

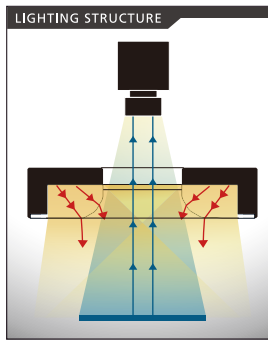
NEW

RGB Full-Color Ring Illumination [IMAR-RGB Series]

The blend of emitted wavelengths can be freely adjusted according to the inspection requirements

24V DC Models Available

- Applications**
- Automotive parts/ on-board parts industry etc.
 - ➔ Color identification with a colorimeter
 - Food/Packaging industry, etc.
 - ➔ Inspection of dirt and text on color packages
 - Electronic components industry etc.
 - ➔ Inspection of solder ball etc.



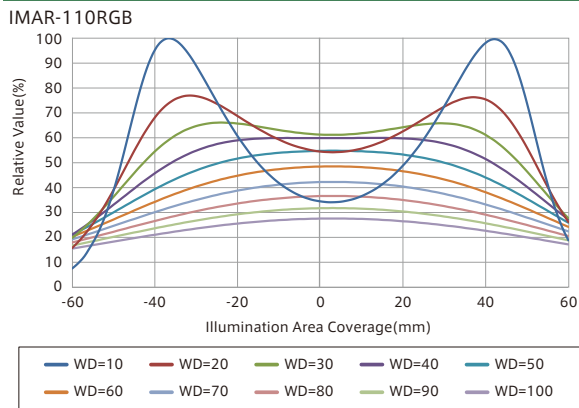
The image above is for illustration purposes. The actual illumination emits a single color of composite light.

Standard Size Lineup Standard release in 3 sizes: $\phi 80 / \phi 110 / \phi 130\text{mm}$

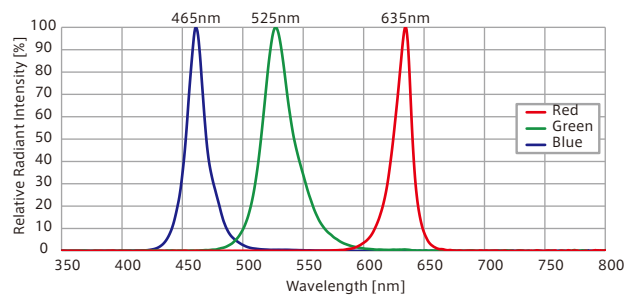
Regarding The Relationship Between The Illumination Color and The Object Color

		Illumination Color			Relationship between Reflection and Absorption	
Color of the Object		Red LED Illumination	Green LED Illumination	Blue LED Illumination		
Cyan					R : Absorption ★ G : Reflection B : Reflection C (Cyan)	
		Absorption	Reflection	Reflection		
Yellow					R : Reflection G : Reflection B : Absorption ★ Y (Yellow)	
		Reflection	Reflection	Absorption		
Magenta					R : Reflection G : Absorption ★ B : Reflection M (Magenta)	
		Reflection	Absorption	Reflection		

Luminance Distribution Chart (Ref. Value)



Optical Spectrum (Ref. Value)



Line illumination products
 Ring illumination products
 Bar illumination products
 Transmitted/area illumination products
 Dome illumination products
 Special illumination products
 I/O products
 Controller products
 Other illumination products

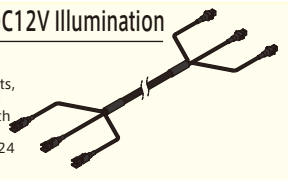
Model	Power Consumption (W)			Input Voltage	SAG(※)			Applicable Controllers	Drawing
	R	G	B		R	G	B		
IMAR-80RGB	2.2	2.2	2.2	DC12V	CB	B3	B4	IDMU Series (P.193) IDGC-30M4 series (P.209) IJS-40M4-TP (P.223)	1
IMAR-110RGB	3.4	3.4	3.4		CA	B3	BA		2
IMAR-130RGB	4.4	4.4	4.4		D6	BE	C4		3
IMAR-80RGBHV	2.2	2.2	2.2	DC24V				IDMU series (P.193) IDGC-30M4 series (P.209) and the others Strobe/Overdrive Controllers, etc	1
IMAR-110RGBHV	3.4	3.4	3.4						2
IMAR-130RGBHV	4.4	4.4	4.4						3

※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.

3- Barch Extension Cable For DC12V Illumination

I-CB-TT Series

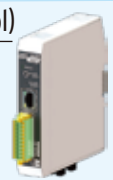
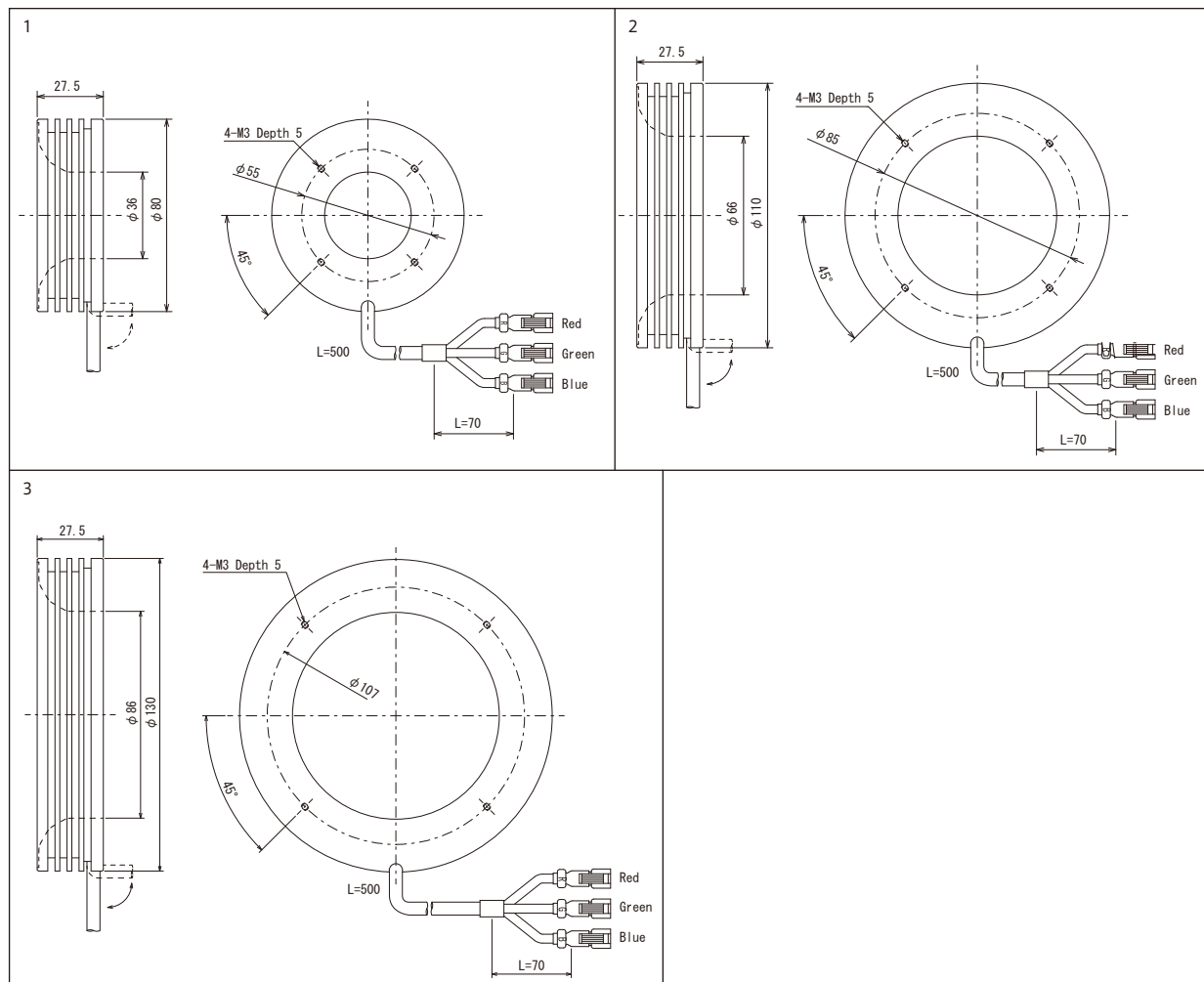
When used for moving parts such as robots, please use the I-CB-T_R-C02 series, which manufactured with robust robot cable with high flexibility.
For DC24V model, please use the I-CB-T_-24 series or I-CB-T_R-24-C02 series.



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.

- 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
 - 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
 - IQDA-CB
 - IFVA · IFVB
 - IFVA-ST
 - IFV
 - IV-14 · IV-30
 - IHV-20 · IHVE-21
- Local illumination products
 - 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
 - Introduction of Customization
 - High-speed synchronous imaging special 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
 - IJS-30M2-TP/SS
 - ILS-40M2-PI/SS
- Other illumination products
 - SAG
 - SLLUB
 - LLUB
 - IFC