

NEW

High Power Ultraviolet Ring Illumination [IDHRA Series]

Fluorescent excitation ring illumination equipped with new high-power UV-LEDs
Lineup includes Long type and Short type with selectable irradiation distances

Power LEDs

- Applications**
- Textile Industry, etc.
 - ➔ Inspection of dirt/scorch, etc.
 - Packaging industry etc.
 - ➔ Excitation of fluorescent substances in adhesives and glues



Standard Size Lineup Standard release in total of 20 variations, including including 2 sizes in $\phi 65\text{mm}$ and $\phi 100\text{mm}$, 2 types of illumination (narrow-angle and wide-angle), and 5 different wavelengths for illumination.

Wide Range of Illumination Wavelengths to Cater to Various Needs.

Standard UV-LED illumination wavelengths include 365nm and 385nm.
Additionally, customization options for producing illumination wavelengths of 375nm, 395nm, and 405nm upon request.

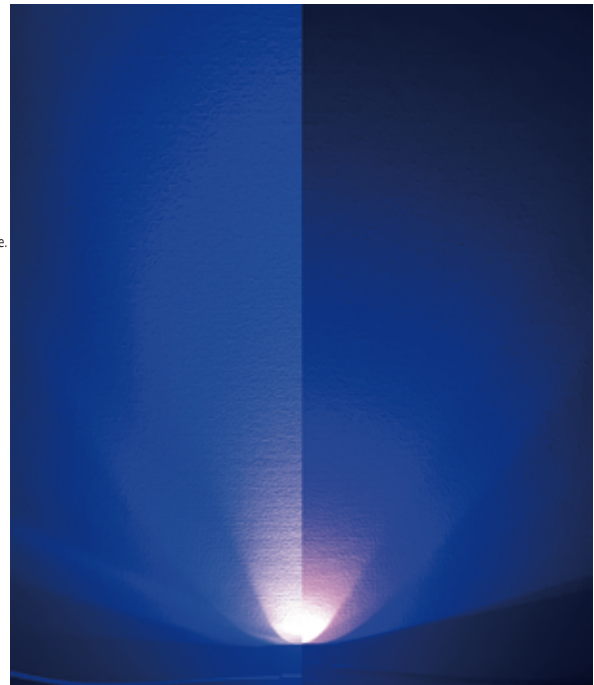
! Please note the following precautions when using UV illumination:

- Do not look directly at the light source or any specular reflections.
 - Wear protective goggles when using UV light sources.
 - Avoid directing the emission towards the eyes when powering on the device to prevent accidental exposure.
 - Wear long-sleeved clothing and gloves to prevent direct contact between the skin and the UV illumination.
- It is important to prioritize safety and take necessary precautions to minimize any potential risks associated with UV light exposure.

Protective Plates and Diffuser Plates Could Be Attached

As an optional feature, you can attach protective and diffusion plates that are compatible with ultraviolet light.
Protective plate with 100% light transmittance and diffusion plate with 85% light transmittance are available
Simply insert the plates into the designated slots and secure them in place using the provided screws.
This allows for convenient attachment even after the initial installation.

Radiation Image



<IDHRA-65L-UV-405>

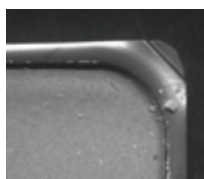
<IDHRA-65S-UV-405>

- Line illumination products
 - Ring illumination products
 - Bar illumination products
 - Transmitted/area illumination products
 - Dome illumination products
 - Special illumination products
 - Kit products
 - Controller products
 - Other illumination products
- IDBB-LSRF
 - IDBC-LSR
 - IDBB-LSRH
 - IDBB-LSRA
 - IDBB-LSRS
 - IDBC-LSRC
 - IDBB-LSRC
 - IDBC-RE
 - IDBB-RE
 - IDBA-RK
 - IQDH-RE
 - IMAR-D_8ch
 - IDR-LA-8ch
 - IDRA-T-8ch
 - IMAR-D
 - IMAR-CT D
 - IHR-LE
 - IHRB · IHRA
 - IDR-F
 - IDR-F33/16
 - IDR
 - IDR-LA
 - IDRA-T
 - IFR · IPR
 - IDBA-HM
 - IDBA-HMS
 - IDBA-HMS-IR
 - IDBA-FD
 - IDBA-LEH2
 - IDBA-LEH
 - IDBA-LE
 - IDBA-SE
 - IDBA-SL
 - IDBA
 - IDBA-Q
 - IFLA · IFLB
 - IDHM
 - IHMA
 - IHMA-V
 - IFPA
 - IFD
 - IFD-IR
 - IHMA-40D
 - IFPA-D
 - IPOC
 - IFHA
 - IDDB-KH · IDDA-KH
 - IDUB
 - IDD
 - IDD-CB
 - IQD · IQDH
 - IQDA-CB
 - IFVA · IFVB
 - IFVA-ST
 - IFV
 - IV-14 · IV-30
 - IHV-20 · IHVE-21
 - IHVA-SP · IHSL-SP
 - IBF
 - IHV-FX
 - RBOX
 - IDBB-CH
 - IDHRA
 - UV-CAN
 - Infrared
 - Infrared
 - IMAR-RGB
 - IDDA-KH-RGB
 - RGB Full-color
 - ISU
 - ISS
 - Introduction of Customization
 - High-speed/ultra-high-speed/ultra-low-speed products
 - ISC-24
 - Image capture evaluation kit products
 - IDMU
 - ILP
 - ILC
 - ILV
 - ILS
 - IPPA_G · IRPA_G
 - IPSA · IPPA
 - IDGC
 - IDPA
 - IDCA
 - IMC
 - IWDV-24
 - IWDV(S)-48
 - ISC
 - IJS
 - IJS-30M2-TP/SS
 - ILS-40M2-PI/SS
 - SAG
 - SLLUB
 - LLUB
 - IFIC

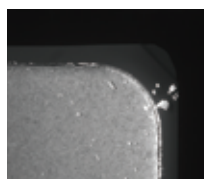
Imaging Example

Ideal for excitation of fluorescent materials and inspection of fine scratches.

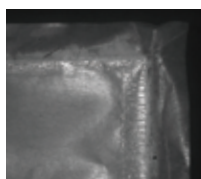
Sample:
Curry Powder Adhesion



IDHRA-100S-UV-365



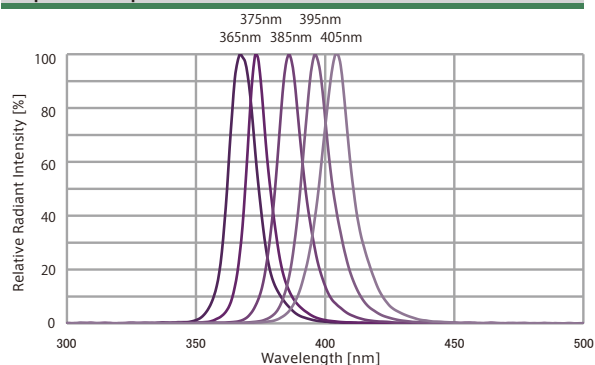
Sample:
Adhesion of Glue



IDHRA-100S-UV-365



Optical Spectrum (Ref.Value)



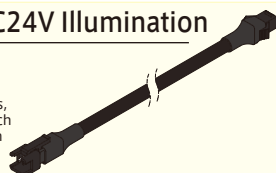
Model	Color	Power Consumption(W)	Input Voltage	Applicable Controller	Drawing
IDHRA-65L-UV-■	UV (365,375,385,395,405)	8	DC24V	IDMU-24 series (P.193) ILP-60M2-24 (P.197) IDGC-24 series (P.209)	1
IDHRA-65S-UV-■	UV (365,375,385,395,405)				2
IDHRA-100L-UV-■	UV (365,375,385,395,405)	15.4			3
IDHRA-100S-UV-■	UV (365,375,385,395,405)				4

★The illumination wavelengths(365,375,385,395,40) is indicated by ■ in the model table.

Connection Cable For DC24V Illumination

I-CB-S_-24 Series

When used for moving parts such as robots, please use the I-CB-S_R-24-C02 series which manufactured with robust robot cable with high flexibility.



Recommended Digital Controller(PWM Control)

IDMU-24 Series

Output control: 1,000 Levels
Compact PWM controller with DC24V input voltage, ideal for installation inside panels
Expandable up to 40 channels by linking units
Equipped with programming and camera trigger output functions, making it versatile.



Lens Filter

IM-UV / IM-Y48 Series

These filters are designed to cut off light with a specific wavelength range.

300-450nm Near Ultraviolet Transmittance Filter 480nm and above Transmittance Filter



Model	Mount Diameter
IM-UV-M255	M25.5 x P0.5
IM-UV-M270	M27.0 x P0.5
IM-UV-M305	M30.5 x P0.5



Model	Mount Diameter
IM-Y48-M255	M25.5 x P0.5
IM-Y48-M270	M27.0 x P0.5
IM-Y48-M305	M30.5 x P0.5

Protective Plate/Diffusion Plate for IDBB-CH series

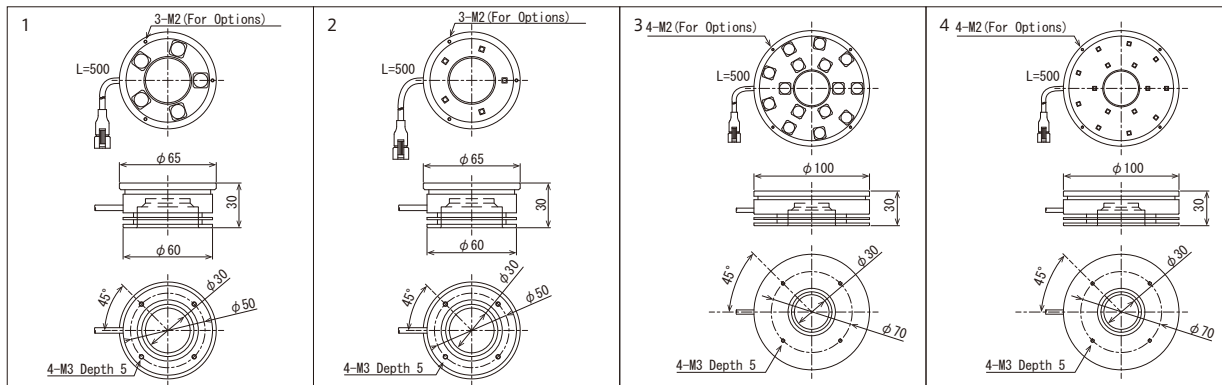
IKBB-CH series

Surface-mounted type protective plates and diffuser plates, which made from materials that can withstand UV irradiation, and offer superior light transmission and durability compared to regular transparent and diffusing plates.



Model	Applicable Illuminations	Transparency Rate
IKHRA-65UV-100	IDHRA-65□-UV-■	100%
IKHRA-100UV-100	IDHRA-100□-UV-■	100%
IKHRA-65UV-85	IDHRA-65□-UV-■	85%
IKHRA-100UV-85	IDHRA-100□-UV-■	85%

The symbol (L/S) represents the illumination specification in □, and the numerical value (365, etc.) indicates the irradiation wavelength in ■.



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 - IDBC-LSR
 - IDBB-LSRH
 - IDBB-LSRA
 - IDBB-LSRS
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 - IDBB-LSRC
 - IDBC-RE
 - IDBB-RE
 - IDBA-RK
 - IQDH-RE
 - IMAR-D_8ch
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 - IDRA-T-8ch
 - IMAR-D
 - IMAR-CT D
 - IHR-LE
 - IHRB · IHRA
 - IDR-F
 - IDR-F33/16
 - IDR
 - IDR-LA
 - IDRA-T
 - IFR · IPR
 - IDBA-HM
- Ring illumination products
 - IDBA-HMS
 - IDBA-HMS-IR
 - IDBA-FD
 - IDBA-LEH2
 - IDBA-LEH
 - IDBA-LE
 - IDBA-SE
 - IDBA-SL
 - IDBA
 - IDBA-Q
 - IFLA · IFLB
 - IDHM
 - IHMA
 - IHMA-V
 - IFPA
 - IFD
 - IFD-IR
 - IHMA-40D
 - IFPA-D
 - IPQC
 - IFHA
 - IDBB-KH · IDDA-KH
 - IDUB
 - IDD
 - IDD-CB
 - IQD · IQDH
 - IQDA-CB
 - IFVA · IFVB
 - IFVA-ST
 - IFV
 - IV-14 · IV-30
 - IHV-20 · IHVE-21
- Bar illumination products
 - IHVA-SP · IHSL-SP
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 - IHV-FX
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 - IDMU
 - ILP
 - ILC
 - ILV
 - ILS
- Controller products
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 - IPSA · IPPA
 - IDGC
 - IDPA
 - IDCA
 - IMC
 - IWDV-24
 - IWDV(S)-48
 - ISC
 - IJS
 - IUS-30M2-TP/SS
 - ILS-40M2-PI/SS
 - SAG
 - SLUB
 - LLUB
 - IFIC