MIC IP 7100i illuminator

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Invented for life

▶ IR Light (850 nm/940 nm) + White light LEDs

▶ Dynamic IR automatically adjusts the beam angle and intensity to match the camera's field of view

▶ Field-installable on MIC IP ultra 7100i and MIC IP starlight 7100i cameras only

▶ Rugged housing design, with IP68/Type 6P ingress rating, matches colors of MIC IP cameras

The illuminator accessory has a dual-pod housing incorporating a combination of long-life IR (850 nm/940 nm) + White light LEDs. The illuminator enables viewing of objects even in total darkness, ensuring high-quality images regardless of the lighting conditions.

Functions

Variable beam illumination

IR arrays with multiple beam angles (ranging from 16° to 47°) provide illumination of a wide area of view. The MIC camera can steer the IR beam dynamically to match the illumination intensity with the camera's field of view according to the zoom level.
Beam intensity is controlled automatically or manually, depending on user preference. Decreasing intensity reduces overexposure.
The patented, integrated Constant Light technology supplies a consistent level of illumination during the life of the product, even in changing temperatures.

IR Array

As ambient light decreases in the scene, the camera switches to monochrome mode and automatically activates the IR LEDs of the illuminator.
When IR illuminators are active, the IR focus correction feature is enabled automatically in the camera.
The 940 nm LEDs allow operators to illuminate near-range scenes with LEDs that human eyes cannot see.

White light mode

White light mode allows operators to capture full scene details in color.
Operators can turn the White light LEDs on and off as necessary, especially to use as a deterrent effect. Operators have the option to set automatic timeout of the White light mode. After this mode times out, the illuminator will operate in IR mode.
Operators can disable the White light functionality permanently or by sector in order to prevent activation in situations where White light might create a hazardous situation such as distracting a driver on a highway.

Easy installation

Install the illuminator accessory easily on a MIC IP ultra 7100i or MIC IP starlight 7100i camera mounted in upright, inverted, or canted orientation. The camera provides power to the illuminator. The illuminator does not need an additional power source.

Robust design rated to an industry-leading IP68, Type 6P, IK10

The vandal-resistant design integrates tough, polycarbonate windows attached to an aluminum body with a durable, powder coat paint. The illuminator is exceptionally resistant to high levels of wind, shock, and vibration. The camera and the attached illuminator

accessory have IP68/Type 6P dust and immersion ratings as well as IK10 impact rating. The ratings are standard for MIC products from Bosch.

Certifications and approvals

Safety	UL, CE (including EU eco-directive 2009/125/EC, and harmonized norm based on EU regulation 1194/2012)
Illumination safety	Meets Risk Group 1 exposure limits based on IEC 62471

Technical specifications

IR Array

	Narrow	Medium	Wide
Number of LEDs	12	4	4
Wavelength	850 nm	850 nm	940 nm
Vertical Beam Angle	15° FWHM	26° FWHM	45° FWHM
Horizontal Beam Angle	16° FWHM	28° FWHM	47° FWHM

White light Array

Number of LEDs	6
Color Temperature	5600-6300K
Vertical Beam Angle	15° FWHM
Horizontal Beam Angle	32° FWHM
Light intensity (3m)	1000 lx

IR Distance measurements, 850 nm

	MIC IP starlight 7100i	MIC IP ultra 7100i
Detection	550 m (1804 ft)	300 m (984 ft)
Classification	450 m (1476 ft)	250 m (820 ft)
Recognition	150 m (492 ft)	150 m (492 ft)
Identification	100 m (328 ft)	75 m (246 ft)

Electrical

Power Consumption	30 W (provided by the camera)

Environmental

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Cold Start-up Temperature	-40 °C (-40 °F) (Requires 60-minute warm-up prior to operation.)
Storage Temperature	-60 °C to +70 °C (-76 °F to +158 °F)
Humidity	0-100%

Wind Load	209 km/h (130 mph) (sustained) (Gusts up to 290 km/h (180 mph)) Camera + installed illuminator accessory: Coefficient of Drag: 1.370 Effective Projected Area (EPA): 0.089 m² (0.96 ft²) illuminator accessory only: Effective Projected Area (EPA): 0.019 m² (0.20 ft²)
Vibration	NEMA TS2 Section 2.2.8 Vibration - 5-30 Hz, (0.5G)
Shock	IEC 60068-2-27, Half Sine Impulse, 6ms, 40G NEMA TS 2 Section 2.2.9 Shock (Impact) Test Half Sine Impulse 11 ms, 10G

Ingress Protection	IEC 60529, IP68, Type 6P (when attached to camera)
External Mechanical Impact (IK Code or Impact rating)	IEC 62262, IK10 (when attached to a MIC camera)

Construction

Dimensions (W x H x D)	215 mm x 115 mm x 117 mm (8.5 x 4.5 x 4.6 in.)
Weight	1.2 kg (2.65 lb)
Construction Material	Cast aluminum with polycarbonate windows
Standard Colors	Black (RAL 9005), White (RAL 9010), or Grey (RAL 7001, available in specific regions only)
Standard Finish	Corrosion-resistant, powder coat paint, sand finish

Ordering information

MIC-ILB-400 Illuminator, white-IR light, black
Illuminator accessory for certain MIC IP cameras, IR (850 nm/940 nm) + White light LEDs
Black (RAL 9005). Sand finish.
Order number **MIC-ILB-400**

MIC-ILW-400 Illuminator, white-IR light, white
Illuminator accessory for certain MIC IP cameras, IR (850 nm/940 nm) + White light LEDs
White (RAL 9010). Sand finish.
Order number **MIC-ILW-400**

MIC-ILG-400 Illuminator, white-IR light, gray
Illuminator accessory for certain MIC IP cameras, IR (850 nm/940 nm) + White light LEDs
Grey (RAL 7001) color. Sand finish.
Order number **MIC-ILG-400**