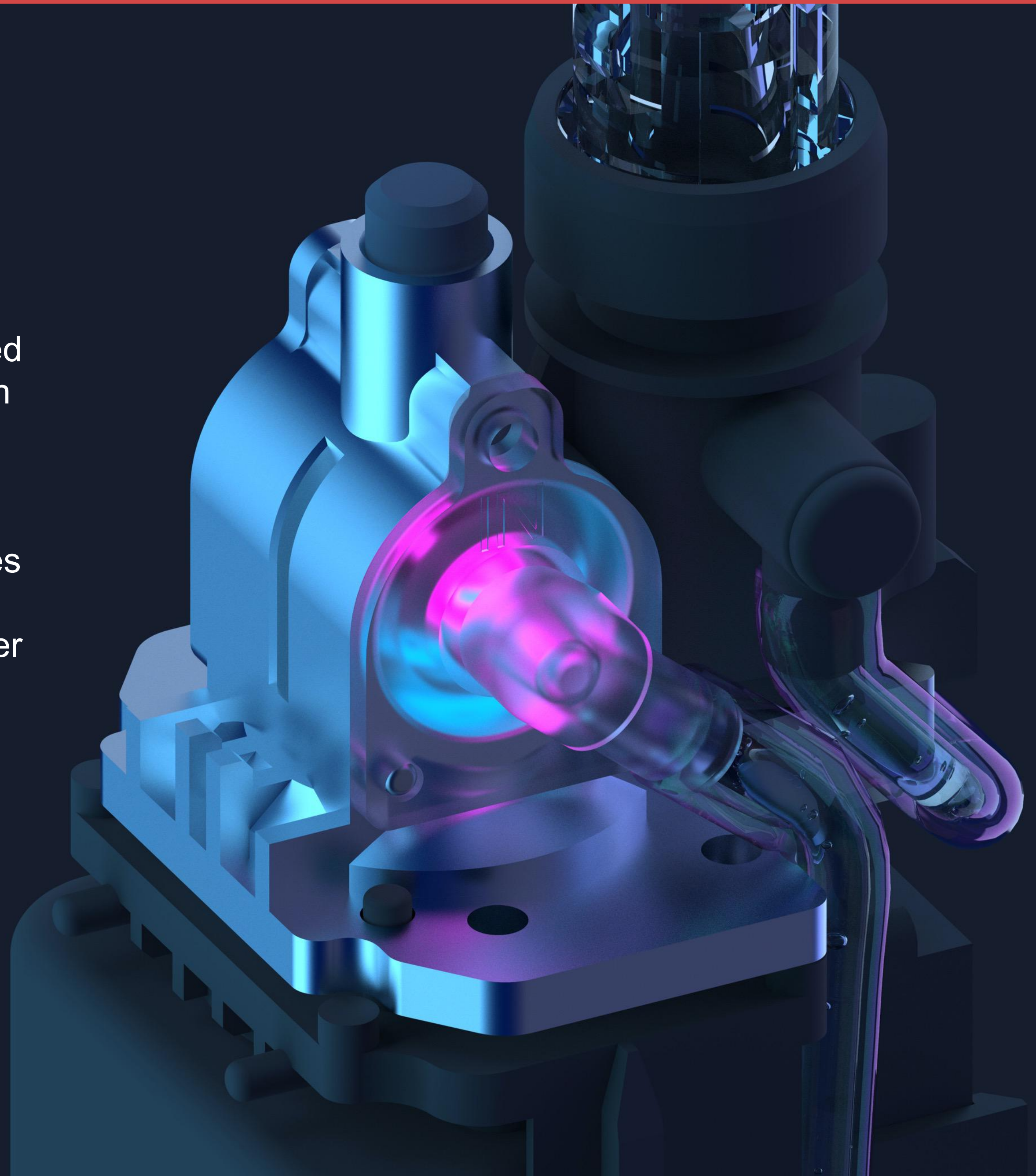


# Safer and More Comfortable

The traditional oral irrigator relies on the impact force generated by the jet of water to clean the gums and teeth. Due to the high density of water, the impact force is also greater, and bleeding from the gums is common.

Oclean's new patented water-air combination method combines water and air to form sufficient impact force and avoid gum damage that may be caused by continuous high-pressure water jets.

It can ensure cleanliness and at the same time have sufficient comfort.



# Clean in one step without adding water halfway

The water-air jet design greatly reduces water consumption. The 30ml water tank can reach about 160 injections, and each interdental can be flushed 5 times on average, and water is added once to meet the flushing needs.





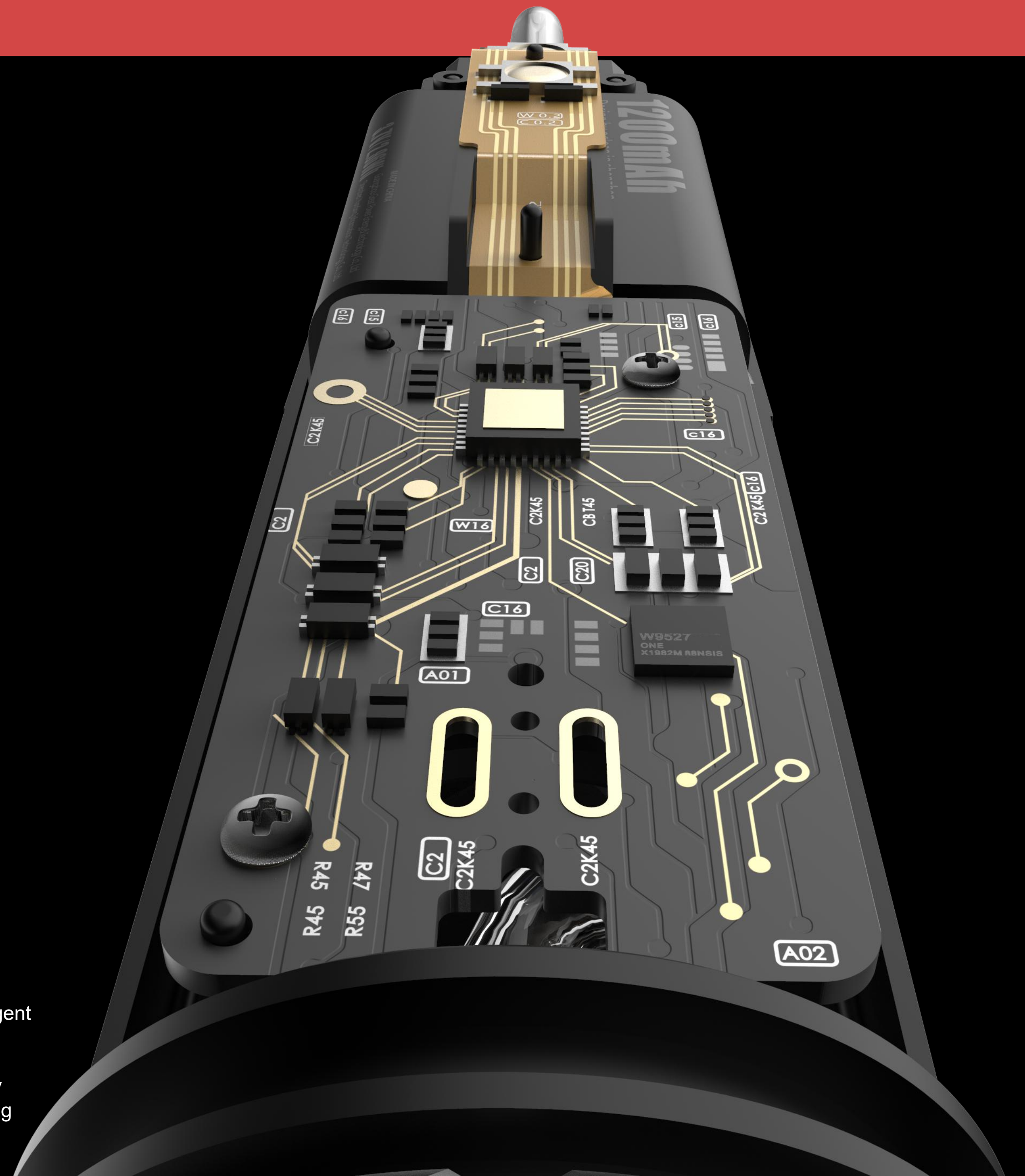
# Automatic cleaning tooth washing and massage

Select and plan the cleaning scheme through the app, only one button is needed to start each time, and the spray mode is automatically carried out according to the combination of strength and weakness of planning.

For example, the general feeling of gingival massage in music rhythm can support a variety of different combination experiences of strength and weakness, and different schemes can be freely selected for people with different oral conditions.

\*The application of intelligent chip and numerical control solenoid valve make the punch have more intelligent functions

The frequency conversion control is realized, which can control the running state of the motor immediately under the running state of the product, so as to create a novel operation mode. It can combine the spraying force to fit the user's feeling.



# "Smallest" Portable teether products

momentum

**Up 33%**

Water tank

Water storage

injection

**30ml**

**4times**

**About 160**

**times/2 minutes**

(\*Compare with Philips)

The body of Oclean is smaller than the Philips dental flusher with a water tank of only 9ml. It provides 3 times the water storage capacity and supports more than 160 sprays (2 minutes). The water volume in a single jet is 4 times that of Philips, and the single flushing force is increased by about 33%.



Waterpik

Oclean

Philips





Mode selection

In the standby state, press the power button to wake up, the gear lights flash from top to bottom, and finally stay in the last used gear;

Long Press Switch

Need to change gears. Short press the gear shift key to switch gears from top to bottom in turn

Level 1 punching force

In the case of low power, the work button lights up red to indicate low power

Level 2 punching force

Level 3 punching force  
(After connecting to the APP, you can choose 6 levels and more strength)

When the charger is connected, the white light will breathe, and the white light will always be on when it is full. Other lights are not on

**Rotatable  
Nozzle**




**Streamlined  
Design**



**Convenient and  
Removable Magnetic  
Water Tank**



# Competitive product comparison—innovative technology

	Product	Principle	Portability	Does it need to add water halfway	Comfort	Others	Price
Waterpik		High-pressure water pulse	Poor, huge volume, 300m large water tank	The principle of pure water flow, so if the water tank is too large, it may be necessary to add water in the middle, resulting in a longer time for each tooth flushing	Worst. If the impact is too strong, the gums will bleed easily.	Level 3 force can be adjusted	\$79.99
Philips		Microburst air flow	Excellent, small size, 9ml mini water tank	The 9ml mini water tank mainly relies on gas injection, and water injection is about 120 times at a time.	Excellent, mainly relying on the ejection of gas, and the ejection range is wide, so the impact force is weak.	The number of injection can be adjusted 1-3. Ordinary mechanical pump	\$99.9
Oclean		Aerodynamic type	Excellent, smallest volume, 30ml medium water tank	The 30ml small water tank adopts the principle of gas propelled and mixed with water jets, and sprays more than 150 times at one time without adding water in the middle.	Excellent, the blown air drives the water flow to wash the mouth, the water and air are combined, and the impact is moderate.	<b>CNC pump</b> The spray force is adjustable, and the spray mode is adjustable. A total of 9 levels of force can be set by the App	\$79.99

Remarks: At present, only Philips HX8831 has similar principles for aerodynamic similar products. The online reviews of this product have a high evaluation of comfort, but a low evaluation of cleaning power. Therefore, on the basis of solving the problem of this product, we use this product nearly 1/ The price of 3 achieves a better experience.

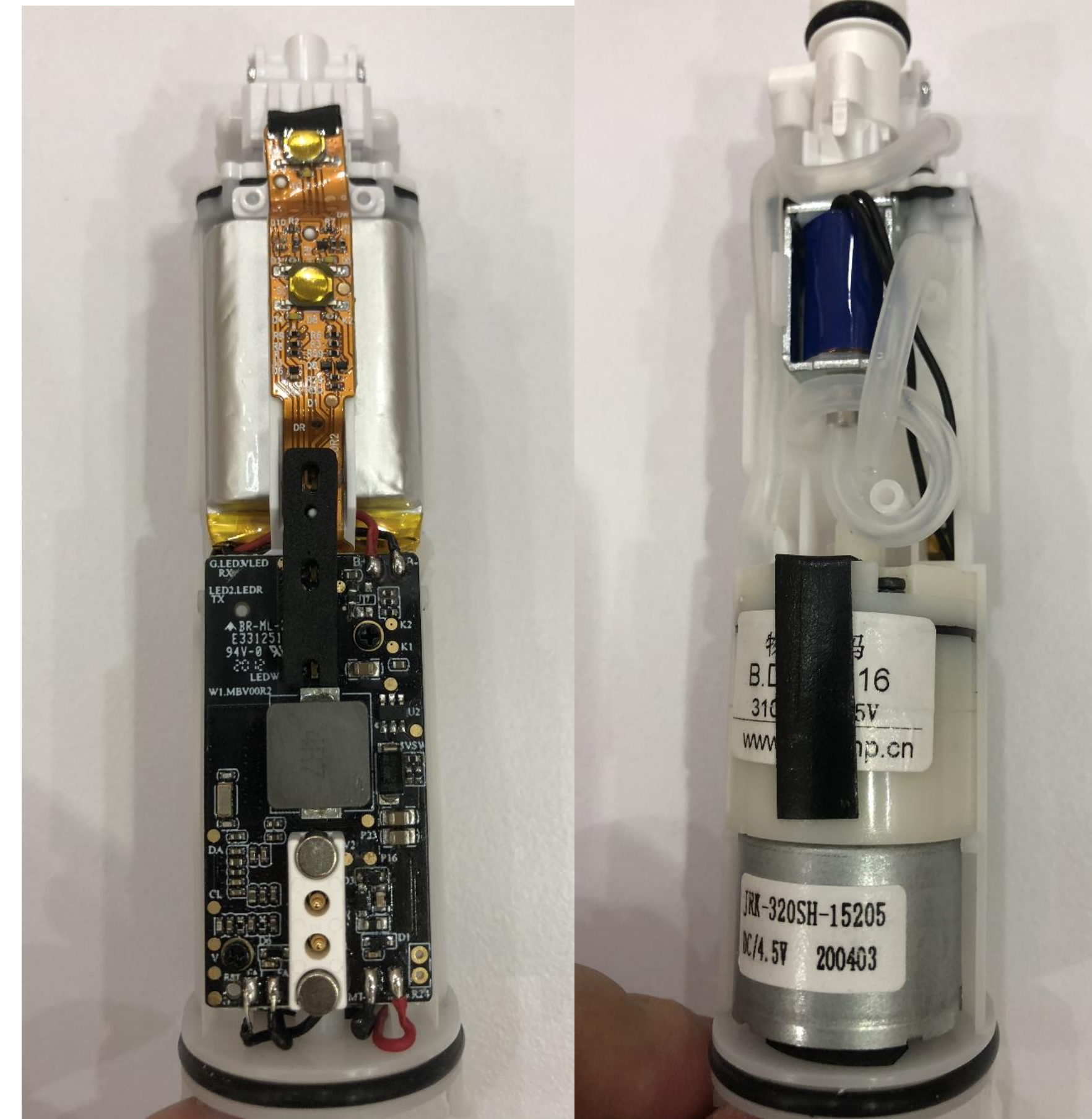
# Competitive product comparison-internal structure cost analysis

Waterpik disassembly diagram of pulse oral irrigator



Simple pump structure  
Low cost, estimated cost  
of 50 yuan

Oclean W1 disassembly diagram



Water-air mixing mechanism, independent design of water/air path,  
Support Bluetooth solution customization  
The cost is more than 3-4 times that of ordinary tooth punch



# Product selling point integration

- ✓ Small size, ultra-portable flushing device.
- ✓ Innovative aerodynamic oral irrigator; stronger cleaning power, more comfortable flushing experience.
- ✓ Intelligent oral irrigator, supporting the combination scheme of dental floss mode, gentle mode, gum massage mode and APP setting mode
- ✓ Travel kit for dental flusher, convenient to take away.
- ✓ The water and air mixing method has stronger protection to the gums, cleaning and reducing periodontal damage.
- ✓ The mixture of water and air reduces the growth of anaerobic bacteria during tooth flushing and freshens breath.
- ✓ It can be used with mouthwash to sterilize and reduce inflammation, and the breath is fresher.
- ✓ APP can set different cleaning mode combination schemes.
- ✓ The volume of the water tank is 30ml, which can meet the requirement of about 160 injections





**Portable travel case**



W1 Function

Weight	159 g
Size	413 X 339 X 239 mm
Cylinder volume	3.0 ml
Tank Volume	30ml / About 160 times of effective tooth flushing
Punching force	Level 9 (the oral irrigator with 3 levels, and the APP is further set to level 6)
Pumping frequency	Standard mode about 3 times / 2S; gentle mode about 2 times /1S
Jet nozzle	1 PCS, With pressure relief groove
Bluetooth	BT4.2 and above, support the automatic flushing plan issued by Oclean APP
Charge	USB interface / 5V 1A charging / 3 hours full charge
Battery capacity	1200mAh
Endurance	30 boxes of water / flushing teeth once a day, can be used for one month
Water supply speed	55 injections can form an effective pump

# Thank you