

## Product Discontinuation Notices

UV-Light Curing Systems

April 1, 2010

No. 2010119E

### Discontinuation Notice of UV-Light Curing Systems : ZUV-C10 series

#### Product Discontinuation

#### Recommended Replacement



Controller

**Model ZUV-C10**

Controller

**Model ZUV-C30H**

Head unit

**Model ZUV-H10**

**Model ZUV-H20**

Head unit

**Model ZUV-H10M**

**Model ZUV-H30M**

Lens unit

**Model ZUV-L4**

**Model ZUV-L6**

**Model ZUV-L8**

Lens unit

**Model ZUV-L4H**

**Model ZUV-L6H**

**Model ZUV-L8H**

Extension cable

**Model ZUV-XC2A**

Extension cable

**Model ZUV-XC2B**

**Discontinuation date : The end of June, 2010**

#### **Caution on recommended replacement**

- It is not compatible between model ZUV-C10 series and model ZUV-C30H series, and switch the controller, the head unit, the lens unit and extension cable by the set, please.
- The controller's I/O terminal pin assignments and the input specifications are different, and get use after confirming the specification, please.

### Difference from discontinued product

Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
ZUV-C30H	*	--	--	--	--	--	--
ZUV-H□□M	*	--	--	--	--	--	--
ZUV-L□□H	**	--	-	-	--	--	-
ZUV-XC2B	**	--	--	--	-	-	--

\*\* : Fully compatible

\* : The change is a little/Almost compatible







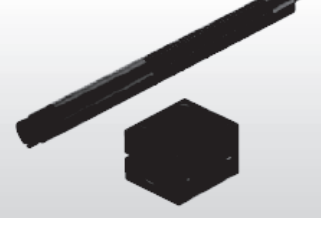
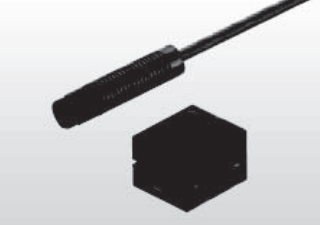


-- : Not compatible

- : No corresponding specification

### Product Discontinuation and recommended replacement

	Product discontinuation	Recommended replacement
Controller	Model ZUV-C10	Model ZUV-C30H
Head unit	Model ZUV-H10	Model ZUV-H10M
	Model ZUV-H20	Model ZUV-H30M
Lens unit	Model ZUV-L4	Model ZUV-L4H
	Model ZUV-L6	Model ZUV-L6H
	Model ZUV-L8	Model ZUV-L8H
Extension cable	Model ZUV-XC2A	Model ZUV-XC2B

**Body color**

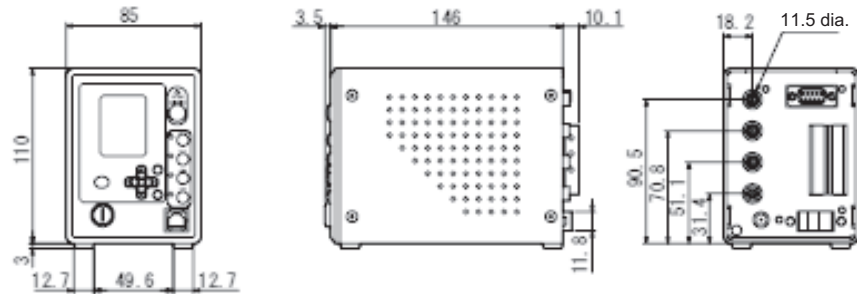
Product discontinuation	Recommendable replacement
<p data-bbox="188 353 446 421"><b>Controller</b> Model ZUV-C10</p>  <p data-bbox="188 689 446 757"><b>Head unit</b> Model ZUV-H10</p>  <p data-bbox="245 1025 446 1048">Model ZUV-H20</p>  <p data-bbox="188 1326 510 1393"><b>Lens unit</b> Model ZUV-L4/L6/L8</p>  <p data-bbox="188 1662 469 1729"><b>Extension cable</b> Model ZUV-XC2A</p> 	<p data-bbox="911 353 1185 421"><b>Controller</b> Model ZUV-C30H</p>  <p data-bbox="911 676 1192 743"><b>Head unit</b> Model ZUV-H10M</p>  <p data-bbox="968 1012 1192 1034">Model ZUV-H30M</p>  <p data-bbox="911 1339 1297 1406"><b>Lens unit</b> Model ZUV-L4H/L6H/L8H</p>  <p data-bbox="911 1675 1192 1742"><b>Extension cable</b> Model ZUV-XC2B</p> 

## Dimensions

### Product discontinuation

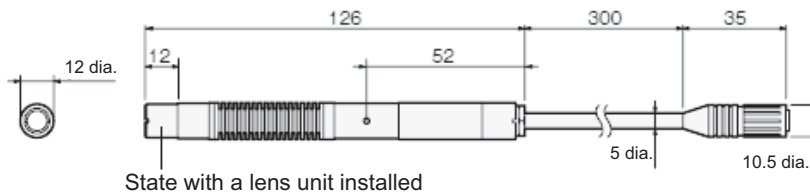
#### Controller

Model ZUV-C10

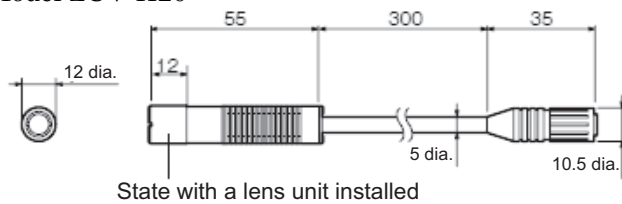


#### Head unit

Model ZUV-H10

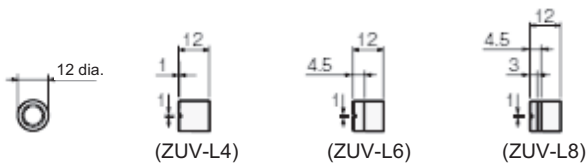


Model ZUV-H20



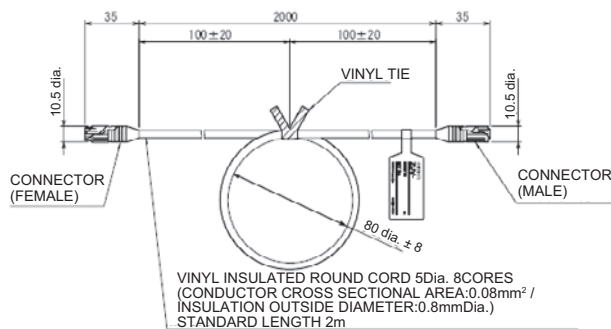
#### Lens unit

Model ZUV-L4/L6/L8



#### Extension cable

Model ZUV-XC2A

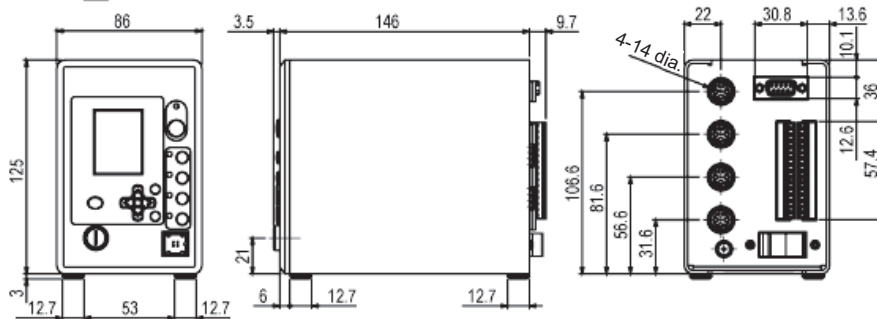


## Dimensions

### Recommendable replacement

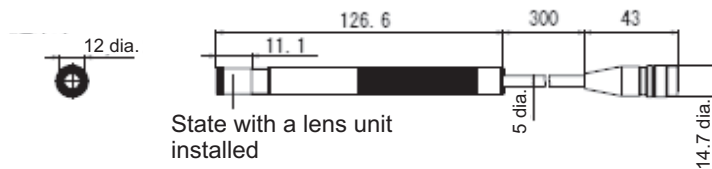
#### Controller

Model ZUV-C30H

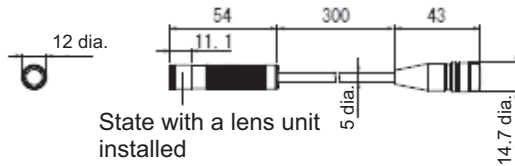


#### Head unit

Model ZUV-H10M

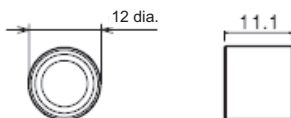


Model ZUV-H30M



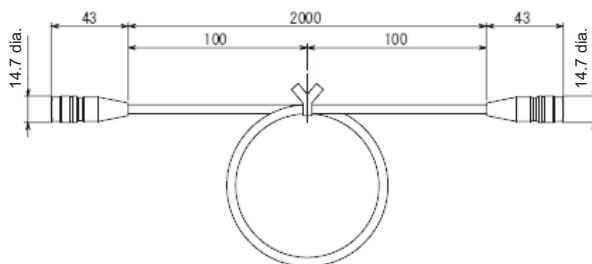
#### Lens unit

Model ZUV-L4H/L6H/L8H



#### Extension cable

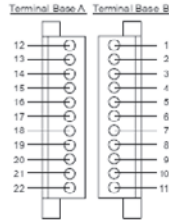
Model ZUV-XC2B



# Wire Connection

## Product discontinuation

### I/O terminal pin assignments



With respect to the electric wire used for the terminal base, care shall be taken for the items below:

- \* The size of a recommended crimp section is described below:
  - Numbers 11, 21, and 22: 1.00 to 1.50mm<sup>2</sup>
  - Other than above: 0.10 to 1.50mm<sup>2</sup>
- \* The stripped cable length is approximately 7 mm.

#### \*Terminal Base A

Display Details	I/O	Signal Name	Display Details	I/O	Signal Name
12	COMIN	- Input COM	18	BANK1	Input Bank switching input 1
13	TRG1	Input UV irradiation start/end input CH1	19	BANK2	Input Bank switching input 2
14	TRG2	Input UV irradiation start/end input CH2	20	BANK3	Input Bank switching input 3
15	TRG3	Input UV irradiation start/end input CH3	21	+24V	Input +24V power supply input
16	TRG4	Input UV irradiation start/end input CH4	22	GND	Input 24V input GND
17	BANK0	Input Bank switching input 0			

#### -Terminal Base B

Display Details	I/O	Signal Name	Display Details	I/O	Signal Name
1	0 to 5V	- 0 to 5V analog input	7	RDY4	Output Ready output CH4
2	AG	- Analog input GND	8	UVON	Output Output during the UV irradiation
3	EMGCV	Input Input of emergency stop	9	ERROR	Output Error output
4	RDY1	Output Ready output CH1	10	COM/UVI	- Output COM
5	RDY2	Output Ready output CH2	11	FG	- Frame GND
6	RDY3	Output Ready output CH3			

### Input specifications

Input voltage	DC 12 to 24V ±10%
Input current	6 mA typ (DC12V)/13 mA typ (DC24V)
ON current <sup>*1</sup>	Minimum 5mA
ON voltage <sup>*2</sup>	Minimum 6.6V
OFF current <sup>*1</sup>	Maximum 2mA
OFF voltage <sup>*2</sup>	Maximum 4.5V
Internal circuit diagram	

- \*1: This refers to the current value or voltage value, which is turned from OFF to ON. The ON voltage value is the potential difference between COM IN and the respective input terminal.
- \*2: This refers to the current value or voltage value, which is turned from ON to OFF. The OFF voltage value is a potential difference between COM IN and the respective input terminal.

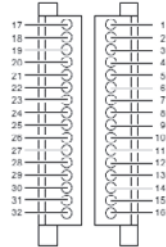
### Output specifications

Fully compatible

### RS-232C connector pin assignments

Fully compatible

## Recommendable replacement



Pay attention to the following points regarding the electric wire used for the terminal block:

Check:
 

- \* The size of the recommended crimp section is as follows:
  - Numbers 16, 31, and 32: 1.00 to 1.50 mm<sup>2</sup>
  - Other than the above: 0.10 to 1.50 mm<sup>2</sup>
- \* The stripped cable length is approximately 7 mm.

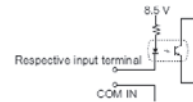
#### -Terminal block A

Indication	I/O	Signal Name	Indication	I/O	Signal Name
17	RDY1	Output Ready output CH1	25	UVON	Output Output during UV irradiation
18	RDY2	Output Ready output CH2	26	ERROR	Output Error output
19	RDY3	Output Ready output CH3	27	COMOUT	Output Output COM
20	RDY4	Output Ready output CH4	28	NC	— No connection
21	TRGOUT1	Output Unused	29	NC	— No connection
22	TRGOUT2	Output Unused	30	NC	— No connection
23	TRGOUT3	Output Unused	31	+24V	— +24V power supply input
24	TRGOUT4	Output Unused	32	GND	— 24V input GND

#### -Terminal block B

Indication	I/O	Signal Name	Indication	I/O	Signal Name
1	AIN1	Input 0 to 5V analog input 1	9	TRG4	Input UV irradiation start/stop input CH4
2	AIN2	Input Unused	10	BANK0	Input Bank switching input 0
3	AIN3	Input Unused	11	BANK1	Input Bank switching input 1
4	AIN4	Input Unused	12	BANK2	Input Bank switching input 2
5	AG	— Analog input GND	13	BANK3	Input Bank switching input 3
6	TRG1	Input UV irradiation start/stop input CH1	14	EMGCV	Input Input of emergency stop
7	TRG2	Input UV irradiation start/stop input CH2	15	COMIN	— 0V (input COM)
8	TRG3	Input UV irradiation start/stop input CH3	16	FG	— Frame GND

#### Internal circuit diagram



**Mounting dimensions**

**Product discontinuation**

**Mounting bracked**

**Mounting**

Model ZUV-H10

Model ZUV-H20

**Recommendable replacement**

Model ZUV-H10M

Model ZUV-H30M

## Characteristics

### Controller

		Product discontinuation	Recommendable replacement
Controller models		ZUV-C10	ZUV-C30H
Irradiation method	Constant irradiation	Irradiation power (0 to 100%), Irradiation time (max.999.9 seconds)	Irradiation power (0 to 100%), Irradiation time (max.999.9 seconds / unlimited)
	Patten irradiation	Can be set to step or ramp (linear) (16 points specified per setting)	Can be set to step or ramp (linear) (16 points specified per setting)
Number of settings		16banks	16banks
Terminal block I/O	Inputs	Emergency stop, Start/stop UV irradiation (4 channels), Select settings (banks)	Emergency stop, Start/stop UV irradiation (4 channels), Select settings (banks)
	Outputs	Ready (4 channels), UV irradiating, errors	Ready (4 channels), UV irradiating, errors
RS-232C and USB	Inputs	Start/stop UV irradiation (4 channels), select settings (banks), get/change setting data, save/read data, execute power tuning	Start/stop UV irradiation (4 channels), select settings (banks), get/change setting data, save/read data, execute power tuning, get cumulative irradiation energy
	Outputs		
Cooling method		Fanless air cooling	Fan air cooling
Power supply voltage		Select AC or DC power supply. - AC power supply: 100 to 240 VAC±10%, 50/60 Hz (AC adapter supplied) - DC power supply: 24 VDC±10% (supplied from the terminal block on rear of unit)	Select AC or DC power supply. - AC power supply: 100 to 240 VAC±10%, 50/60 Hz (AC adapter supplied) - DC power supply: 24 VDC±10% (supplied from the terminal block on rear of unit)
Current consumption		- With AC adapter: 3.7A - With DC power supply: 3.0A	- With AC adapter: 2.3A (55VA) - With DC power supply: 1.9A (45VA)
Compatible specifications		EN61326, EN61010-1 JIS C 6802 2005	EN61326, EN61010-1
Vibration resistance		10 to 150 Hz acceleration:15m/s <sup>2</sup> single amplitude:0.1mm each of the X, Y and Z directions for 8 minutes, 10 times	10 to 150 Hz acceleration:50m/s <sup>2</sup> single amplitude:0.35mm each of the X, Y and Z directions for 8 minutes, 10 times
Drop impact resistance		150m/s <sup>2</sup> each in 6 directions (up/down, left/right, forward/backward), for 3	150m/s <sup>2</sup> each in 6 directions (up/down, left/right, forward/backward), for 3
Ambient temperature range		Operating: 5 to 35°C; Storage: -10 to 60°C (with no condensation or icing)	Operating: 5 to 35°C; Storage: -10 to 60°C (with no condensation or icing)
Ambient humidity range		Operating/storage: 30% to 85% (with no condensation)	Operating/storage: 30% to 85% (with no condensation)
Degree of protection		IEC60529 IP20	IEC60529 IP20
Materials		SUS	SECC, aluminum
Weight (packed state)		Approx.2300g (main unit: approx.1400g)	Approx.2950g (main unit: approx.1900g)
Accessories		Instruction Sheet, key , AC adapter, Quick Setting Guide, CD-ROM (including the USB driver and User's Manual PDF edition)	Instruction Sheet, key , AC adapter, Quick Setting Guide, CD-ROM (including the USB driver and User's Manual PDF edition)



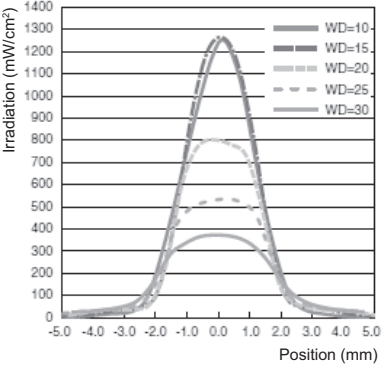
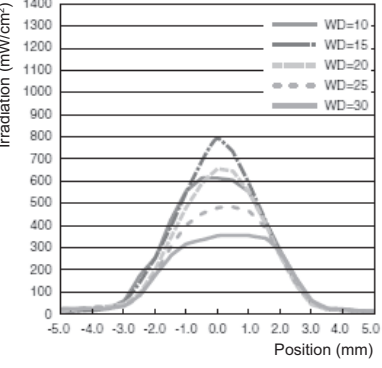
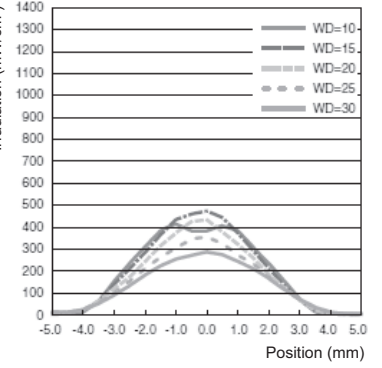
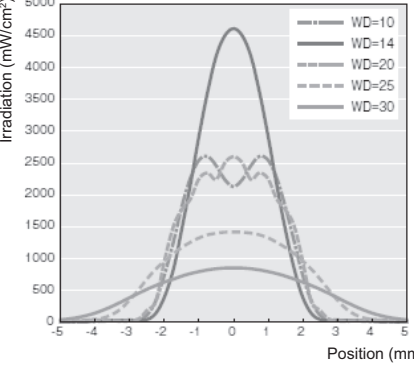
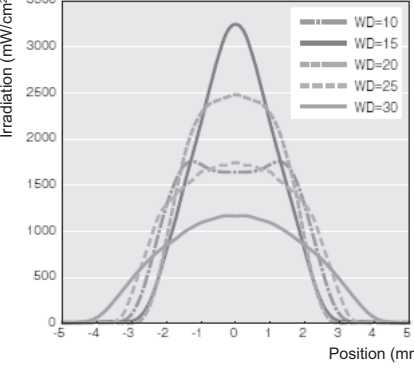
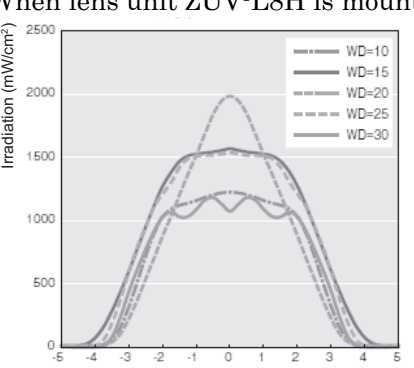
## Characteristics

### Head unit

		Product discontinuation			Recommendable replacement		
Head unit models		ZUV-H10/H20			ZUV-H10M/H30M		
Lens unit models		ZUV-L4	ZUV-L6	ZUV-L8	ZUV-L4H	ZUV-L6H	ZUV-L8H
Spot diameter		4mm dia.	6mm dia.	8mm dia.	4mm dia.	6mm dia.	8mm dia.
Recommended distance to workpiece		15mm	15mm	15mm	14mm	15mm	15mm
Light source	Wavelength	365nm			365nm		
	Peak illumination (*1)	1200mW/cm <sup>2</sup>	700mW/cm <sup>2</sup>	400mW/cm <sup>2</sup>	4600mW/cm <sup>2</sup>	3200mW/cm <sup>2</sup>	1600mW/cm <sup>2</sup>
	Class	Class 3B (JIS C 6802 2005) Class 3B (EN60825-1/IEC60825-1)			Class 3B (JIS C 6802 2005) Class 3B (EN60825-1:1994 +A1:2002+A2:2001)		
Vibration resistance		10 to 150 Hz acceleration:50m/s <sup>2</sup> single amplitude:0.35mm each of the X, Y and Z directions for 8 minutes, 10 times			10 to 150 Hz acceleration:50m/s <sup>2</sup> single amplitude:0.35mm each of the X, Y and Z directions for 8 minutes, 10 times		
Drop impact resistance		150m/s <sup>2</sup> each in 6 directions (up/down, left/right, forward/backward), for 3			150m/s <sup>2</sup> each in 6 directions (up/down, left/right, forward/backward), for 3		
Ambient temperature range		Operating: 5 to 35°C; Storage: -10 to 60°C (with no condensation or icing)			Operating: 5 to 35°C; Storage: -10 to 60°C (with no condensation or icing)		
Ambient humidity range		Operating/storage: 30% to 85% (with no condensation)			Operating/storage: 30% to 85% (with no condensation)		
Degree of protection		IEC60529 IP40			IEC60529 IP40		
Materials		ZUV-H10: aluminum, glass ZUV-H20: aluminum, bronze, glass ZUV-L4/L6/L8: aluminum, glass			ZUV-H10M/H30M: bronze, aluminum, glass ZUV-L4H/L6H/L8H: aluminum, glass		
Weight (packed state)		ZUV-H10: approx.120g (main unit: approx.50g) ZUV-H20: approx.110g (main unit: approx.40g) ZUV-L4/L6/L8: approx.10g (main unit: approx.5g)			ZUV-H10M: approx.180g (main unit: approx.105g) ZUV-H30M: approx.150g (main unit: approx.55g) ZUV-L4H/L6H/L8H: approx.10g (main unit: approx.5g)		
Accessories		ZUV-H10/H20: Instruction sheet, Mounting bracked (with M3 screws), Warning labels (in English) ZUV-L4/L6/L8: Instruction sheet			ZUV-H10M/H30M: Instruction sheet, Mounting bracked (with M3 screws), Warning labels (in English) ZUV-L4H/L6H/L8H: Instruction sheet		

(\*1) With irradiation power at 100%, room temperature at 25°C, and the radiator jig mounted. These are not guaranteed figures.

## Operation ratings

Product discontinuation	Recommendable replacement
<p>Head unit: ZUV-H10/H20 (irradiation with power 100%)</p> <p>When lens unit ZUV-L4 is mounted:</p>  <p>When lens unit ZUV-L6 is mounted:</p>  <p>When lens unit ZUV-L8 is mounted:</p> 	<p>Head unit: ZUV-H10M/H30M (irradiation with power 100%)</p> <p>When lens unit ZUV-L4H is mounted:</p>  <p>When lens unit ZUV-L6H is mounted:</p>  <p>When lens unit ZUV-L8H is mounted:</p> 

## Operation methods

The operation method is different.

Please refer to the catalog and the manual for the details.