



Accessories catalogue





## ISCON - LED Illumination for Machine Vision

ISCON products feature high light intensity, a wide array of available models and sizes as well as excellent build quality. Thanks to many years of experience in the machine vision industry, ISCON provides consultancy in terms of selecting the best illuminator model. ISCON also ensures user safety by adhering to stringent standards concerning electrical device safety. In order to guarantee high light intensity and long operation time, ISCON illuminators exclusively use the highest quality LEDs. A durable aluminium casing ensures increased resistance to mechanical damage and fire protection. Beside the highest quality and safety, ISCON also ensures express order processing. To maintain high quality of our illuminators, each product is subjected to many hours of stress tests before being delivered to the customer. ISCON products are fully manufactured within the European Union and bear the CE certificate.

ISCON illuminators are designed to operate in industrial machine vision systems. Using the correct illuminator in a machine vision system allows any physical property of an object to be inspected, including size, shape or inscription. Thanks to high light intensity, ISCON illuminators perform excellently in vision systems with a short illumination time of the inspected object. A wide array of models, light colour and additional accessories ensures versatility of ISCON illuminators, which allows them to perform perfectly in all types of vision systems. At the client's request, it is possible to design and manufacture custom illuminators, tailored to specific requirements of a machine vision system.

### Selecting the correct ISCON illuminator for a vision system ensures:

- > maximising the contrast between the inspected object and the background
- > stable operating conditions of the machine vision system
- > minimising the impact of the surrounding ambient light.

### Scope of services:

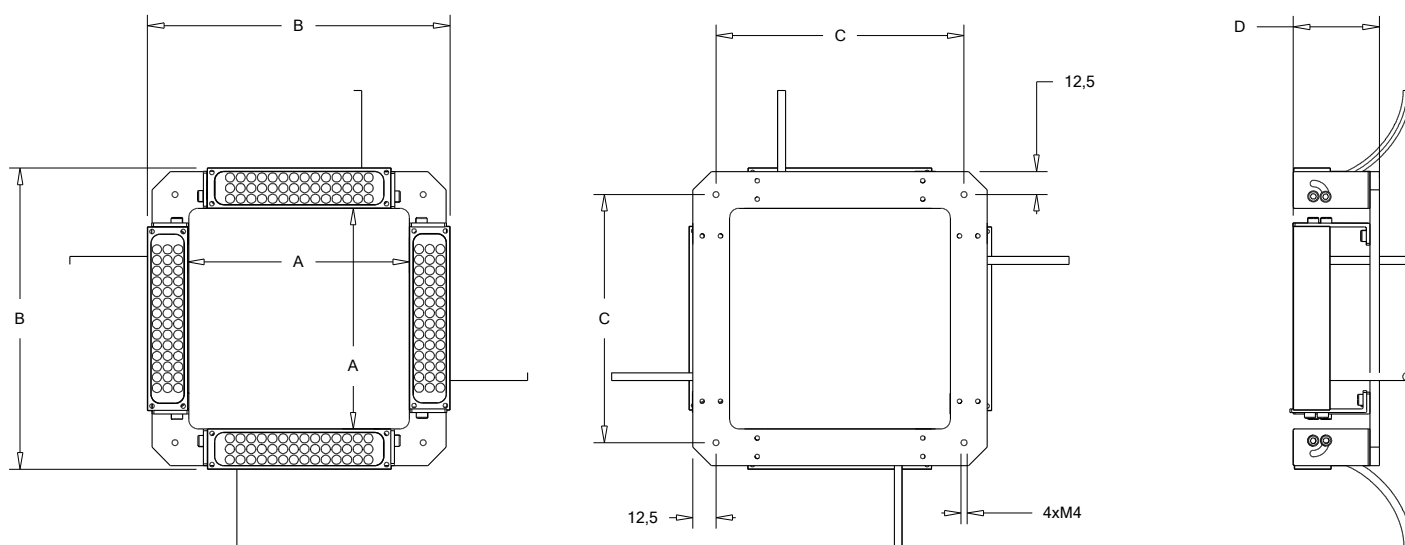
- > consultancy in terms of selecting the correct illuminator model
- > custom builds at the customer's request
- > free equipment rental for testing in actual conditions
- > technical documentation for products
- > warranty service and technical support.

## Accessories

4xIBL-70-20-24XXR-Verification Kit (Red,Blue,White,Green,Infrared).  
Adjustable bracket intended to mount 4 pieces of IBL-70-20-24XXR illuminator.

4xIBL-100-20-24XXR-Verification Kit (Red,Blue,White,Green,Infrared).  
Adjustable bracket intended to mount 4 pieces of IBL-100-20-24XXR illuminator.

4xIBL-140-20-24XXR-Verification Kit (Red,Blue,White,Green,Infrared).  
Adjustable bracket intended to mount 4 pieces of IBL-140-20-24XXR illuminator.



Basic references

	A [mm]	B [mm]	C [mm]	D [mm]
IBL-70-20-24XXR	60	115	85	47
IBL-100-20-24XXR	120	165	135	47
IBL-140-20-24XXR	160	205	180	47

Tolerance of  $\pm 0.5$  mm applies to all of the dimensions given.

IBL-70-20-24XXR, IBL-100-20-24XXR and IBL-140-20-24XXR are separate products intended to mount in Verification Kit bracket. They cannot be used as substitutes for IBL-70-20-24XX, IBL-100-20-24XX and IBL-140-20-24XX illuminators.



#### Additional cables and connectors

- M8, 3 pin male and female
- M8, 4 pin male and female
- M12, 4 pin male and female
- M12, 5 pin male and female



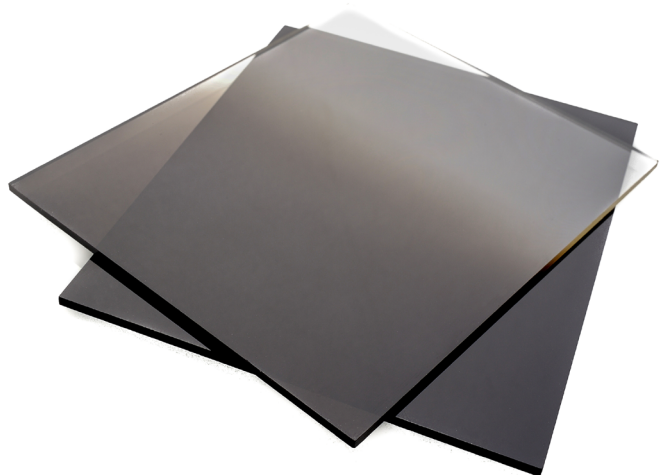
#### Diffusers and protective glasses mounted on an illuminator

- uniform light dispersion
- protected against dust and dirt
- high scratch resistance
- diffuser light transmission ~80%
- protective glass light transmission >99%
- install using M3x5 screws



#### Polarizing filters mounted on an illuminator or on a camera lens

- cut down reflections
- install using M3x5 screws



Bandpass filters mounted on an illuminator or on a camera lens

- limits the influence of ambient light
- blocks unwanted wavelengths
- mounted on a camera lens















Camera lenses



For additional information please contact us using contact form on our website [www.iscon.pl](http://www.iscon.pl) or via email [iscon@iscon.pl](mailto:iscon@iscon.pl).

## Warnings

	The surface of the illuminator may be hot.	<b>Do not touch during operation. HOT.</b>
	Do not look directly into the light source.	<b>Caution, LED radiation.</b>
	Keep away from fire and high temperatures (above 40°C).	<b>Keep away from fire.</b>
	Do not touch the device with wet hands.	<b>Risk of electric shock or short circuit.</b>
	Do not wet clean the device or use a pressure washer.	<b>Risk of electric shock or short circuit.</b>
	Connecting incorrectly may cause damage to the device.	<b>Connect according to the information on the device's casing.</b>
	The device is designed for operation in a dry room environment.	<b>Do not touch during operation. HOT.</b>
	Do not alter, cut or connect additional cables.	<b>Exclusively use the original cable.</b>
	Incorrect usage may lead to device damage.	<b>Installation and application exclusively in accordance with technical documentation.</b>
		<b>Connect the device only with the power source cut off.</b>
	Do not dismantle the device or remove original factory-made components.	<b>Disassembly and technical modifications are prohibited.</b>
		<b>Protect from fall damage, strong shocks or impact to the device casing.</b>

# WARRANTY TERMS AND CONDITIONS

**All ISCON products are subject to a 24-month warranty starting from the purchase date.**

The warranty is honoured under the following conditions:

- Presenting the purchase invoice as well as the device's serial number or sending the device to the ISCON company address.
- The device must not have been disassembled, modified or otherwise customised to the user's needs. Incorrect installation (drilling through the casing or installing using different screws and holes than the ones anticipated by the manufacturer) voids the warranty.
- The device is powered with a direct current voltage 24-30V. Providing a higher or lower voltage or an alternate current may damage the illuminator and is not covered by the warranty.
- The device is designed for operation inside a dry room environment. Using it outside of a closed room may lead to exposure to moisture followed by damage and is not covered by the warranty.
- The device should not be cleaned using: water, pressure washers, hot steam, mechanical components and chemical agents.
- The room in which the illuminator operates must not be air tight without any air exchange or ventilation.
- The ambient temperature must be within 5-40°C.



## Contact

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