

PPM-DT5B

Product Datasheet

SPECIFICATIONS



UVC LED Pueple Planet Mods

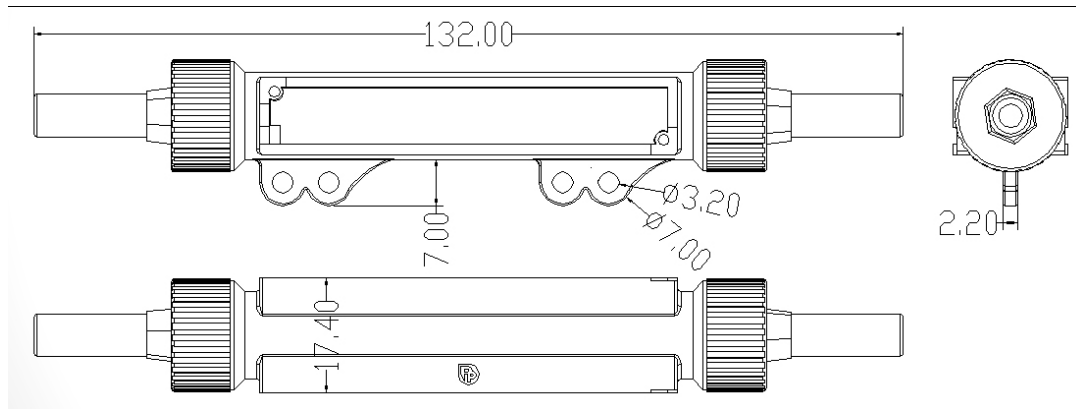
Product Features

- Advanced Deep UV LED Light Source Module
- Lead-Free and Mercury-Free, Eco-Friendly Solution
- Food-Grade Materials for Water-Contacting Parts
- Long Lifetime of Over 6,000 Hours
- IP65 Waterproof and Dustproof Protection

1 Key Parameters

Item	Min	Typ	Max	Unit
Electrical Parameters				
Input Voltage	11V	12V	13V	V
Input Power	3.2	3.5	3.8	W
Electrical Interface	2pin Socket XHP-2.54			
LED Lifetime	6000-8000			hour
Mechanical Parameters				
Dimensions	17.4x132(Including Inlet and Outlet Ports)mm			
Material	JGSL-2 Grade Quartz + Food-Grade ABS+PC			
Water Ports	2/3" Standard Quick Connector			
Dielectric Strength	AC1000V Human Body Mode			
Rated Pressure	0.3	0.5	---	Mpa
Flow Rate	2	---	2.5	L /min
Lifetime	---	≥3000	---	hour
Storage Temp	−40	---	80	℃
Operating Temp	−5	---	65	℃

2 Structural diagram



3 Product Image



Notes :

1. All dimensions are in millimeters (mm)
2. Inlet and outlet directions are unrestricted.
3. The module must be placed vertically during use.

4 Safety Instructions

- This product is ESD sensitive. Proper ESD protection must be applied during installation and use. Ensure the workbench is grounded. Reseal the packaging bag immediately after opening.
- Gloves or finger cots are recommended when handling this product.
- Operate the product only within the specified voltage and current ranges. Exceeding these limits may cause permanent damage.
- Install and operate this product away from heat sources and in a suitable ambient environment.
- Before installation, ensure a stable mounting environment. Avoid excessive vibration, shock, and mechanical pressure.

Different microorganisms require specific UV doses for effective inactivation. Our UV sterilization products are designed according to national standards and can achieve up to 99.99% inactivation of bacteria and viruses in water. Water quality conditions such as high turbidity, hardness, and elevated calcium or magnesium levels may reduce sterilization efficiency. A filtration system is recommended before the product inlet to improve sterilization performance.

UV radiation may cause harm to the human body. For safety considerations, all components are enclosed within a sealed housing. Unauthorized disassembly of the product is strictly prohibited.

5 Referenced Standards

- GB/T 191 — Packaging — Pictorial Markings for Handling of Goods (GB/T 191-2008, ISO 780:1997, MOD)
- GB/T 1019 — General Requirements for the Packaging of Household and Similar Electrical Appliance
- GB/T 2423.17 — Environmental Testing for Electric and Electronic Products — Part 2: Test Methods — Salt Mist Test
- GB/T 4706.1 — Safety of Household and Similar Electrical Appliances — Part 1: General Requirements
- GB 5749 — Hygienic Standard for Drinking Water
- QB/T 4827 — Ultraviolet Sterilization Units for Household and Similar Drinking Water Treatment Devices
- GB/T 2828.1 — Sampling Procedures for Inspection by Attributes — Part 1: Sampling Schemes Indexed by Acceptance Quality Limit (AQL) for Lot-by-Lot Inspection

6 1.2L Sterilization Report

		Guangwei Test Gmircro Testing		 201919000893				 CNAS		 Testing TESTING CNAS L178	
Guangdong Provincial Microbiology Analysis and Testing Center GUANGDONG DETECTION CENTER OF MICROBIOLOGY											
Analysis and Testing Report REPORT FOR ANALYSIS											
Report Number				2024SP07016R01							
Report No.											
Sample Name				Direct-Through UVC Sterilization Module							
Name of Sample											
Client				Shenzhen Huail Technology Co., Ltd.							
Applicant											
Test Type											
Test Type											
Unit Address: Building 66, No. 100 Central Xian Lie Road, Guangzhou, China Address: Building 66, No. 100 Central Xian Lie Road, Guangzhou, China Postal Code: 510070 Postcode: Phone number: (020)87137666 Tel: Fax number: (020)87137668 Fax: Web: www.gddcm.com Website:											



Guangwei Testing
Gmicro Testing

**Guangdong Provincial Microbiology
Analysis and Testing Center**

GUANGDONG PROVINCE MICROBIOLOGY ANALYSIS AND TESTING CENTER

Analysis and Testing Report



REPORT FOR ANALYSIS

Verification Code: PM304HYV

Report Number (Report No.):
20245P7016R01

Sample Name Name of Sample	Direct-Flow UVC Sterilization Module	Test Type Test Type	Commissioned Testing
Commissioning Party Applicant	Shenzhen Huxia Technology Co., Ltd.	Address Address	Nanchang Community, Xiangxi Subdistrict, Dayao District, Shenzhen Building B, Rooms B11-B12, Qianwan Heli Tech Industrial Park
Sample Source Sample Source	Submitted by the Client	Sample Quantity Sample Quantity	1 Unit
Sample Specimen Number and Batch Number Spec and Lot No of	PPM-DT2L	Sample Condition and Characteristics State and Characteristic	Method
Receipt Date Sample Received Date	2024-06-13	Inspection Completion Date Completion Date	2024-06-27
Test Item Item Tested	Disinfection Effect Assessment of Drinking Water		
Testing Basis and Method Test Standard and Method	Disinfection Technical Specifications (Military of Health 2002 Edition) Part Two (2.1-4.5)		
Test Conclusion Test Conclusion	The actual test data of the items tested in the submitted samples can be found in the continuation of this report.		
Remarks Remarks	Issue Date: 2024/06/27 Issue Date: (Official Seal) Sphical Inspection Seal		

Table prepared by: **陈琛琦**

Editor

Reviewed by: **Chen Wei**

Verifier

Approved by: **张**

Approver

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Gmicro Testing
Gmicro Testing

Guangdong Provincial Center for Microbiological Analysis and Testing

GUANGDONG DETECTION CENTER OF MICROBIOLOGY
Analysis and Test Result
ANALYSIS AND TEST RESULT

Report Number (Report No.): Z024SP07016R01

Disinfection Effectiveness Assessment for Drinking Water

1. Testing Method: Part 21 (2.3.4.4.1) of the 'Disinfection Technical Specifications' (Ministry of Health, 2002 edition)

2. Detection Summary: According to the detection requirements, bacterial indicator strains were prepared and passed through the sample device tested for 100 pieces (single use) after control of 5 colonies per sample with theoretical 100% for testing.

3. Test Results:

Test Strain	Experiment Number (cfu/100mL)	Average Colony Count in Experimental Group (cfu/100mL)	Average Colony Count in Control Group (cfu/100mL)	Sterilization Rate (%)
<i>Escherichia coli</i> (<i>Escherichia coli</i>) 8099	1	7	6.1×10^4	99.99
	2	8	7.4×10^4	99.99
	3	5	5.3×10^4	99.99

Sample Photo:

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Guangwei Test Cmicro Testing	
Report Number: 2024SP07016R01	
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