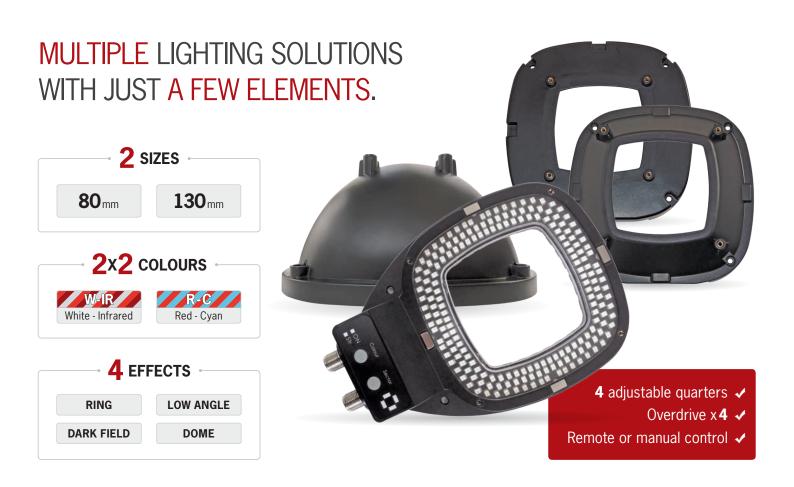


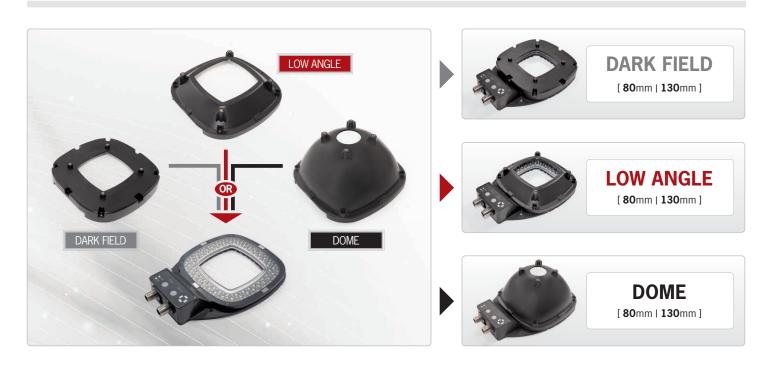


MODULAR RINGLIGHT RING | DARK FIELD | LOW ANGLE | DOME

 ▶ MACHINE VISION
 ▶ HIGH POWER LED
 ▶ MODULAR ILLUMINATION
 ▶ BI-COLOR RING
 ▶ 4 INDEPENDENT QUARTERS
 ▶ OVERDRIVE
 ▶ INGENIOUS REFLECTORS



INTER-CHANGEABLE REFLECTORS



Machine vision specialists want to be able to select the best illumination configuration as quickly as possible whilst also having the confidence to take the product out of the laboratory and into a production environment. With the Modular Ringlight, this efficient way of working is now a reality.

Comprising of a controllable, bi-colour LED lighting ring (2 sets of colours, 2 dimensions) and a range of inter-changeable reflectors, the Modular Ringlight is designed to let them make their illumination choices quicker than ever before. A cleverly designed LED "square

ring" is used in conjunction with either a Dark Field, Low Angle or Dome reflector to give drastically different illumination results. Variation of the light effects are quick and simple with manual push button control and "easy clip-on" reflectors.

Once the most suitable reflector has been selected, the same products can then be installed onto a production line using conveniently located securing screws and engaging the remotecontrol capability.

4 LIGHTING METHODS



DARKFIELD (DF)





LIGHTING POWER

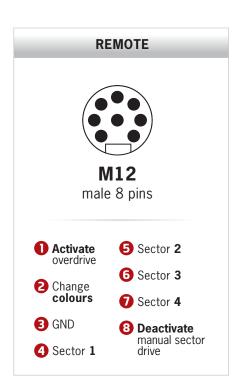
	Modular Ringlight 80				Modular Ringlight 130			
	RED (cd)	CYAN (cd)	WHITE (cd)	IR (mW/Sr)	RED (cd)	CYAN (cd)	WHITE (cd)	IR (mW/Sr)
Standard (distance: 0 cm)	43	55	300	150	65	82	445	220
Overdrive (distance: 0 cm)	172	195	1 200	600	260	286	1 830	900

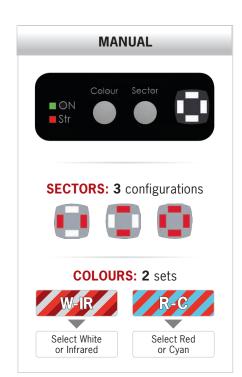
TECHNICAL SPECIFICATIONS

Dimensions	80mm	130mm			
	Electronics				
Power Supply	24 VD/C +/-10%				
Functioning Mode	Continuous, Strobe, Overdrive, Dimming, Manual Control				
Rising Time	10 μs				
Falling Time	10 μs				
Wiring	5 Pin M12 male connector for manual, 8 Pin M12 male connector for remote control				
Max. consumption Red-Cyan	9W average / 51W peak	11W average / 82W peak			
Max. consumtion WHI-IR	10W average / 42W peak	13W average / 62W peak			
	Optics				
Colour	Red-Cyan and White-Infrared				
Number of LEDs	96	144			
	Mechanical				
Dimensions (external)	136 x 193 mm	197 x 257 mm			
Height with no accessories	11 mm at light, 31 mm at connectors				
Height with Dome	75 mm	106.75 mm			
Height with Low Angle	34.75 mm	45.25 mm			
Height with Darkfield	27.5 mm	27.5 mm			
Weight (no accessories)	270 g	388 g			
Body Material	Aluminum & ABS				
Mounting/Fixing	2x M5 Screws				
	Environment				
Operating Temperature	-10° to +40°C / 80% of humidity without condensation No thermal shock (max temperature variation: 10°C in 24h)				
Storage Temperature	-20° to +60°C / 80% of humidity without condensation No thermal shock (max temperature variation: 10° C in 24h)				
IP Protection	IP 65				
Labels	RoHS-CE-WEEE				

SECTORS & COLOURS CONTROL







HOW TO BUILD YOUR PRODUCT REFERENCE





EXAMPLES:

MR

Modular Ringlight 80mm white-IR LEDs Ring version \implies MR-80-WIR-R Modular Ringlight 130mm red-cyan LEDs Dome version \implies MR-130-RC-D



HOW TO BUILD YOUR LAB KIT REFERENCE

Modular Ringlight 130mm red-cyan LEDs Lab Kit \implies MR-130-RC-LK

Modular Ringlight 80mm red-cyan and white-IR LEDs Lab Kit → MR-80-RC-WIR-LK*



The **LAB KITS** contain 1 (or 2) ring(s) + 3 reflectors (Dome, Dark Field & Low Angle).

* 2 rings



The Optical Trigger is an easy solution to connect the Modular Ringlight to your smart camera, without a wired connection. Using the Optical trigger, you can get a perfect synchronization of the Modular Ringlight with the camera software very easily. The Optical Trigger can be directly fixed to the Dome reflector. A new generation accessory that simplifies integration!

NO CABLE BETWEEN THE MODULAR RINGLIGHT AND THE CAMERA!



RELATED PRODUCTS: CABLES







BINNING INFORMATIONS

TPL VISION IS EXTREMELY CAREFUL ABOUT BIN SORTING IN THE SELECTION OF LEDS FOR THEIR PRODUCTS.

Specifically for the Cyan series on this product, the human eye is very sensitive to colour variations. It may appear to the customer that they do not appear the same between two cyan LED products. Despite any noticeable differences, **the peak wavelength variation DOES NOT EXCEED 10NM**.

Here are the following bandpass camera filters we recommend to fit with the Modular Ringlight:

- White LEDs: no filter required
- Infrared LEDs: LP 830 (http://midopt.com/filters/lp830/)
- Red LEDs: BP 635 (http://midopt.com/filters/bp635/)
- Cyan LEDs: BP 505 (http://midopt.com/filters/bp505/)

We advise using bandpass filters from MidOpt: www.midopt.com

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Other available documents:

- PDF, DWG, DXF, STEP DRAWINGS (on demand)
- USER GUIDE

