

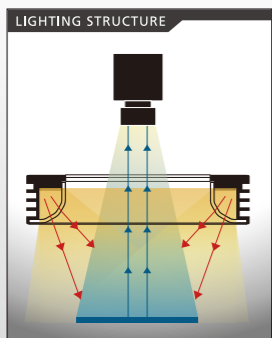
NEW
8-Channel Irradiate Ring Illumination

Multi-Channel Diffuse Irradiate Ring Illumination [IMAR-D_-8ch series]

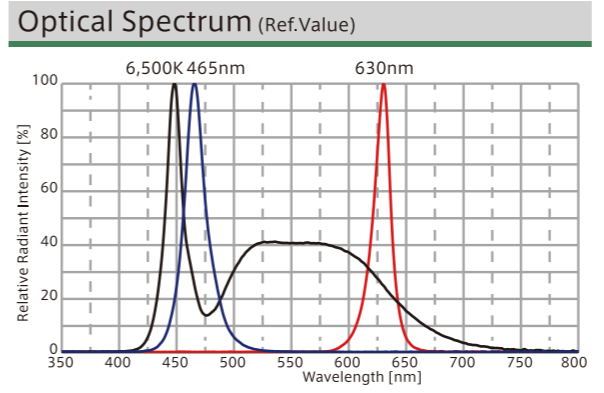
Multi-channel model which supports flexible illumination from 8 different directions
(Ideal for inspecting the surface of uneven objects)

24V DC Models Available

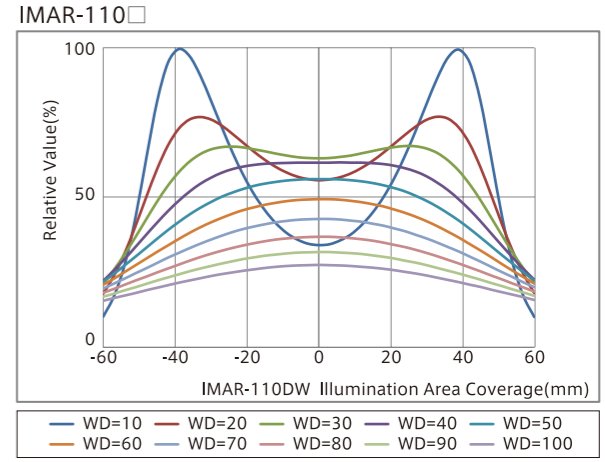
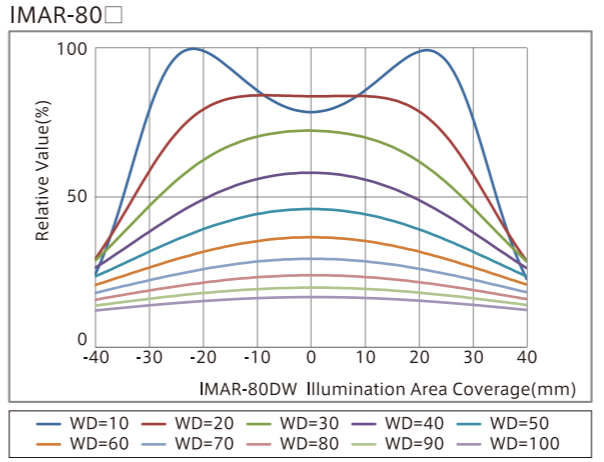
- Applications**
- Semiconductor/Electronic components industry etc.
 - ➔ Chip component Dirt/Edge inspection etc.
 - Beverage bottles/Plastic molding industry etc.
 - ➔ Top surface chipping/Perimeter chipping /Engraving inspection.



Standard Size Lineup Standard release in 6 sizes: $\phi 80/\phi 110/\phi 130/\phi 160/\phi 200/\phi 250$ mm

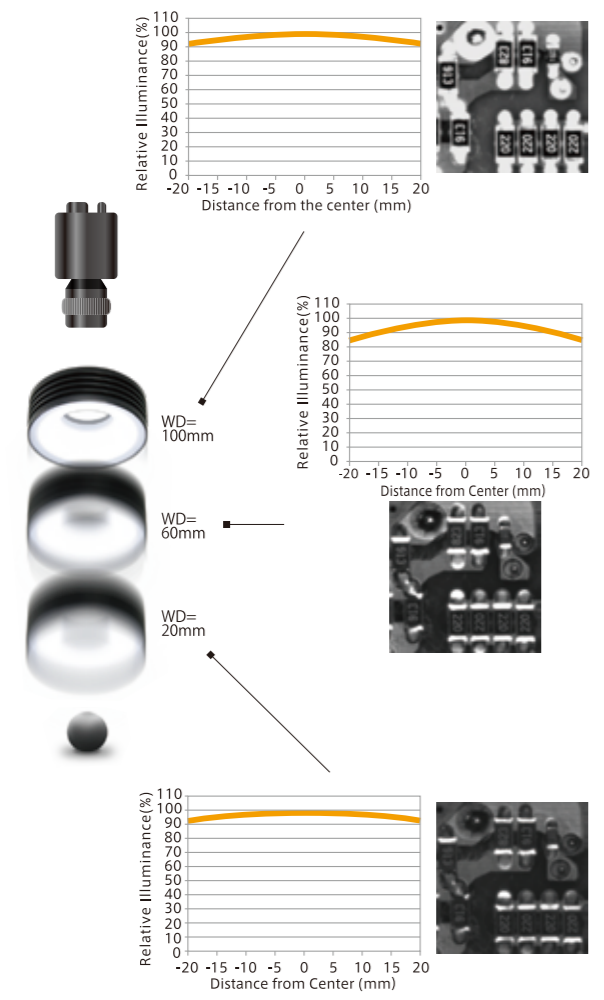


Optical Spectrum (Ref.Value)

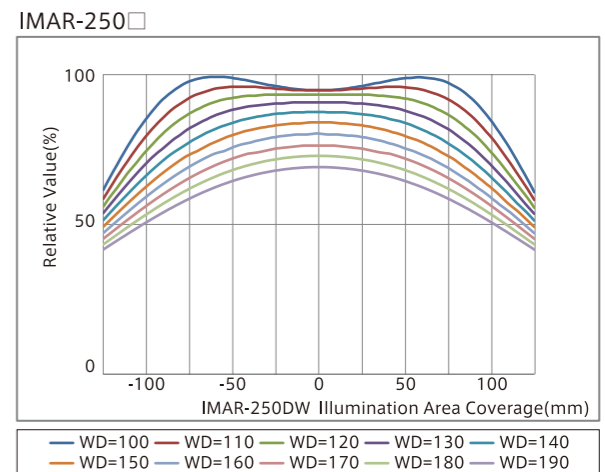
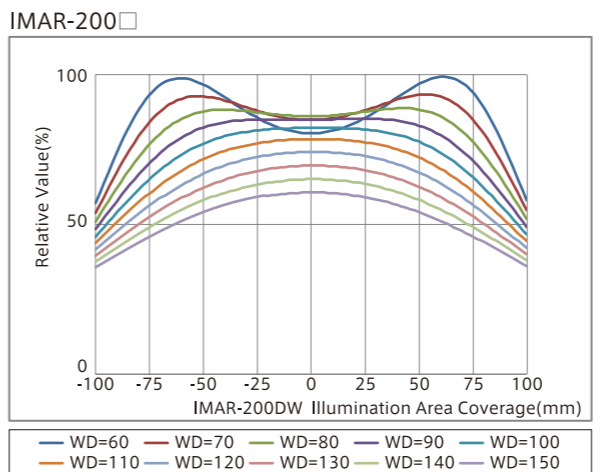
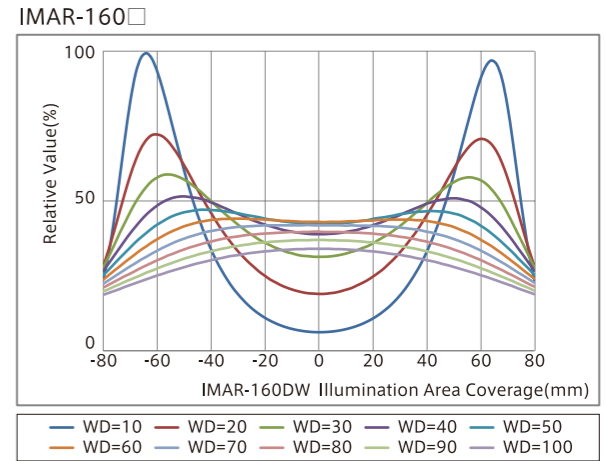
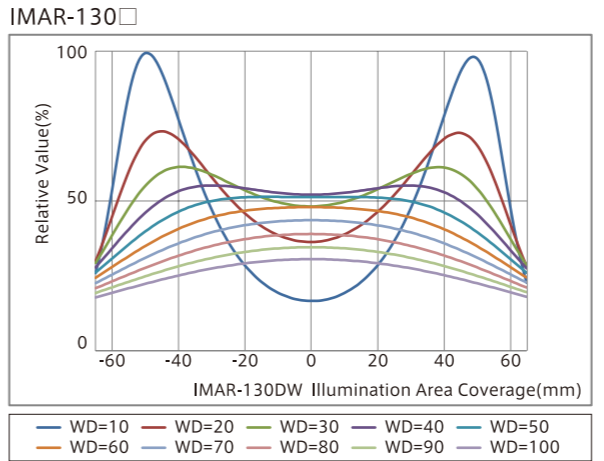


Illumination Irradiation Image(Ref.Value) IMAR-80DW-8ch(Full Illumination)

Switching To High-speed Multi-directional Irradiation Enables More Precise Inspection.



By combining with Overdrive Controller IJS-40M8-TP, it is possible to quickly switch the illumination from 8 directions.



- 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-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 synchronous image capture 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-PL/SS
- SAG
- SLLUB
- LLUB
- IFIC

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- IDBC-LSR
- IDBB-LSRH
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- IHMA
- IHMA-V
- IFPA
- IFD-IR
- IHMA-40D
- IFPA-D
- IPOC
- IFHA
- IDDB-KH-IDDA-KH
- IDUB
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- IWDV(S)-48
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- IJS
- IJS-30M2-TP/SS
- ILS-40M2-PL/SS
- SAG
- SLLUB
- LLUB
- IFIC

Imaging Example

It is possible to capture defects that cannot be detected with illumination from all directions in inspections.

The scratches cannot be detected with illumination from all directions.



The scratches cannot be emphasized even with the illumination from the same direction as the scratches.

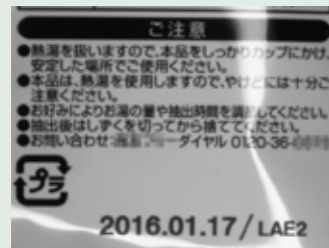


By illuminating the scratch perpendicular to its direction, it can be emphasized and detected.

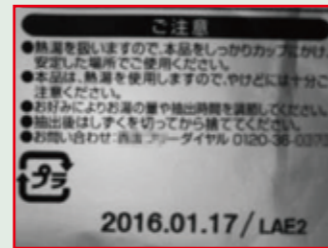


Inspection Examples Using Image Synthesis

Objects that are susceptible to halation can also be imaged with reduced halation by synthesizing images obtained from individual illuminations in 8 directions.



Used Illumination:IMAR-130DW
(Conventional omnidirectional illumination)



Used Illumination:IMAR-130DW-8ch
(Latest 8-direction illumination and image synthesis processing)

Used Illumination:IMAR-130DW-8ch
(Separate illumination in each direction)

Model	Color	Power Consumption(W)	Input Voltage	SAG(※)	Controller Types	Applicable Controller	Drawing	
IMAR-80D□-8ch	R	8.8	DC12V	E6	①	【Controller Type①】 IDMU-P8B-12 (P.193) IDGC-30M8 series (P.209) .etc (Continuous/Strobe lighting[PWM Mode/No Overdrive])	1	
	W	10.4		C3				
	B	10.4		A3				
IMAR-110D□-8ch	R	11.2		B5			【Controller Type②】 IDMU-P8B-12 (P.193) IDGC-50M8 series (P.209) .etc (Continuous/Strobe lighting[PWM Mode/No Overdrive])	2
	W	15.2		95				
	B	14.4		85				
IMAR-130D□-8ch	R	15.2		95		②		3
	W	19.2		81				
	B	16.8		7A				
IMAR-160D□-8ch	R	17.6		F5			4	
	W	22.4		C1				
	B	20		AC				
IMAR-200D□-8ch	R	23.2	B6	5				
	W	28	99					
	B	26.4	8A					
IMAR-250D□-8ch	R	29.6	DA		6			
	W	36	B7					
	B	32.8	A4					

★The emission color (W=White, B=Blue,R=Red) 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.

4-Branch Type Extension Cable For DC12V Illumination

I-CB-F series

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

Recommended Digital Controller(PWM Control)

IDMU series (8ch)

Output control: 1,000 steps
 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.

