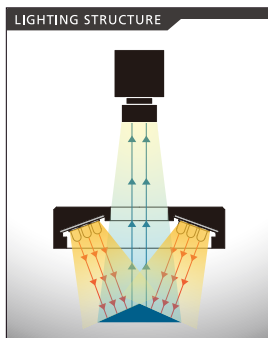
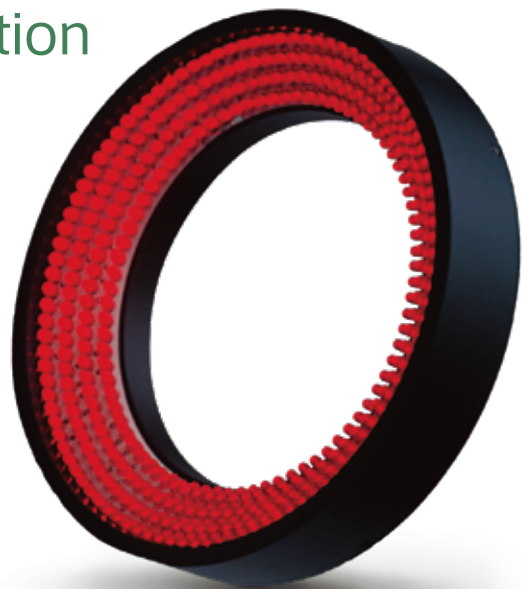


# Direct Irradiate Ring Illumination [IDR Series]

General purpose ring illumination for a variety of visual inspections

24V DC Models Available

- Applications**
- Battery Industry etc.
    - ➔ Inspection of top surface etc.
  - Beverage bottles/Plastic molding industry etc.
    - ➔ Inspection of printing on the cap etc.
  - Electronic components industry etc.
    - ➔ Inspection of mounted circuit boards etc.



**Standard Size Lineup** Standard release in 10 sizes:  $\phi 32 / \phi 38 / \phi 40 / \phi 42 / \phi 50 / \phi 66 / \phi 70 / \phi 90 / \phi 110 / \phi 140$ mm

## Imaging Example

This is an example image captured with improved anti-glare using direct illumination from the top

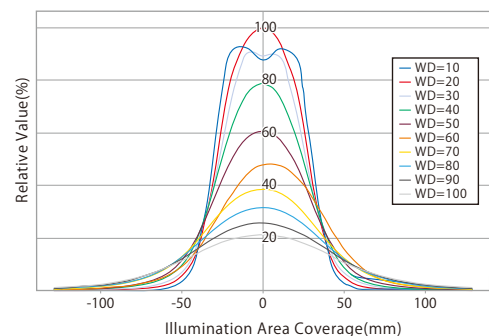
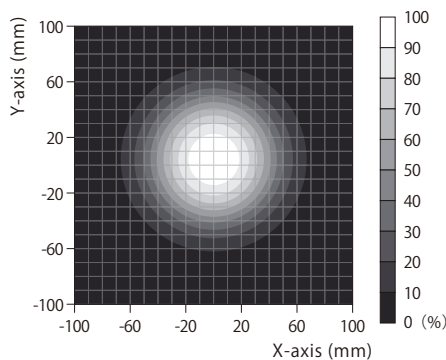


IDR-110/60DW Direct Illumination

IDR-110/60DW with a Diffuser Plate

IDR-110/60DW with a Polarizer

## Illuminance Distribution Chart(Ref.Value)

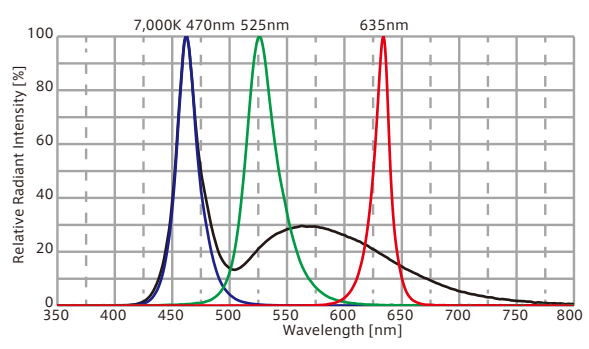


Used Illumination: IDR-70/39DW

By tilting the angle of the LED, the center could be illuminated brightly by direct illumination from the top.  
 ※ Custom LED tilt angle specifications upon request is available.  
 Used Illumination: IDR-110/60DW  
 WD : 50mm

- 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 and high resolution camera kit 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

Optical Spectrum (Ref.Value)



Model	Color	Power Consumption(W)	Input Voltage	WD(mm)	SAG(※)	Applicable Controller	Drawing
IDR-32/10□	DR	1.6	DC12V	10~30	D8	IDMU Series (P.193) ILP-30M2 (P.197) IDGC Series (P.209) and the others Strobe/Overdrive Controllers, etc.	1
	DW B G	1.8			FF		
IDR-38/15□	DR	1.8		10~35	C6		2
	DW B G	2.2			FF		
IDR-40/25□	DR	1.2		25~45	C6		3
	DW B G	1.5			FF		
IDR-42/18□	DR	2.2		25~45	D0		4
	DW B G	2.6			FF		
IDR-50/28□	DR	3		20~50	C7		5
	DW B G	2.7			FF		
IDR-66/36□	DR	4.3		40~80	FF		6
	DW B G	5.4			FF		
IDR-70/39□	DR	4.7		20~70	FF		7
	DW B G	5.8			FF		
IDR-90/50□	DR	7.1	40~90	FF	8		
	DW B G	6.5		FF			
IDR-110/60□	DR	9.6	40~100	FF	9		
	DW B G	9.6		FF			
IDR-140/95□	DR	13.9	50~110	FF	10		
	DW B G	10.8		FF			

★The emission color (DW=White,DR=Red,B=Blue,G=Green) is indicated by □ in the model table. ★A diffuser plate and a polarizing plate can be attached.(Optional)  
 ※DC24V products are also available. Please feel free to contact us for more information. ※SAG: The maximum instantaneous upper limit output voltage setting value in the controller for the corresponding illumination when used in combination with the Overdrive controller.  
 ★Custom sizes are also available aside from the ones listed above.

### Singal Type Extension Cable For DC12V Illumination

#### I-CB-S series

When used for moving parts such as robots, please use the I-CB-S\_R-C02 series, which manufactured with robust robot cable with high flexibility. For DC24V model, please use the I-CB-S\_R-24 series or I-CB-S\_R-24-C02 series.

### Recommended Digital Controller(PWM Control)

#### IDMU 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.

### Diffuser Plate for IDR Series

#### IKR Series

The standard transmittance is 80%, and there are also 90%, 60%, and 30% options available. For the red version (DR series), the standard transmittance is 60%.

Model	Applicable Illumination	Model	Applicable Illumination
IKR-32/10-80	IDR-32/10	IKR-66/32-80	IDR-66/36
IKR-38/15-80	IDR-38/15	IKR-70/39-80	IDR-70/39
IKR-38/12-80	IDR-38/15	IKR-70/35-80	IDR-70/39
IKR-40/25-80	IDR-40/25	IKR-90/50-80	IDR-90/50
IKR-40/21-80	IDR-40/25	IKR-90/46-80	IDR-90/50
IKR-42/18-80	IDR-42/18	IKR-110/60-80	IDR-110/60
IKR-50/28-80	IDR-50/28	IKR-110/56-80	IDR-110/60
IKR-50/24-80	IDR-50/28	IKR-140/95-80	IDR-140/95
IKR-66/36-80	IDR-66/36	IKR-140/91-80	IDR-140/95

### Polarizing Plate for IDR Series

#### IKR-PL Series

This is a polarizing plate that attaches to the front of IDR

Model	Applicable Illumination	Model	Applicable Illumination
IKR-32/10-PL	IDR-32/10	IKR-66/32-PL	IDR-66/36
IKR-38/15-PL	IDR-38/15	IKR-70/39-PL	IDR-70/39
IKR-38/12-PL	IDR-38/15	IKR-70/35-PL	IDR-70/39
IKR-40/25-PL	IDR-40/25	IKR-90/50-PL	IDR-90/50
IKR-40/21-PL	IDR-40/25	IKR-90/46-PL	IDR-90/50
IKR-42/18-PL	IDR-42/18	IKR-110/60-PL	IDR-110/60
IKR-50/28-PL	IDR-50/28	IKR-110/56-PL	IDR-110/60
IKR-50/24-PL	IDR-50/28	IKR-140/95-PL	IDR-140/95
IKR-66/36-PL	IDR-66/36	IKR-140/91-PL	IDR-140/95

