

PPM-DT5A

Product Datasheet SPECIFICATIONS



UVC LED Pueple Planet Mods



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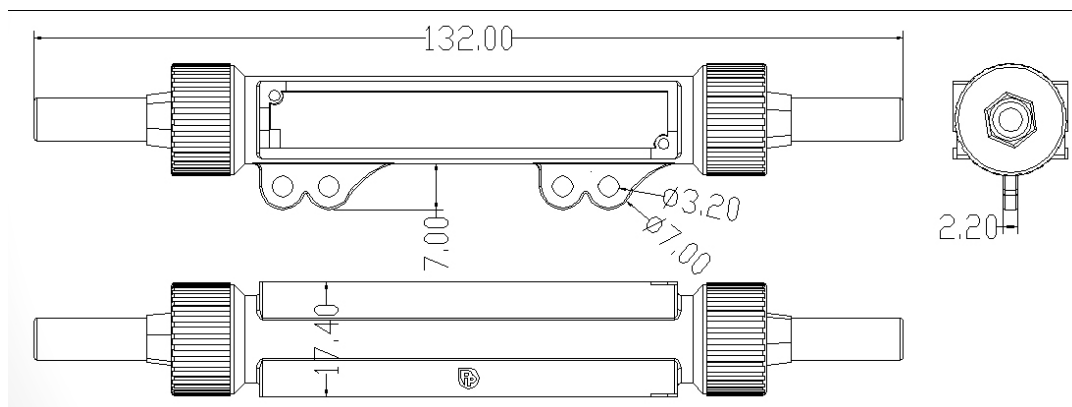
Product Features

- 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

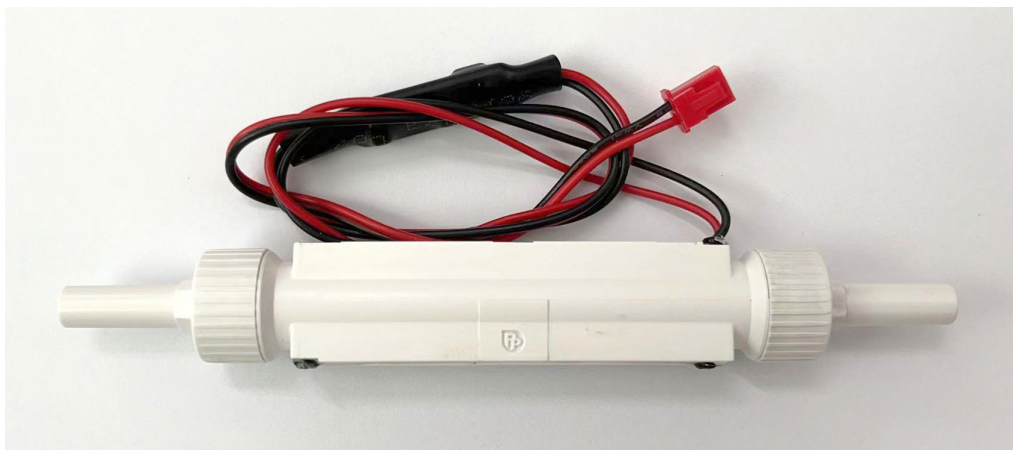
1 Key Parameters

Item	Min	Typ	Max	Unit
Electrical Parameters				
Input Voltage	11V	12V	13V	V
Input Power	1.6	1.8	1.9	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	0.8	---	1	L /min
Lifetime	---	≥5000	---	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



Gmicro Testing

Gmicro Testing

Guangdong Microbiology Analysis
and Testing Center

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

Analysis and Test Results

ANALYSIS AND TEST RESULT

Report No. (ReportNo.): 2024SP08297R02

Disinfection Effect Assessment
of Drinking Water

1. Testing Method: "Disinfection Technical Specifications" (Ministry of Health 2002 Edition) Part
Two (2.1.4.1)
2. Method Summary: According to the client's requirements, prepare a bacterial water sample using pure water at a flow rate of
1.5L/min into the powered sample, and take water samples for testing.
3. Test Results:

Test Strain	Exper iment Number of times	Average Colony Count of Experimental Group (cfu/100mL)	Average Colony Count of Control Group (cfu/100mL)	Sterilization Rate (%)
E. coli (Escherichia coli) 8099	1	1.0×10 ²	2.7×10 ⁵	99.96
	2	42	1.3×10 ⁵	99.97
	3	33	1.1×10 ⁵	99.97

Sample photo:



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below)

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