

(单位:mm)

OMRON

Model

ZUV-HN□0MD

ZUV-HN□5MD

Smart Curing System Head Unit

INSTRUCTION SHEET

Thank you for selecting OMRON product. This sheet primarily describes precautions required in installing and operating the product.

Before operating the product, read the sheet thoroughly to acquire sufficient knowledge of the product. For your convenience, keep the sheet at your disposal.

TRACEABILITY INFORMATION:

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Manufacturer
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NOTICE:

The following notice applies only to products that carry the CE mark:
Notice:
This is a class A product. In residential areas it may cause radio interference, in which case the user may be required to take adequate measures to reduce interference.

Dispose in accordance with applicable regulations.

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PRECAUTIONS ON SAFETY

● Meaning of Alert Symbols

⚠ WARNING

Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury, or may result in serious injury or death. Additionally there may be significant property damage.

⚠ CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage.

● Alert statements

⚠ WARNING

Direct exposure of eye or skin to ultraviolet light will damage eyesight or the skin. Never look into or expose the body to the ultraviolet light. Work wearing protection glasses and protection equipment if exposure to the reflected ultraviolet light is considered.

⚡

Electric shock or leaked light may cause injury or damage to the product. Never disassemble the product.

⚠ CAUTION

Touching the product may result in burns. Do not touch the product while energized or immediately after turning OFF the power supply.

PRECAUTIONS FOR SAFE USE

Observe the following precautions to ensure safe operation.

- Do not use the product in atmospheres containing flammable or explosive gases.
- Do not try to disassemble, repair, or modify this product.
- Dispose of this product as industrial waste.
- Do not touch the head lens for a long time during ultraviolet light irradiation. Doing so may result in burns.
- Do a special medical check-up, based on "Notice No.308" of Ministry of Health, Labour and Welfare, for workers handling this product.
- Be sure to use the attached mounting bracket to fix the head part. Use the bracket within the specified mounting range. Misuse of the mounting bracket may raise the head temperature, causing burns.
- A long time exposure of the UV light will give a thermal damage to a target.
- Applicable standards
 - EN61326-1
 - Electromagnetic environment : Industrial electromagnetic environment (EN/IEC 61326-1 Table 2)

PRECAUTIONS FOR CORRECT USE

- Avoid installing the product in the following places:
 - Places exposed to strong electromagnetic fields
 - Places where the lens in front of the head may be exposed to dust, oil, or dew condensation.
 - Places subject to corrosive gases
 - Places where the product is exposed to direct shock or vibration.
- Wiring
 - Keep the cable between the head and the controller away from high-voltage cables or power lines. If laid in the same duct, induction noise from them may cause malfunction or breakdown of the product.
 - Use only combinations of the head and controller, connector specified in this manual.
 - Be sure to turn OFF the power supply when mounting or demounting the head part.
 - An extension cable can be used between head and the controller. Do not use extended multiple cables.
- Cleaning
 - Avoid the use of thinner, benzine, acetone, and kerosene. Use of these solvents will melt the surface of the product.
 - Use commercially available alcohol.
 - Wipe out small dirt or dust carefully not to damage the lens using a soft cloth (such as a lens cleaner.) containing a small quantity of alcohol.
- Resin cure
 - State of resin cure changes depending on various factors. Continuously check the state of resin cure to set at the best condition.
- Mounting of the head
 - Make sure to use attached mounting bracket for the head part. Use the bracket within the specified mounting range. Misuse of the mounting bracket may raise the temperature rise of the head and shorten the usage life of LED.
- Combinations of the head and controller, extnsion cable
 - When using, connect with the following combinations. If different combinations, the head connection will not be recognized and can not irradiate UV light.

Controller : ZUV-C40H(-D)
Head Unit : ZUV-HN□□
Extension Cable : ZUV-XCN□□

Dimensions

ZUV-HN20MD

ZUV-HN25MD

ZUV-HN10MD (0.3m, 2m)

ZUV-HN30MD (0.3m, 2m)

ZUV-HN35MD

Size: A

Specification	A
0.3m	300
2m	2000

• Mounting bracket

• Mounted

ZUV-HN20MD/ZUV-HN25MD

ZUV-HN10MD

ZUV-HN30MD/ZUV-HN35MD

(UNIT:mm)

■Ratings and performance

Item	Model	ZUV-HN20MD	ZUV-HN25MD	ZUV-HN10MD		ZUV-HN30MD		ZUV-HN35MD
length		2m		2m	0.3m	2m	0.3m	0.3m
Light source wavelength		365nm						
Applicable Controller		ZUV-C40H(-D)						
Applicable Extension Cable		ZUV-XCN□□						
Vibration resistance		10 to 150 Hz, Acceleration: 50 m/s ² , Single amplitude: 0.35 mm in X, Y, and Z directions, 10 sweeps each (8 min/sweep)						
Shock resistance		150 m/s ² in 6 directions (+/-X, +/-Y, and +/-Z directions), 3 times each						
Ambient temperature		Operating: 5 to 35°C, Storage: -10 to 60°C(with no condensation or icing)						
Ambient humidity		Operating/storage: 30% to 85% (with no condensation or icing)						
Degree of protection		IEC 60529 IP40						
Materials		Aluminum, glass, zinc		Aluminum, glass, zinc, copper				
Weight(in packing)		Approx. 185g (main unit:approx. 100g)		Approx. 235g (main unit:approx. 160g)	Approx. 180g (main unit:approx. 105g)	Approx. 185g (main unit:approx. 100g)	Approx. 150g (main unit:approx. 55g)	
Accessories		Instruction sheet (this sheet), mounting brackets (with M3 screws), warning labels (in English)						

Safety measures on LED

■Precautions for handling

- If a mirror-surface object stands in the light path, install a light shielding cover to the object. When using the product without termination, avoid to set the light at the eye level.
- Although the safety distance, Nominal Ocular Hazard Distance (NOHD) is 1 m, terminate the light path where possible. Termination material with less reflective and lusterless painted surface is the best choice.
- When not using the product, turn OFF the product key and remove it.
- When installing or adjusting the head part, wear protection glasses.

Note: Tightening torque is as follows:
M3 fixation screw: 0.9 Nm・min.
M4 fixation screw: 1.2 N・m

Suitability for Use

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

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