



Inneest

UV-LED Water Purifier

 Shenzhen Hechuang Hitech Co., Ltd.

HC-JSH-001



HC-JSH-001

227*146*56mm

Colors can be customize



Revolutionary New Generation Technology

LED Materials Elevate Drinking Water Experience

HC-JSH-002 Second Generation with Screen, Sterilization visualbility



HC-JSH-002

227*146*56mm

**With Screen shows Real-time UV
Dose Rate & Sterilizing Rate**

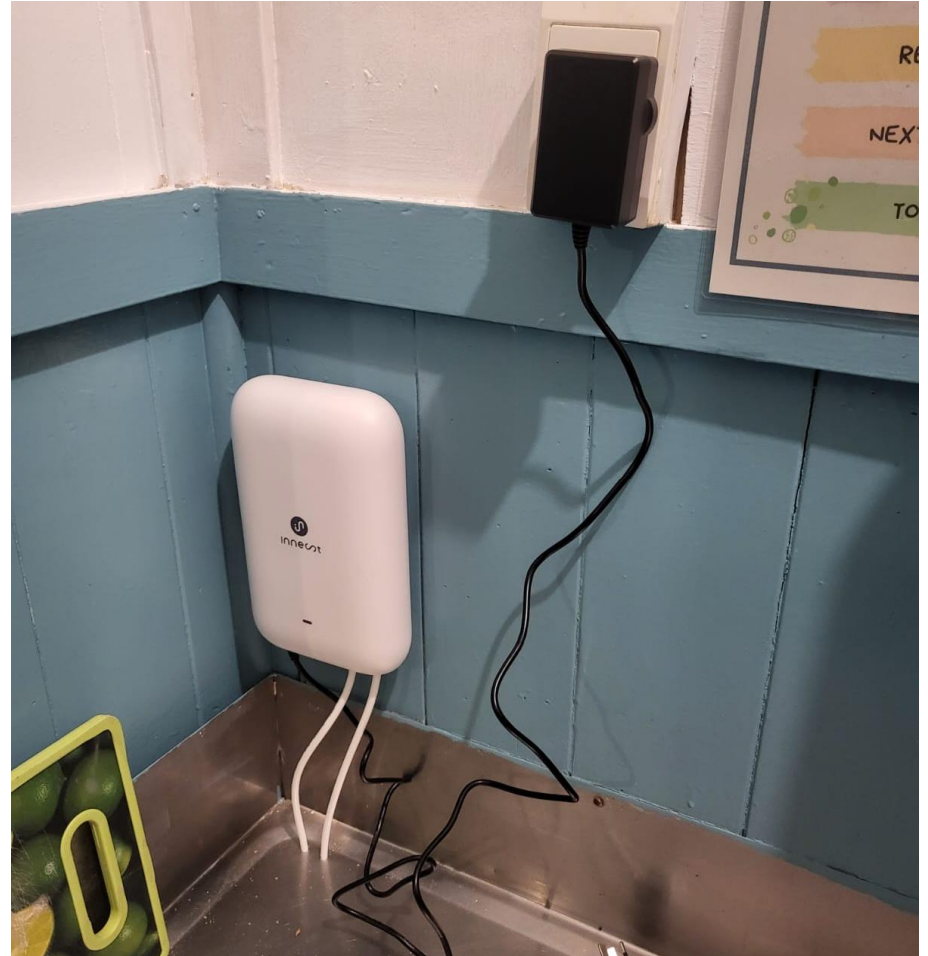
New Second Generation Digital Screen UVC-LED Water Purifier

Deep sterilization
Start from water

A white water purifier is shown on a wooden tray in a bathroom setting. To the left of the purifier are eight circular icons representing its features. The purifier's digital screen shows 'UVC mJ/cm²' at '00.0' and 'Purified %' at '99.999'. The 'inness' logo is visible below the screen.

- Digital display
- Long life lasting
- 3.0L/min water flow
- Disinfection rate 99.999%
- Preserve raw water quality
- Safe and leak-proof
- Small and easy to install
- No need replace filter

Real Installation Cases – End Users



Real Installation Cases – End Users



Real Installation Cases – End Users



Specifications, Functions and Features

Specification

Input: 100-260V, 50/60HZ

Output: DC12/24V-2A

Power: 5/10W

Water Pressure: 0.1-0.4Mpa

Temperature: 5-45° C

Switch: Flow Switch

Disinfection Waveband: UVC 260-280NM

Water Flow Rate: 1.0- 4.0L/min

Functions

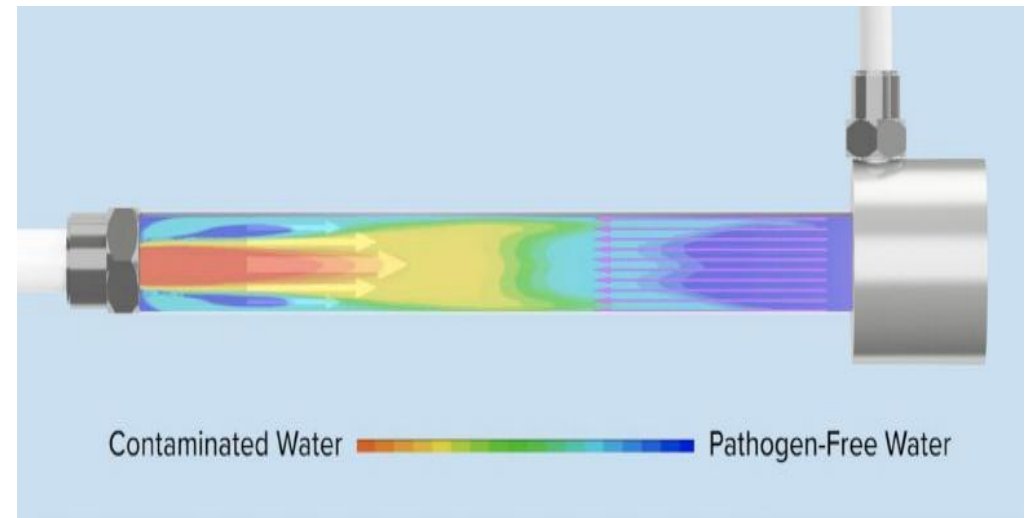
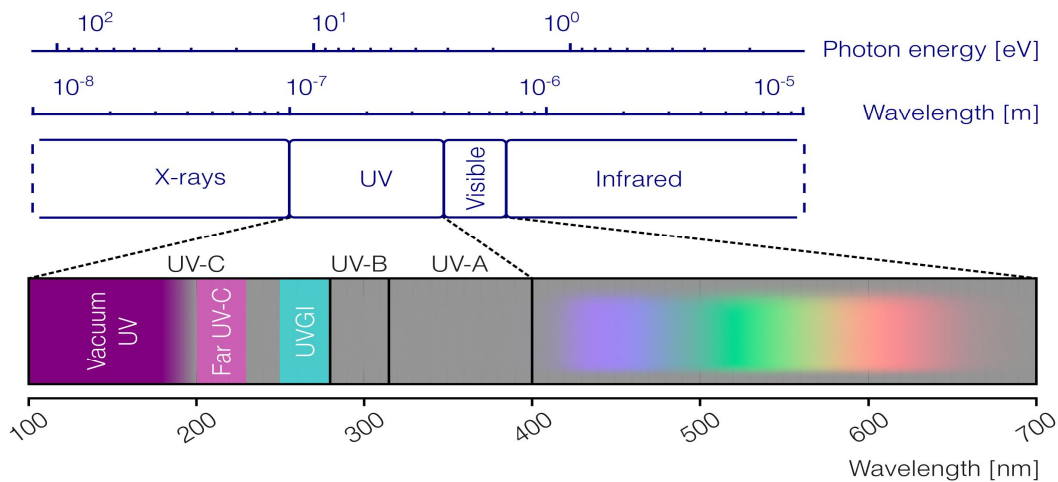
INNEST UVC water purifier is connected to the water pipe to disinfect the drinking water, utilizes strong short-wavelength (260–280nm) radiation to inactivate microorganisms by destroying the nucleic acids and disrupting their DNA, the growth cells and (or) regenerative cells are killed to achieve the effect of sterilization and disinfection. (elimination: cocci, bacilli, vibrio, spirochetes, etc.)

Features

1. The water after disinfection and purification can be directly drunk, while retaining the minerals and trace elements needed by the human body.
2. The disinfection rate is as high as 99.999%, and the water flow can reach to 6 liters/min to meet the drinking water demand.
3. Easy to install, no replacements. Maintenance-free & water leakage prevention.

Disinfection Principle

UVC disinfection utilizes strong short-wavelength (260–280nm) radiation to inactivate microorganisms by destroying the nucleic acids and disrupting their DNA and RNA, resulting in the death of growing cells and/or regenerative cells to achieve the effect of sterilization and disinfection. This makes UV disinfection as one of the fastest disinfection growing technologies.



General Installation / Operation

Insert the 1/4-inch water tube into the IN end and connect the output end to the 1/4-inch OUT end. Connect the power adapter to an AC outlet and insert the output end into the DC port of the UVC water purifier.

The power indicator light will illuminate Red. Activate the faucet; the work indicator will light up Green, signifying that the product has commenced operation



Benefits



Food-grade Sus316L
Stainless steel water
purification module.

99.999% sterilization.

1.2L/min Powerful
water flow.

Chemical-free disinfection

Don't introduce any chemicals into the water, making them an environmentally friendly option for water treatment.

Effective against a wide range of microorganisms

Is capable of inactivating bacteria, viruses, and protozoa, including chlorine-resistant pathogens like Cryptosporidium and Giardia.

No change in taste, odor, or color

The treatment does not alter the taste, odor, or color of the water, ensuring that it remains fresh and appealing.

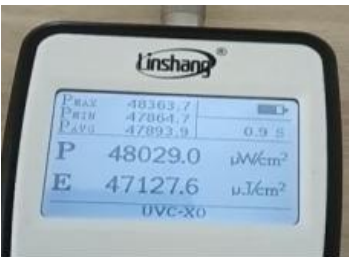


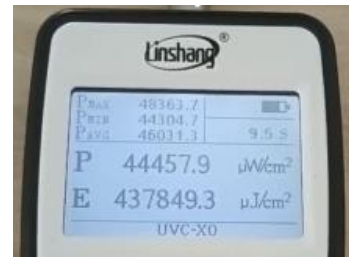
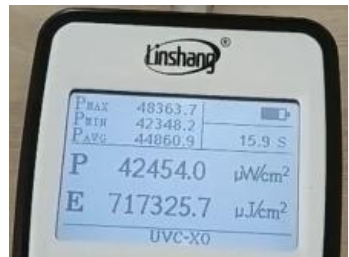
Maintenance-free

UV-LED integrated disinfection module design, no lamp replacement, maintenance-free

Energy-efficient

Consume relatively low amounts of energy, making them an energy-efficient solution for water disinfection.

UV DOSE Testing Report


Testing By LS125 -Multi Probe Ultraviolet Irradiameter					
Testing Module	HC-MK-40A-155	HC-MK-40A-155	HC-MK-40A-155	HC-MK-40A-155	HC-MK-40A-155
Timing (second)	0.9	2.9	5.0	9.5	15.9
UV Intensity (μW/cm²)	48029.0	47212.8	46198.1	44457.9	42454.0
UV Intensity (mW/cm²)	48.0	47.2	46.2	44.5	42.4
UV DOSE (μJ/cm²)	47127.6	142034.6	234962.4	437849.3	717325.7
UV DOSE (mJ/cm²)	47.1	142.0	235.0	437.8	717.3

Disinfection rate of INNEST UVC water purifier

Microorganism	Type	Others	Strike 0.8-1.2LPM	Strike 1.5-2LPM	
		竞品	Strike 0.8-1.2LPM	Strike 1.5-2LPM	
		2-log <i>E.coli</i> (99%) 6.4 mJ/cm ²	4-log <i>E.coli</i> (99.99%) 8.9 mJ/cm ²	6-log <i>E.coli</i> (99.9999%) >12.1 mJ/cm ²	
<i>Citrobacter</i>	柠檬酸杆菌	Bacteria	2-log	4-log	6-log
<i>Klebsiella</i>	克雷白氏杆菌	Bacteria	2-log	4-log	6-log
<i>Legionella</i>	军团杆菌	Bacteria	3-log	5-log	>6-log
<i>Pseudomonas</i>	假单胞菌	Bacteria	2-log	4-log	6-log
<i>Salmonella</i>	沙门氏菌	Bacteria	2-log	4-log	>6-log
<i>Staphylococcus</i>	葡萄球菌	Bacteria	2-log	4-log	6-log
<i>Shigella</i>	志贺氏杆菌	Bacteria	2-log	4-log	>6-log
<i>Cryptosporidium</i>	隐孢子虫	Protozoa/Cysts	2-log	4-log	5-log
<i>Giardia</i>	贾第鞭毛虫	Protozoa/Cysts	1-log	3-log	4-log
<i>Encephalitozoon</i>	脑胞内原虫	Protozoa/Cysts	1-log	3-log	5-log
Hepatitis A/Influenza	甲型肝炎/流感病毒	Virus	1-log	2-log	3-log
<i>Calicivirus</i>	杯状病毒	Virus	-	2-log	3-log
<i>Poliovirus</i>	脊髓灰质炎病毒	Virus	-	1-log	2-log
<i>Coxsackievirus</i>	柯萨奇病毒	Virus	-	1-log	2-log
<i>Rotavirus</i>	轮状病毒	Virus	-	1-log	2-log
<i>Echovirus</i>	艾柯病毒	Virus	-	1-log	2-log

Patents

证书号第 13094515 号



实用新型专利证书

实用新型名称: UV 杀菌装置及净化器

发明人: 刘文政; 罗奇辉; 曾炜; 叶方杰

专利号: ZL 2020 2 1014301.7

专利申请日: 2020 年 06 月 04 日

专利权人: 深圳市合创技术有限公司

地址: 518000 广东省深圳市龙岗区龙城街道黄阁坑社区黄阁北路 449 号龙岗天安数码创新园 3 号厂房 B401-W

授权公告日: 2021 年 05 月 04 日 授权公告号: CN 213099606 U

国家知识产权局依照中华人民共和国专利法经过初步审查, 决定授予专利权, 颁发实用新型专利证书并在专利登记簿上予以登记。专利权自授权公告之日起生效, 专利期限为十年, 自申请日起算。

专利证书记载专利登记时的法律状况, 专利权的转移、质押、无效、终止、恢复和专利权人的姓名或名称、国籍、地址变更等事项记载在专利登记簿上。


局长 申长雨



第 1 页 (共 2 页)

其他事项参见续页

证书号第 13097520 号



实用新型专利证书

实用新型名称: 净化器

发明人: 刘文政; 罗奇辉; 曾炜; 叶方杰

专利号: ZL 2020 2 1013088.8

专利申请日: 2020 年 06 月 04 日

专利权人: 深圳市合创技术有限公司


地址: 518000 广东省深圳市龙岗区龙城街道黄阁坑社区黄阁北路 449 号龙岗天安数码创新园 3 号厂房 B401-W

授权公告日: 2021 年 05 月 04 日 授权公告号: CN 213112613 U

国家知识产权局依照中华人民共和国专利法经过初步审查, 决定授予专利权, 颁发实用新型专利证书并在专利登记簿上予以登记。专利权自授权公告之日起生效, 专利期限为十年, 自申请日起算。

专利证书记载专利登记时的法律状况, 专利权的转移、质押、无效、终止、恢复和专利权人的姓名或名称、国籍、地址变更等事项记载在专利登记簿上。


局长 申长雨



第 1 页 (共 2 页)

其他事项参见续页

证书号第 7257485 号



外观设计专利证书

外观设计名称: 杀菌净水盒(O.LV)

设计人: 刘文政; 罗奇辉; 曾炜; 叶方杰

专利号: ZL 2021 3 0668788.4

专利申请日: 2021 年 10 月 12 日

专利权人: 深圳市合创技术有限公司


地址: 518000 广东省深圳市龙岗区龙城街道黄阁坑社区腾飞路 9 号创投大厦 2406

授权公告日: 2022 年 04 月 05 日 授权公告号: CN 307236544 S

国家知识产权局依照中华人民共和国专利法经过初步审查, 决定授予专利权, 颁发外观设计专利证书并在专利登记簿上予以登记。专利权自授权公告之日起生效, 专利期限为十五年, 自申请日起算。

专利证书记载专利登记时的法律状况, 专利权的转移、质押、无效、终止、恢复和专利权人的姓名或名称、国籍、地址变更等事项记载在专利登记簿上。

局长 申长雨



第 1 页 (共 2 页)

其他事项参见续页

证书号第 16150200 号



实用新型专利证书

实用新型名称: 智能坐便器系菌喷头

发明人: 刘文政; 罗奇辉; 曾炜; 叶方杰

专利号: ZL 2021 2 2460854.6

专利申请日: 2021 年 10 月 12 日

专利权人: 深圳市合创技术有限公司

地址: 518000 广东省深圳市龙岗区龙城街道黄阁坑社区腾飞路 9 号创投大厦 2406

授权公告日: 2022 年 04 月 05 日 授权公告号: CN 218195210 U

国家知识产权局依照中华人民共和国专利法经过初步审查, 决定授予专利权, 颁发实用新型专利证书并在专利登记簿上予以登记。专利权自授权公告之日起生效, 专利期限为十年, 自申请日起算。

专利证书记载专利登记时的法律状况, 专利权的转移、质押、无效、终止、恢复和专利权人的姓名或名称、国籍、地址变更等事项记载在专利登记簿上。

局长 申长雨



第 1 页 (共 2 页)

其他事项参见续页

Certificates: EPA, FDA, CE, ROHS, FCC, PSE, SGS etc.

CERTIFICATE ◆ CERTIFICATE ◆ CERTIFICATE



CERTIFICATE OF CONFORMITY

EU- Electromagnetic Compatibility (EMC) -
No.: CTB220616018EX-ZS

Applicant : Shenzhen Hechuang Hitech Co., Ltd.
Address : #2406, Chuangtou Building, Longgang District, Shenzhen, P.R.China, 518172
Manufacturer : Shenzhen Hechuang Hitech Co., Ltd.
Address : #2406, Chuangtou Building, Longgang District, Shenzhen, P.R.China, 518172
Product : Innest UVC Water Purifier
Trade Mark : Innest
Model(s) : HC-JSH-001
Test Report No.: CTB220616018EX
Test Standards : EN IEC 55014-1:2021, EN IEC 55014-2:2021
EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013/A1:2019

The tests that base on the above designated product Complies with the essential requirements of Directive 2014/30/EU relating to Electrical Equipment designed for use within Electromagnetic Compatibility.

The test results apply only to the particular sample tested and the applicative tests carries out.

The CE marking as shown below can be affixed on product after manufacturer carries out all stipulation activities integrally of above-mentioned Regulation (Directive) and preparation of necessary technical documentation as well as the conformity declaration.

This statement is based on a single evaluation of sample of above-mentioned product. It does not imply an assessment of the whole production process.

Other relevant Regulation (Directive) requirement have to be observed.



Shenzhen CTB Testing Technology Co., Ltd
Add: Floor 1&2, Building A, 26 of Xinghe Road, Xinqiao Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China.
Web: www.ctb-lab.net Tel: 4008-707-283 Email: ctb@ctb-lab.net

VERIFICATION ◆ VERIFICATION ◆ VERIFICATION



VERIFICATION OF CONFORMITY

- Federal Communications Commission (FCC) -
No.: CTB220616019EX-ZS

Applicant : Shenzhen Hechuang Hitech Co., Ltd.
Address : #2406, Chuangtou Building, Longgang District, Shenzhen, P.R.China, 518172
Manufacturer : Shenzhen Hechuang Hitech Co., Ltd.
Address : #2406, Chuangtou Building, Longgang District, Shenzhen, P.R.China, 518172
Product : Innest UVC Water Purifier
Trade Mark : Innest
Model(s) : HC-JSH-001
Test Report No.: CTB220616019EX
Test Standards : CFR47, FCC Part 15 Subpart B, ANSI C63.4: 2014

Conform to the applicable FCC Rules and Regulations. The method of testing was in accordance to the most accurate measurement standards.

Possible, and that all necessary steps have been enforced to assure that all production units of the same equipment will continue to comply with the Federal Communications Commission's requirements.

Other relevant Rules have to be observed.



Shenzhen CTB Testing Technology Co., Ltd
Add: Floor 1&2, Building A, 26 of Xinghe Road, Xinqiao Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China.
Web: www.ctb-lab.net Tel: 4008-707-283 Email: ctb@ctb-lab.net

CERTIFICATE ◆ 適合性証明書 ◆ CERTIFICATE



CERTIFICATE OF CONFORMITY

適合性証明書

- Electromagnetic Compatibility (EMC) -
No. : CTB220616020EX-ZS

申請者 : Shenzhen Hechuang Hitech Co., Ltd
住所 : #2406, Chuangtou Building, Longgang District, Shenzhen, P.R.China, 518172
製造者 : Shenzhen Hechuang Hitech Co., Ltd
住所 : #2406, Chuangtou Building, Longgang District, Shenzhen, P.R.China, 518172
製品 : Innest UVC Water Purifier
Product : Innest UVC Water Purifier
商号 : Innest
Trade Name : Innest
型番 : HC-JSH-001
Type: :
試験報告書番号: CTB220616020EX
測定基準 : J55014:H27

The tests that base on the above designated product Complies with the essential requirements of above mentioned standard.
上記の指定された製品に基づくテストは、上記の規格の基本的な要件に準拠しています。テストは通常の操作モードで行われました。テスト結果はテストされた特定のサンプルと実行された特定のテストにのみ適用されます。
この証明書は、当社のテスト参照番号でのみ調査されたサンプルに特に適用されます。以下に示すPSEマーキングは、必要な技術文書の作成後に製品に貼付することができます。

The tests were performed in normal operation mode, The test results apply only to the particular sample tested and to the specific tests carried out.
This certificate applies specifically to the sample investigated in our test reference number only. The PSE markings as shown below can be affixed on the product after preparation of necessary technical documentation.



Shenzhen CTB Testing Technology Co., Ltd
Add: Floor 1&2, Building A, No. 26 of Xinghe Road, Xinqiao Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China.
Web: <http://www.ctb-lab.net> Tel: 4008-707-283 Email: ctb@ctb-lab.net

Test Reports(Escherichia coli, Staphylococcus aureus, Pseudomonas aeruginosa & Salmonella typhimurium)



广东省微生物分析检测中心

GUANGDONG DETECTION CENTER OF MICROBIOLOGY
分析检测结果
 ANALYSIS AND TEST RESULT

报告编号 (Report No.): 2021SP04493R02

方法简述: 机器接入市政供水出水, 开机冲水 30 分钟后取出水检测。

序号 No.	检测项目 Test Item	检测结果 Test Result	标准要求 Standard Request (GB 5749-2006)	单位 Unit	检测方法 Test Method	单项判定 Individual Judgment
1	菌落总数	13	≤100	CFU/mL	GB/T 5750.12-2006/1	符合
2	总大肠菌群	未检出	不得检出	MPN/100mL	GB/T 5750.12-2006/2.1	符合
3	耐热大肠菌群	未检出	不得检出	MPN/100mL	GB/T 5750.12-2006/3.1	符合
4	大肠埃希氏菌	未检出	不得检出	MPN/100mL	GB/T 5750.12-2006/4.1	符合

试验菌株	试验流速	试验次数	试验组平均菌落数 (cfu/100mL)	对照组平均菌落数 (cfu/100mL)	杀菌率 (%)
铜绿假单胞菌 (<i>Pseudomonas aeruginosa</i>) ATCC 15442	1L/min	1	<1	4.7×10 ⁵	>99.999
		2	<1	4.5×10 ⁵	>99.999
		3	<1	4.5×10 ⁵	>99.999
鼠伤寒沙门氏菌 (<i>Salmonella typhimurium</i>) ATCC 14028	2L/min	1	18	3.8×10 ⁵	99.995
		2	25	4.4×10 ⁵	99.994
		3	16	4.2×10 ⁵	99.996

1.方法简述: 根据委托方要求, 制备含菌水以 1L/min 流速加入样品中, 通电运行样品后取水样用于测试。

2.测试结果:

试验菌株	试验组别	试验组平均菌落数 (cfu/100mL)	对照组平均菌落数 (cfu/100mL)	杀灭率 (%)
金黄色葡萄球菌 (<i>Staphylococcus aureus</i>) ATCC 6538	1	<1	8.1×10 ⁴	>99.99
	2	<1	5.8×10 ⁴	>99.99
	3	<1	1.1×10 ⁵	>99.99

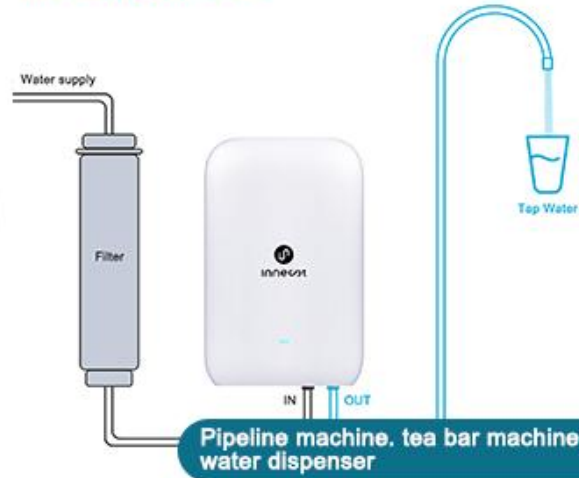
Applications



UVC Water Purifier

Remove 99.9999% Bacteria & Viruses.

Installation Diagram of
INNESSAT UVC Water Purifier



Pipeline machine, tea bar machine, water dispenser



INNESSAT UVC water purifier+ Water purifier
"Make domestic water cleaner and powerful"

Water source

Safe and secure

Domestic water and drinking water

UVC Water purifier rear



Drinking water in kitchen



Counter top / Under sink
Water Purification System

Kitchen water



Filter removes chemical, taste and odors, UVC Sterilizer removes bacteria and viruses.

Undersink drinking water

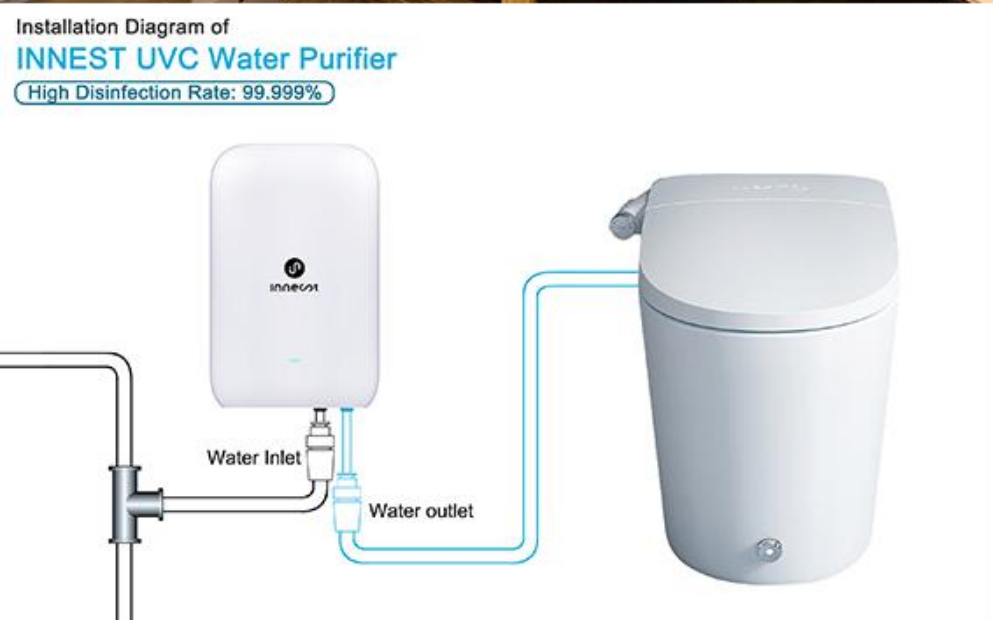
More Applications



Small Space RV & Boats UVC Water Purifier
Small size: 226*145*56mm

Enjoy ultra-pure water anywhere
Sterilization rate: 99.9999%

Installation Diagram of
INNEST UVC Water Purifier
High Disinfection Rate: 99.999%



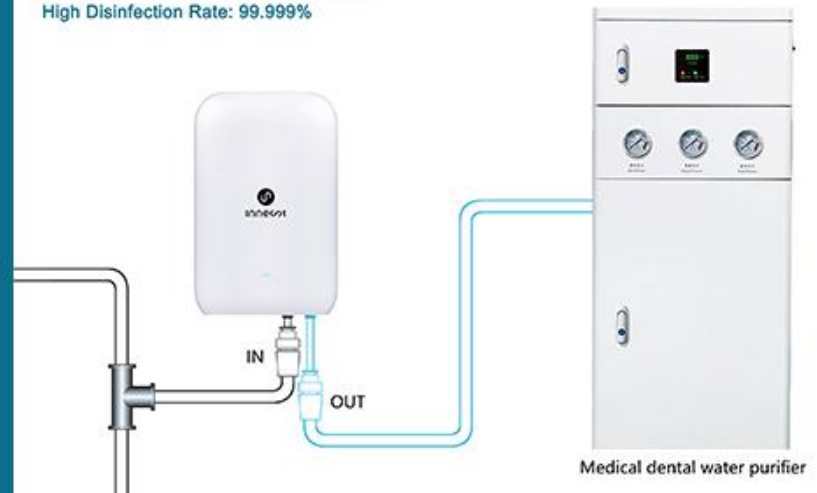
Water Inlet

Water outlet

Yachts, RV

Smart toilet

Installation Diagram of
INNEST UVC Water Purifier
High Disinfection Rate: 99.999%



- Pure Water •
- Live Better •
- High Disinfection Effect •

INNEST UVC Water Purifier
99.999% Disinfection Rate



Dental, oral

Tub