

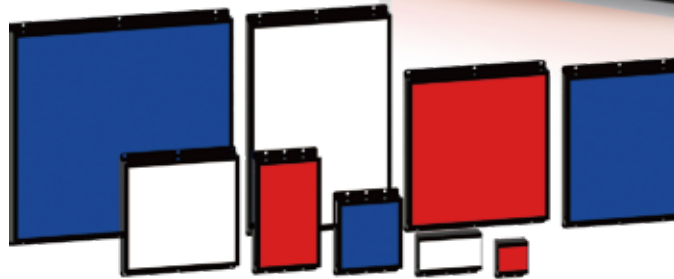
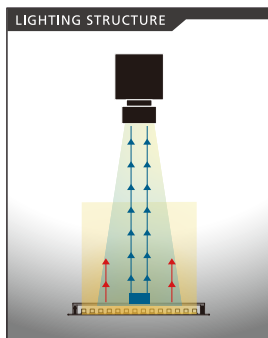
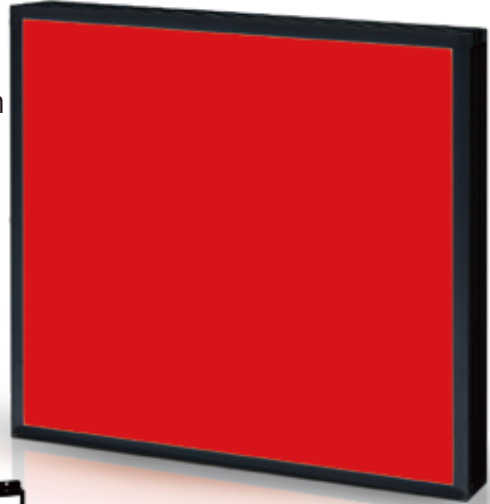
NEW

Backlight-Narrow-Angle Light Distribute Illumination [IHMA-V Series]

Narrow-angle light distribution prevents light diffraction
Ideal for edge detection of cylindrical or glossy surfaces

25V DC Models Available | Designs Registered Product

- Applications**
- Connector manufacturing industry etc.
 - ➔ Inspection & Measurement of connector pin pitch.
 - FPD/Liquid crystal glass industry etc.
 - ➔ Inspection & Recognition of alignment mark /data code

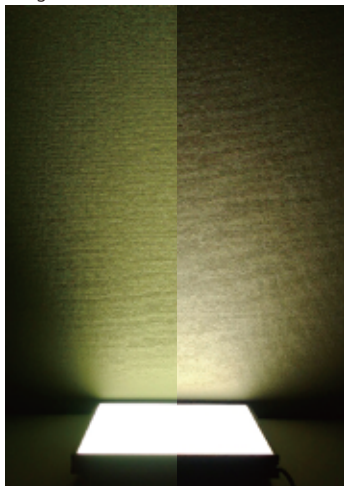


Standard Size Lineup Standard release in 9 sizes from 25x30~214x226mm²

Narrow-Angle Light Distribution (Suppression of Light Diffraction)

With the narrow-angle illumination of IHMA-V, it suppresses light spillage on glossy metal cylinders and enables edge detection.

When conducting dimensional inspections of metal cylindrical products prone to halation, using the narrow-angle illumination type IHMA-V series ensures high directivity of light and reduces the occurrence of light spillage, enables more accurate and easier edge detection.

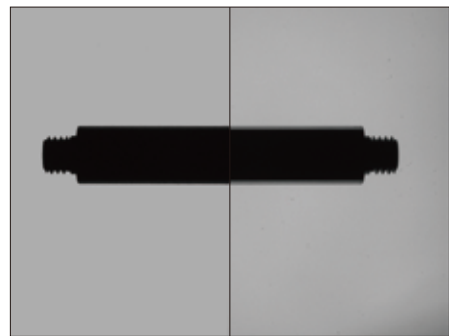


Narrow-angle light distribution type

IHMA-V series

Diffuse light type

IHMA series

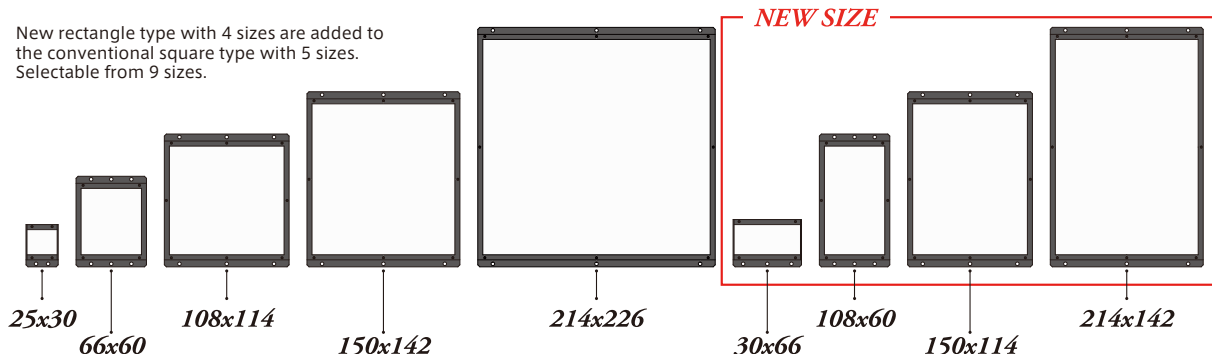


IHMA-108/114W-V (Narrow-angle light distribution type)

IHMA-108/114W (Diffuse light type)

A Wide Range of Size Variations Available

New rectangle type with 4 sizes are added to the conventional square type with 5 sizes. Selectable from 9 sizes.



- 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
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- UV-CAN
- Infrared
- Infrared
- IMAR-RGB
- IDDA-KH-RGB
- RGB Full-color
- ISU
- ISS
- Introduction of Customization
- High-speed and long-range color light products
- ISC-24
- Image capture evaluation kit products
- 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
- SLUB
- LLUB
- IFIC

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
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- 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
- IPQC
- IFHA
- IDDB-KH · IDDA-KH
- IDUB
- IDD
- IDD-CB
- IQD · IQDH
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Special illumination products

- Introduction of Customization
- High-speed synchronous imaging series kit products
- ISC-24
- Image capture evaluation kit products

Kit products

- IDMU
- ILP
- ILC
- ILV
- ILS

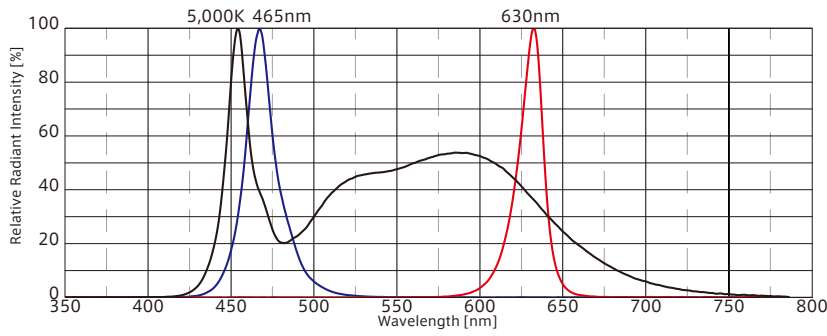
Controller products

- IPPA_G · IRPA_G
- IPSA · IPPA
- IDGC
- IDPA
- IDCA
- IMC
- IWDV-24
- IWDV(S)-48
- ISC
- IJS
- IUS-30M2-TP/SS
- ILS-40M2-PI/SS

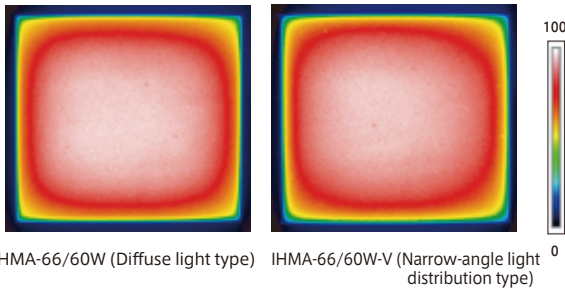
Other illumination products

- SAG
- SLLUB
- LLUB
- IFC

Optical Spectrum (Ref.Value)

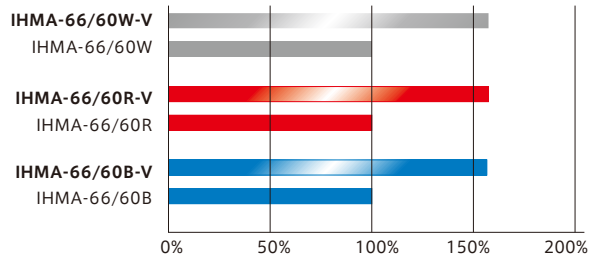


Emitting Surface Luminance Distribution (Ref.Value)



Higher Intensity Irradiation Achieved (Ref.Value)

The intensity improved by about 1.6 times compared with the diffuse light type IHMA series. It is also suitable for high-speed shutter imaging purposes.



Imaging Example

● Spark plug



IHMA-108/114W-V
Clear silhouette is achieved with minimal light wrapping around. Perfect for dimensional measurement of tapped areas and more.



IHMA-108/114W
Light wrapping occurs, resulting in indistinct silhouettes, which makes it unsuitable for dimensional measurements. However, it may reveal surface imperfections such as scratches on the tapped areas due to variations in light reflection.

● Vial bottle with water



IHMA-108/114W-V
The edges of the bottle's outer circumference are highlighted, making it ideal for dimensional inspection of transparent materials.



IHMA-108/114W
Light transmits to the edges, allowing for foreign object inspection up to the edge.

Model	Color	Power Consumption(W)	Input Voltage	SAG (※)	Applicable Controller Type	Applicable Controller	Drawing
IHMA-25/30□-V	R	2.3	DC12V	DE	①	【Controller Type①】 IDMU Series (P.193) ILP-30M2 (P.197) IDGC Series (P.209) and the others Strobe/Overdrive Controllers, etc.	1
	W	2.8		B8			
	B	2.7		A0			
IHMA-66/60□-V	R	7.5		FF			
	W	9		FF			
	B	8		FF			
IHMA-108/114□-V	R	15		FF			
	W	18		FF			
	B	17		FF			
IHMA-150/142□-V	R	22		FF			
	W	27		CA			
	B	24		DB			
IHMA-214/226□HV-V	R	39	DC24V	-	②		5
	W	48					
	B	44					
IHMA-30/66□-V	R	4.5	DC12V	FF	①	【Controller Type②】 IDMU-24 series (P.193) ILP-60M2-24 (P.197) IDGC-24 series (P.209) etc.	6
	W	5.5		FF			
	B	5		E8			
IHMA-108/60□-V	R	10		FF			
	W	12		FF			
	B	11		FF			
IHMA-150/114□-V	R	18		FF			
	W	23		E0			
	B	21		F5			
IHMA-214/142□-V	R	26		FF			
	W	30		B5			
	B	28		C4			

★The emission color (W=White,R=Red,B=Blue) is indicated by □ in the model table.

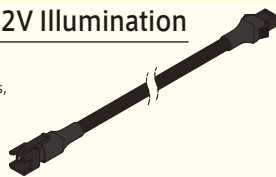
★DC24V products are also available. Please feel free to contact us for more information.

※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.

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. I-CB-S_-24 series and I-CB-S_R-24-C02 series are compatible for DC24V model.



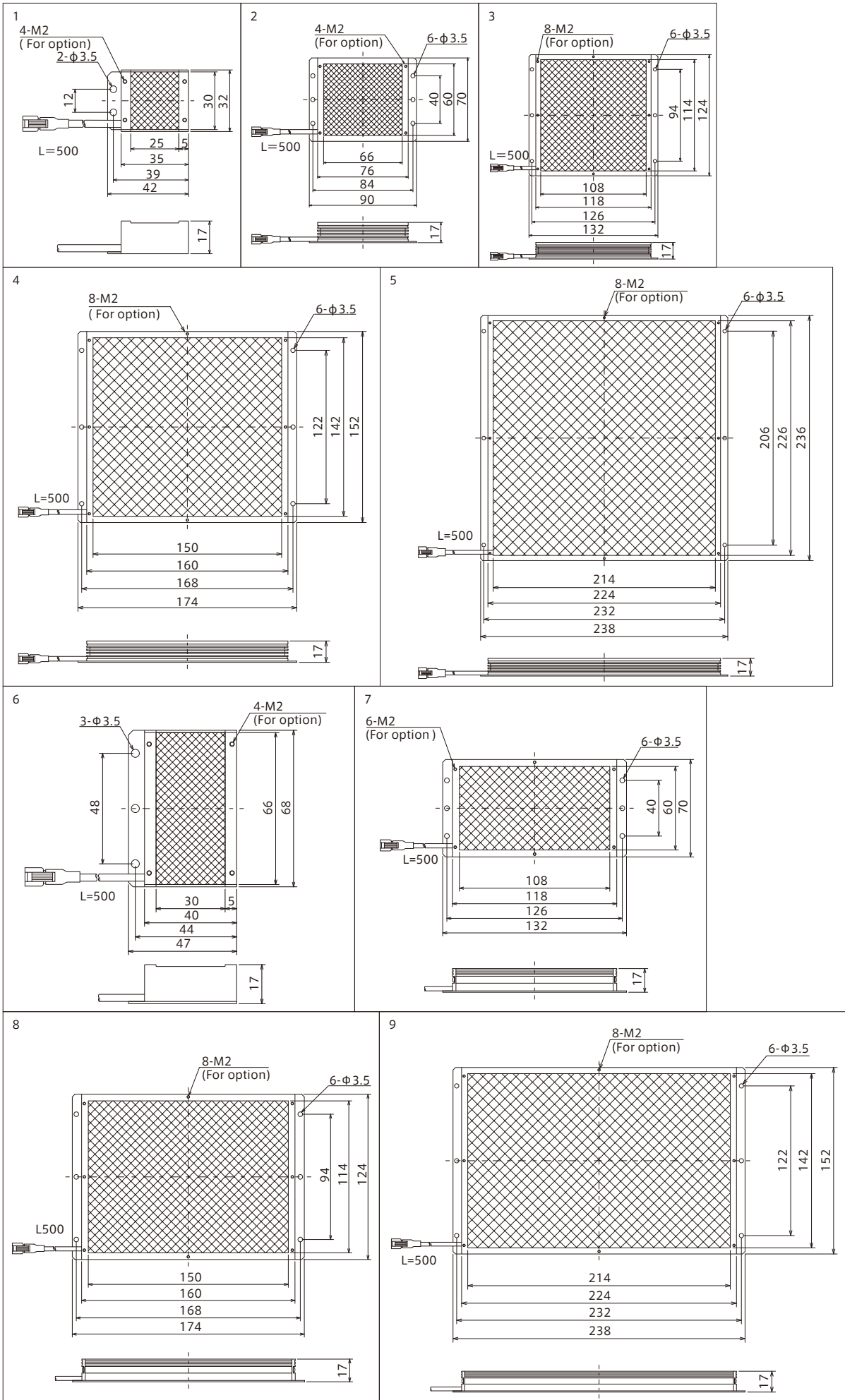
Recommended Digital Controller(PWM Control)

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.



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 - Bar illumination products
 - Transmitted/area illumination products
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Transmitted/area illumination products

Dome illumination products

Special illumination products

IR products

Controller products

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