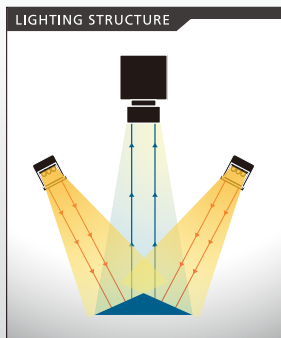


Highly Directional BAR Illumination [IDBA-C series]

Highly directional LED elements implemented original bar illumination
Wide range of use from oblique lighting to back lighting

24V DC Models Available

- Applications**
- Packaging industry etc.
 - ➔ Inspection and Recognition of characters/barcodes
 - Beverage bottles/Plastic molding industry etc.
 - ➔ Inspection and Recognition of characters /printings
 - Connector manufacturing industry etc.
 - ➔ Inspection of Connector pin shape

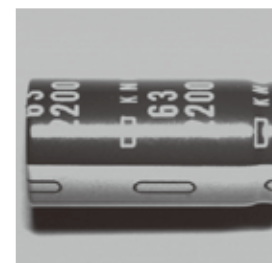


Standard Size Lineup

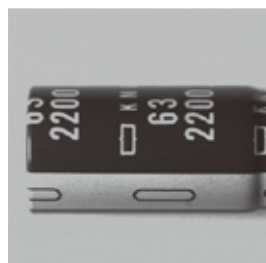
Standard release in 17 sizes:
Multiple rows ranging from two to dozens of rows
Equipped with highly directional LED elements.

Imaging Example

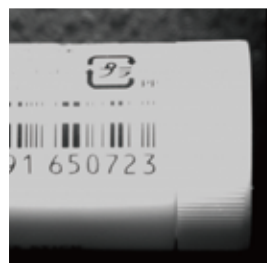
Different illumination effects achieved through variations in the illumination direction.Used Illumination: IDBA-C72/24DW



Illuminated from the longitudinal direction



Illuminated from the lateral direction



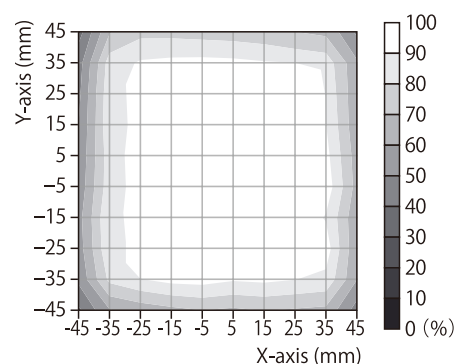
Illuminated from the longitudinal direction



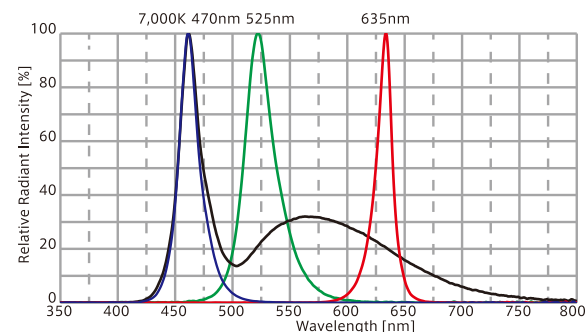
Illuminated from the lateral direction

Illuminance Distribution Chart(Ref.Value)

Achieved to illuminate the area excluding approximately 10mm from the outer edge of the emitting surface with high-uniformity and high-intensity.



Optical Spectrum (Ref.Value)



Model	Color	Power Consumption(W)	Input Voltage	SAG (※)	Applicable Controller	Drawing
IDBA-C11/14□	DR	0.3	DC12V	C5	IDMU Series (P.193) ILP-30M2 (P.197) IDGC Series (P.209) and the others Strobe/Overdrive Controllers, etc.	1
	DW B G	0.4		FF		2
IDBA-C11/14□S-H21	DR	0.3		C5		3
	DW B G	0.4		FF		4
IDBA-C15/26□S	DR	0.6		C5		5
	DW B G	1.1		FF		6
IDBA-C27/34□	DR	2.4		C6		7
	DW B G	2.9		FF		8
IDBA-C50/15□	DR	1.8		C6		9
	DW B G	2.2		FF		10
IDBA-C100/11□	DR	2.4		C6		11
	DW B G	2.9		FF		12
IDBA-C100/15□	DR	4.2		C8		13
	DW B G	4.4		FF		14
IDBA-C140/11□	DR	4.2		C8		15
	DW B G	4.4		FF		16
IDBA-C132/15□	DR	5.4		C8		17
	DW B G	5.8		FF		
IDBA-C72/24□	DR	5.4		C8		
	DW B G	4.4		FF		
IDBA-C25/25□S	DR	1.8		C6		
	DW B G	2.2		FF		
IDBA-C50/50□S	DR	6.4		FF		
	DW B G	5.4		FF		
IDBA-C70/75□S	DR	10.2		CC		
	DW B G	10.1		FF		
IDBA-C100/100□S	DR	20.4		D3		
	DW B G	20.6		FF		
IDBA-C15/200□S	DR	8.4		CA		
	DW B G	8.9		FF		
IDBA-C185/30□S	DR	13.2		CE		
	DW B G	13		FF		
IDBA-C300/24□S	DR	20.2		CE		
	DW B G	25.6		DC		

★The emission color (DW=White,DR=Red,B=Blue,G=Green) is indicated by □ in the model table.

★The models with an "S" at the end in the model table come with a diffusion plate.

The diffusion plate for the DR series has a transmittance of 60%, while for other models, it is 80% as standard.

★DC24V products are also available. Please feel free to contact us for more information.

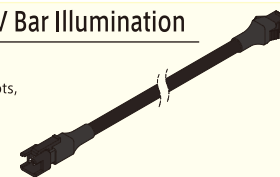
★Custom sizes are also available aside from the ones listed above.

※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.

Extension Cable For DC12V Bar Illumination

I-CB-S Series

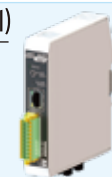
When used for moving parts such as robots, please use the I-CB-S_R-C02 series, which manufactured with robust robot cable with high flexibility. I-CB-S_-24 series and I-CB-S_R-24-C02 series are compatible for DC24V model.



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.



Optional Diffuser Plate For IDBA

IKBA Series

This diffusion plate is specifically designed for bar illumination. By attaching it, light can be diffused and it is possible to reduce the reflection on the object. The standard transmittance is 80%, and with the same thickness, there are also 90%, 60%, and 30% options available. ※For the red color (DR series), the standard transmittance is 60%.



Polarizing Plate For IDBA

IKBA-PL Series

This is a polarizing plate that attaches to IDBA. By attaching a PL filter to the camera lens side as well, it is possible to cancel out object glare and surface reflections. Similarly to the diffusion plate, it can be easily attached and detached with screws, please note it is divided into A type and B type depending on the direction of the polarizer.

Depending on your usage environment, there is a risk of deformation or discoloration due to heat. Please take heat dissipation measures and use within the temperature range that does not exceed the heat resistance temperature (74°C). To ensure optimal performance, please regularly inspect and confirm.

A type	Polarizer Direction	Model	Applicable Illumination	Model	Applicable Illumination
		Model	Applicable Illumination	Model	Applicable Illumination
B type	Polarizer Direction	IKBA-11/14-■-PL	IDBA-C11/14	IKBA-100/15-■-PL	IDBA-C100/15
		IKBA-15/26-■-PL	IDBA-C15/26	IKBA-140/11-■-PL	IDBA-C140/11
A type	Polarizer Direction	IKBA-25/25-■-PL	IDBA-C25/25	IKBA-132/15-■-PL	IDBA-C132/15
		IKBA-50/15-■-PL	IDBA-C50/15	IKBA-72/24-■-PL	IDBA-C72/24
B type	Polarizer Direction	IKBA-27/34-■-PL	IDBA-C27/34	IKBA-50/50-■-PL	IDBA-C50/50
		IKBA-100/11-■-PL	IDBA-C100/11	IKBA-70/75-■-PL	IDBA-C70/75

★The polarizer direction (A or B) is indicated by ■ in the model table.

Line 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
Ring illumination products	IFLA · IFLB IDHM IHMA IHMA-V IFPA 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
Bar illumination products	IFLA · IFLB IDHM IHMA IHMA-V IFPA 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
Special illumination products	IFLA · IFLB IDHM IHMA IHMA-V IFPA 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
Controller products	IFLA · IFLB IDHM IHMA IHMA-V IFPA 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

