



OMI OPTIKA Mérnökiroda Kft.
Engineering Ltd.

2022 CATALOG

OPTICAL SOLUTIONS FOR
THE INDUSTRY AND SCIENCE



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Engineering Ltd

OMI OPTIKA Mérnökiroda Kft

2004 ÓTA AZ IPARBAN
OPTIKAI MEGOLDÁSOK AZ IPAR
ÉS A MŰSZAKI ÉLET SZÁMÁRA

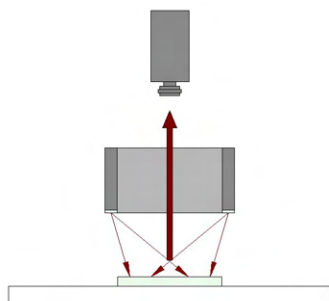
- gépi látás/Machine Vision optikai alkatrészei közvetlenül a gyártótól
- LED-megvilágítók (UV-VIS-NIR) a régió legnagyobb saját gyártású termékpalettájáról
- UV-C légfertőtlenítők
- 18 év tapasztalat, versenyképes árak
- tervezés, fejlesztés, gyártás



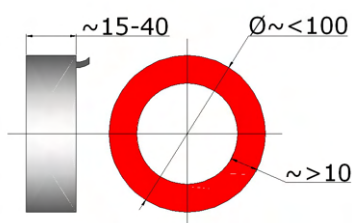
www.omi-optika.hu

info@omi-optika.hu
tel.: +36 1 392 2208

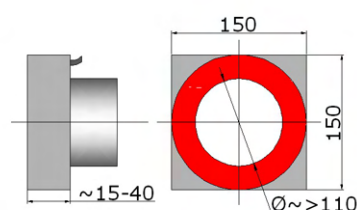
LED Ring Lights



Working example



Standard Ring Light



Large Area Ring Light

OMI LED Ring Lights provide direct illumination with high and even intensity on specular or opaque surfaces. Beam angle is factory adjusted according to customers' demand on working distance (WD) and illuminated area size.

Specifications:

- white, UV, blue, green, red or NIR light
- power requirement: 12V DC or 24V DC (please specify when ordering)
- available with power supply with optional trigger input
- continuous or strobe operation (depends on power supply)
- > 50.000 h lifetime
- robust, anodized alu or plastic housing
- designed to operate in harsh industrial environment
- please call for IP classified versions

LED Ring Lights

Product Number	Dimensions (mm)	Light emitting surface (mm)	Wave-length (nm)	Available IP protection
3-057-000	Ø100/Ø60x29	Ø100/Ø60	white	IP65
3-060-000	Ø100/Ø45x30	Ø100/Ø45	white	IP65
3-063-000	Ø80/Ø50x30	Ø80/Ø50	375	IP65

More standard and custom versions are available.

For specific wavelength, shape, power, dimension, housing etc. visit www.omi-optika.hu, send a message to info@omi-optika.hu or call +36-1-392-2208.



UV Ring Light, 395nm

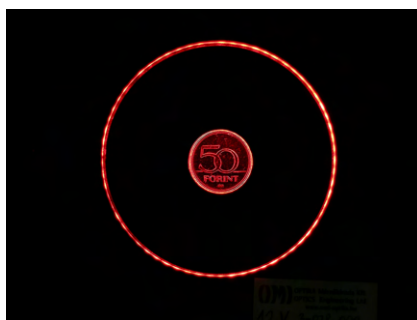
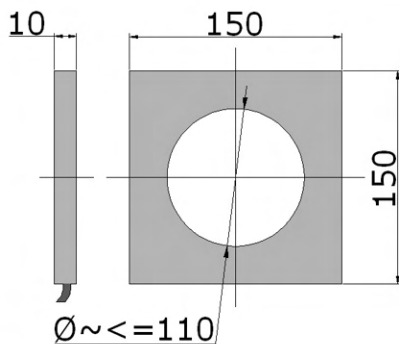
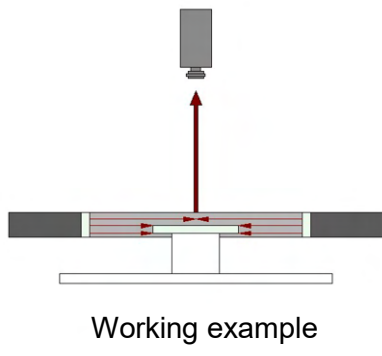


White Ring Light



High power white Ring Light

LED Darkfield Lights



LED Darkfield light

OMI LED Darkfield (Low Angle) Lights are suitable for highlighting surface roughness, surface structure, edges with the help of light nearly parallel with the surface.

Specifications:

- white, UV, blue, green, red or NIR light
- power requirement: 12V DC or 24V DC (please specify when ordering)
- available with power supply with optional trigger input
- continuous or strobe operation (depends on power supply)
- > 50.000 h lifetime
- robust, anodized alu or plastic housing
- designed to operate in harsh industrial environment
- please call for IP classified versions

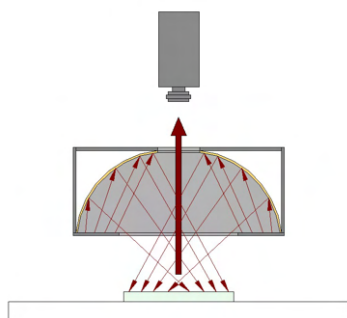
LED Darkfield (Low Angle) Lights

Product number	Dimensions (mm)	Illuminated area (mm)	Wave-length (nm)	Available IP protection
3-067-000	100x100x10/Ø60	Ø60	640	IP65
3-077-000	150x150x10/Ø100	Ø100	640	IP65
3-078-000	150x150x10/Ø100	Ø100	850	IP65

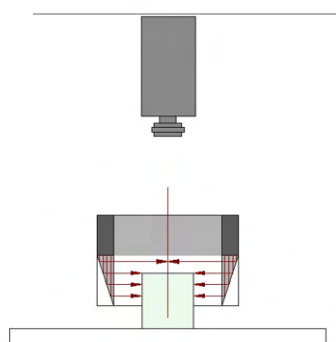
More standard and custom versions are available.

For specific wavelength, shape, power, dimension, housing etc. visit www.omi-optika.hu, send a message to info@omi-optika.hu or call +36-1-392-2208.

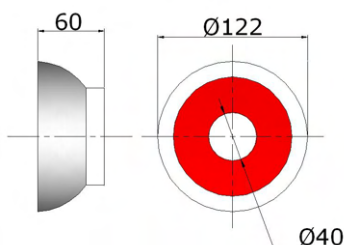
LED Dome Lights



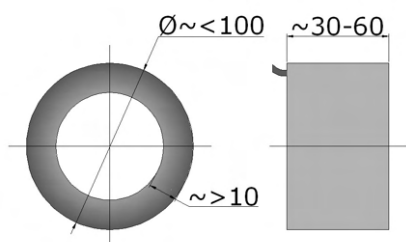
LED Dome Light



LED Low-Angle Dome Light



LED Dome Light
typical dimensions



LED Low-Angle Light typical dimensions

OMI LED Dome Lights ensure even, shadowless illumination for inspecting specular, uneven or curved surfaces. Shadows and reflections generated by the surface can be avoided this way.

Specifications:

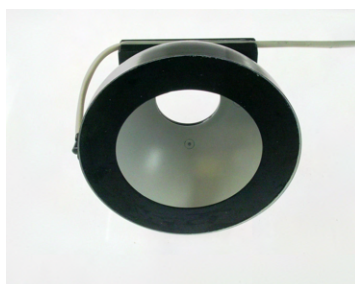
- white, UV, blue, green, red or NIR light
- power requirement: 12V DC or 24V (please specify when ordering)
- available with power supply with optional trigger input
- continuous or strobe operation (depends on power supply)
- > 50.000 h lifetime
- robust, anodized alu housing
- designed to operate in harsh industrial environment

LED Dome Lights

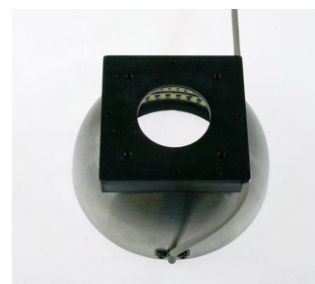
Product number	Dimensions (mm)	Illuminated surface (mm)	Wavelength (nm)
3-087-000	Ø70/Ø30x40	Ø50	White
3-090-000	Ø122/Ø80x60	Ø80	White

More standard and custom versions are available.

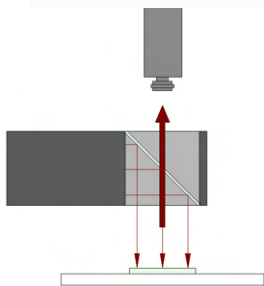
For specific wavelength, shape, power, dimension, housing etc. visit www.omi-optika.hu, send a message to info@omi-optika.hu or call +36-1-392-2208.



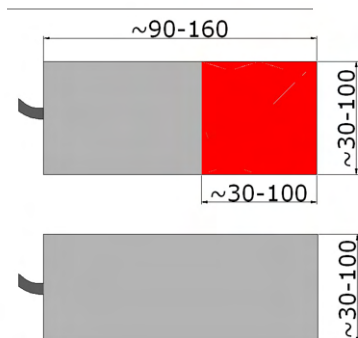
White compact LED Dom Light
OMI 3-090-000



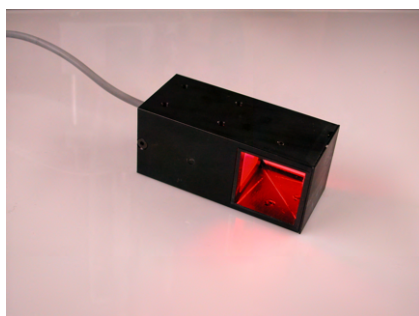
LED Coaxial Lights



LED Coaxial Lights



Typical dimensions



30x30 LED Coaxial Light



100x50 LED Coaxial Light

OMI LED Coaxial Lights ensure even, diffuse, axial illumination for inspecting glossy surfaces.

Specifications:

- white, UV, blue, green, red or NIR light
- power requirement: 12V DC or 24V DC (please specify when ordering)
- available with power supply with optional trigger input
- continuous or strobe operation (depends on power supply)
- > 50.000 h lifetime
- robust, anodized alu housing
- designed to operate in harsh industrial environment

LED Coaxial Lights

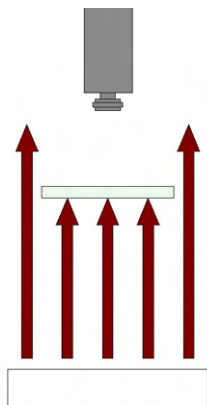
Product number	Dimensions (mm)	Light emitting surface (mm)	Wavelength (nm)
3-304-000	110x100x60	100x50	640
3-305-600	40x40x90	30x30	640
3-310-600	40x40x73	30x30	420
3-320-600	80x110x40	29x73	420

For specific wavelength, shape, power, dimension, housing etc. visit www.omi-optika.hu, send a message to info@omi-optika.hu or call +36-1-392-2208.

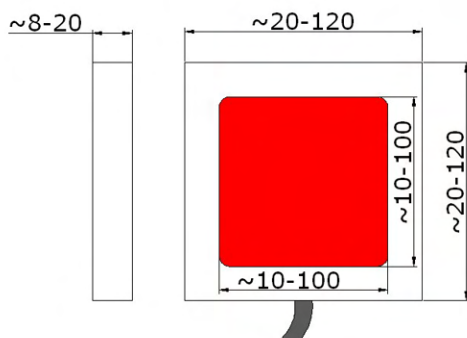
More standard and custom versions are available:



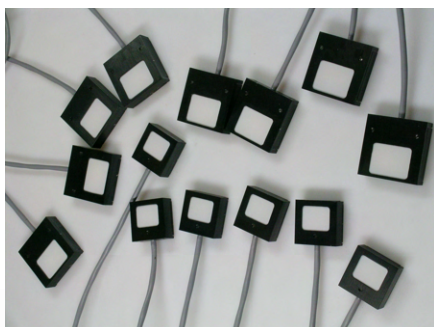
Standard LED Backlights



LED Back Lights



Typical dimensions



Slim Standard Backlights

OMI Standard LED Backlights ensure homogen illumination to display contours of objects sized up to 100 mm with high contrast. Also applicable as diffuse lighting.

Specifications:

- white, blue, green, red or NIR light
- homogen intensity distribution
- power requirement: 12V DC or 24V DC (please specify when ordering)
- available with power supply with optional trigger input
- continuous or strobe operation (depends on power supply)
- > 50.000 h lifetime
- robust, anodized alu housing
- glass or plastic illumination surface
- designed to operate in harsh industrial environment

Slim Standard Backlights:

- typical thickness: 8 to 10 mm
- illuminating area: $< \sim 50 \text{ mm} \times < \sim 50 \text{ mm}$

Thin Standard Backlights

- thickness: 12 mm
- illuminating area: $< \sim 50 \text{ mm} \times < \sim 50 \text{ mm}$

Thick Standard Backlights

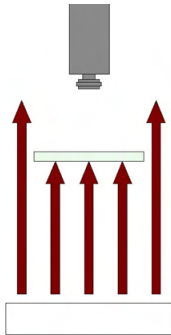
- typical thickness: 20 mm
- illuminating area: $< \sim 100 \text{ mm} \times < \sim 100 \text{ mm}$

Standard LED Backlights

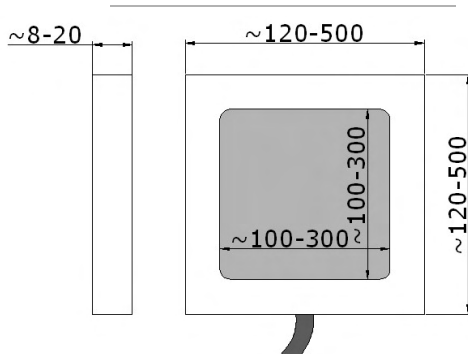
Product number	Dimensions (mm)	Light emitting surface (mm)	Wavelength (nm)	Available IP protection
3-201-000	100x100x20	80x80	640	IP65
3-124-000	40x40x12	24x24	red	IP65
3-125-000	50x40x12	34x34	red	IP65
3-148-000	33x40x8	24x24	red	IP65
3-216-600	170x220x16	150x200	white	IP65
3-216-700	100x300x16	80x280	white	IP65
3-220-000	50x65x20	35x60	white	IP65

More standard and custom versions are available.

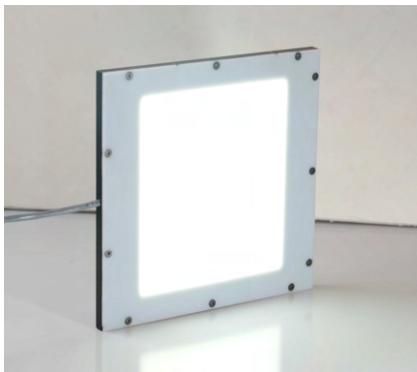
Large LED Backlights



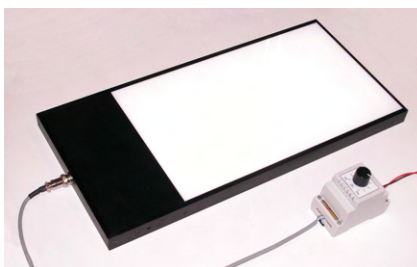
Large LED Back Lights



Typical dimensions



Slim Large LED Backlight



Standard Large Backlight

OMI Large LED Backlights ensure homogen illumination to display contours of objects larger than 100 mm with high contrast. Also applicable as diffuse lighting.

Specifications:

- white, blue, green, red or NIR light
- homogen intensity distribution
- power requirement: 12V DC or 24V DC (please specify when ordering)
- available with power supply with optional trigger input
- continuous or strobe operation (depends on power supply)
- > 50.000 h lifetime
- robust, anodized alu housing
- plastic illumination surface
- designed to operate in harsh industrial environment
- please call for IP classified versions

Standard Large LED Backlights:

- typical thickness: 25 mm
- light emitting surface: >~100 mm x >~100 mm

Slim Large LED Backlights (edge-lit):

- typical thickness: 10 mm
- light emitting surface: >~100 mm x >~100 mm

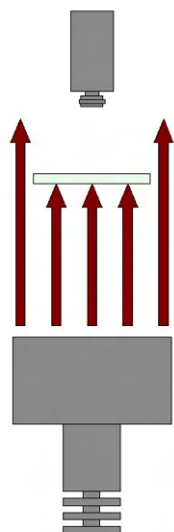
Large LED Backlights

Product number	Dimensions (mm)	Light emitting surface (mm)	Wavelength (nm)
3-207-000	130x190x25	100x160	Red
3-212-000	200x200x30	200x150	White
3-240-000	235x240x10	200x200	Red
3-241-000	180x180x10	120x140	White
3-242-000	133x113x10	100x80	White
3-246-000	440x240x10	400x200	Red
3-247-000	380x240x10	340x200	Red

More standard and custom versions are available.

For specific wavelength, shape, power, dimension, housing etc. visit www.omi-optika.hu, send a message to info@omi-optika.hu or call +36-1-392-2208.

LED Spot Backlights



LED SPOT Backlight

OMI LED SPOT Backlights offer extra large intensity for exposures in the microsecond range. Simple installation, no maintenance. Recommended also for limited space applications.

Specifications:

- white, blue, green, red or NIR light
- power consumption: max. 3 W
- homogeneous intensity distribution
- light emitting area: $\varnothing 35$ mm
- power requirement: constant current
- available with power supply with optional trigger input
- continuous or strobe operation (depends on power supply)
- > 50.000 h lifetime
- robust, anodized alu housing
- dimensions: $\varnothing 40/\varnothing 25 \times 50$ mm
- plastic or glass light emitting surface
- designed to operate in harsh industrial environment
- please call for IP classified versions

More standard and custom versions are available.

For specific wavelength, shape, power, dimension, housing etc. visit www.omi-optika.hu, send a message to info@omi-optika.hu or call +36-1-392-2208.

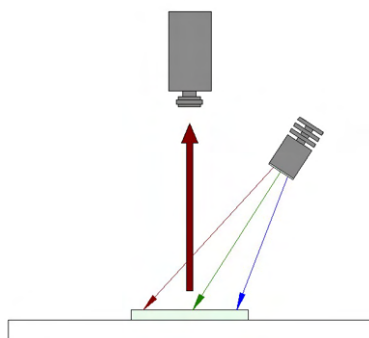


LED SPOT Backlight,
diam. 40mm



LED SPOT Backlight,
40x40mm

RGB LED Spot Lights



RGB LED SPOT Light



RGB LED SPOT Lights

OMI RGB LED SPOT Lights offer three separately controllable LED chips integrated into one compact modul. A wide range of visible color gamut or white light can be achieved with integrated color mixing optics. RGB LED SPOT Lights are also available in moduls to achieve greater intensity.

Specifications:

- white or coloured light
- power consumption: max. 3 W
- beam angle: 30°
- power requirement: constant current
- separately adjustable intensity for each chip
- available with power supply with optional trigger input
- continuous or strobe operation (depends on power supply)
- > 50.000 h lifetime
- robust, anodized alu housing
- compact size: $\varnothing 25 \times 50$ mm
- fixing with M4 screw
- designed to operate in harsh industrial environment

Typical field of use:

- enhancing contrast depending on the color of the workpiece in machine vision inspection
- illumination with variable color at laboratory tests
- museum display cases
- artworks
- illuminations for photography

3x1W RGB LED SPOT Lights

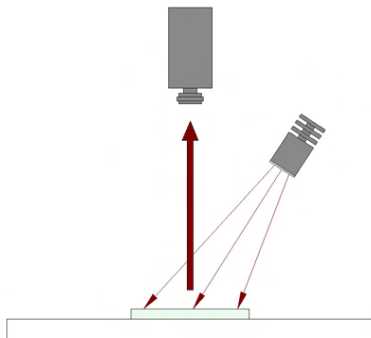
Product number	Dimensions (mm)	Light emitting surface (mm)	Wavelength (nm)	Available IP protection
3-403-000	$\varnothing 25 \times 45$	$\varnothing 24$	RGB	IP65
3-411-000	$\varnothing 25 \times 45 + 120$ (goose neck)	$\varnothing 24$	RGB	IP65
3-460-600	$\varnothing 90 \times \varnothing 50 \times 20$	Illuminated area: $\varnothing 50$	420 + White	

More standard and custom versions are available.

For specific wavelength, shape, power, dimension, housing etc. visit www.omi-optika.hu, send a message to info@omi-optika.hu or call +36-1-392-2208.



LED Spot Modul Lights



LED SPOT Light

OMI LED SPOT Modul Lights include multiple LED SPOT Lights offering extreme intensity with maintenance-free passive cooling and individually adjustable reflectors.

Specifications:

- power consumption: max. $n \times 3 \text{ W}$
- beam angle: from 10° up to 180°
- white, UV, blue, green, red, yellow or NIR light
- power requirement: constant current
- available with power supply with optional trigger input

LED SPOT Modul Lights

Product number	Dimensions (mm)	Light emitting surface (mm)	Wavelength (nm)	Available IP protection
3-402-200/ 1W/3W/5W	$\varnothing 80 \times 87$	$\varnothing 18,5 \times 4 \text{ pcs}$	any color	IP65
3-456-000/ 1W/3W/5W	$200 \times 50 \times 80$	170×30	any color	IP65

- continuous or strobe operation (depends on power supply)
- circle, ring or line layout
- $> 50.000 \text{ h}$ lifetime
- robust, anodized alu housing with robust fixing
- designed to operate in harsh industrial environment
- please call for IP classified versions



9x3W RGB Modul Light

More standard and custom versions are available.

For specific wavelength, shape, power, dimension, housing etc. visit www.omi-optika.hu, send a message to info@omi-optika.hu or call +36-1-392-2208.

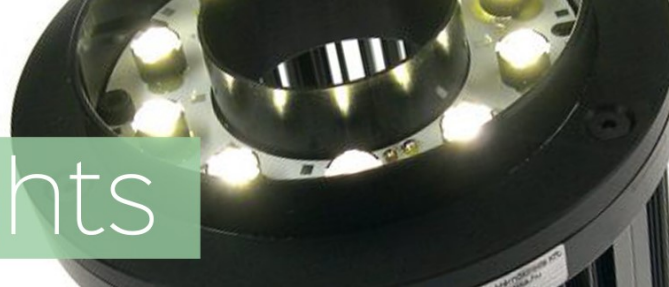


6x3W UV Modul Light



4x3W White Modul Light

High power LED lights



OMI High power LED light illuminators are the solution in case of requirements with extreme short exposure time or narrow beam angles with long working distance (WD).

Up to over 90,000 fps in high speed imaging or 6m WD achievable with OMI state-of-the-art illuminators. Product range expands continuously.

Specifications:

- power consumption: up to over 400W
- beam angle: from 6° up to 180°
- up to over 24000lm
- white, UV, blue, green, red, yellow or NIR light
- power requirement: constant current
- available with power supply with optional trigger input



High power LED lights

Product number	Dimensions (mm)	Light emitting surface (mm)	Wavelength (nm)	Available IP protection
3-219-000 260W	200x240x 81	200x200	White 4000K	IP 44
3-040-000 168W	1840x50x 65	1800	White 4000K	IP 44
3-462-100 28W	Ø130x98	Ø100/48	White 4000K	IP 44
3-430-000 51W	100x106x 98	Ø38	White 4000K	IP 44



More standard and custom versions are available:



LED lights for UV curing



OMI LED Lights for UV curing are optimal and efficient solutions for most UV curing tasks where fast and gentle curing process is needed.

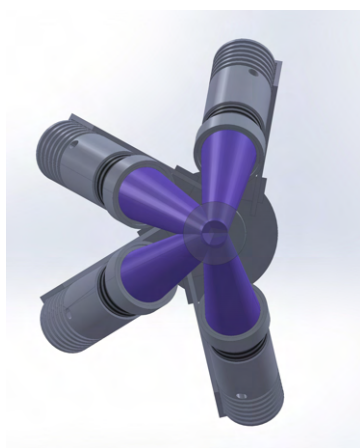
Low heat emission, well targeted beam, wavelength between 365-400nm.

Suitable for all UV adhesives or sealants. Precisely covered surface to be illuminated.

Call us to offer a solution for you!

Specifications:

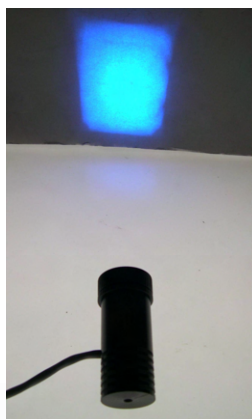
- UV light (365, 395, 400nm)
- power requirement: constant current
- available with specific power supply with optional trigger input
- continuous or strobe operation
- > 50.000 h lifetime
- robust, anodized alu housing
- designed to operate in harsh industrial environment



LED Lights for UV curing ($\lambda \leq 400\text{nm}$)

Product number	Dimensions (mm)	Illuminated area (mm)	Wavelength (nm)
3-402-044	Ø25x55	Ø35/WD100	365
3-426-700	Ø28xØ70	Ø15-80	395
3-426-800	Ø28xØ70	Ø15-80	370

More standard and custom versions are available:



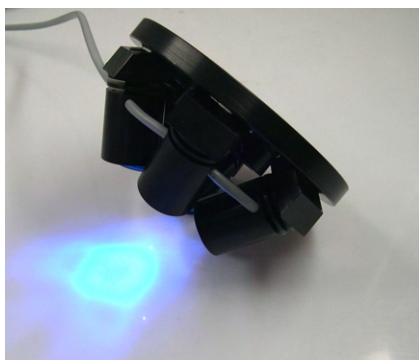
LED Lights for Fluor



LED ringlight, 365nm,
OMI 3-063-000



LED SPOT projector, 395nm
OMI 3-426-700



LED Module light, 395nm
OMI 3-461-000

OMI LED Lights for fluorescence imaging are highly efficient sources of UV or dark blue lights required for getting effective and high contrast fluorescent images.

High power LED sources in fluorescent illuminators with lifetime over 50,000 hours offer a compact and economical alternative to formely used expensive arc lamps with limited lifetime.

We offer standard and custom spot, ring and axial lights as well as replacement units for former fiber optical light sources between 365-450nm. High pass optical filters are also available with our fluorescence light systems.

High power fluorescent axial lights and fiber optical replacement lights are fan cooled assuring continuous operation. .

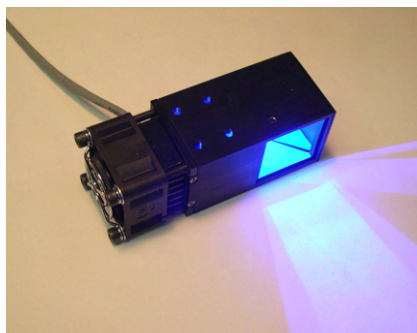
Specifications:

- UV or blue light (365, 395, 400, 420nm)
- power requirement: 24VDC or constant current
- available with specific power supply with optional trigger input
- continous or strobe operation
- > 50.000 h lifetime
- robust, anodized alu housing
- compact size
- designed to operate in harsh industrial environment

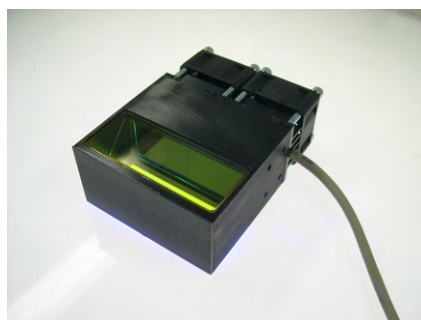
LED Lights for Fluorescence Imaging $\lambda \leq 400\text{nm}$ (available also with $\lambda > 400\text{nm}$)

Product number	Dimensions (mm)	Illuminated area (mm)	Wavelength (nm)
3-063-000	Ø80x30	Ø50	365
3-426-700	Ø28xØ70	Ø15-80	395
3-461-000	Ø125x55	Ø60	395

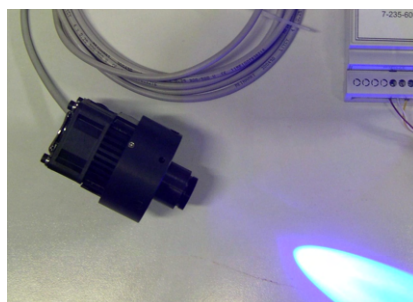
More standard and custom versions are available.



Coaxial LED Light, 420nm
OMI 3-310-600



Coaxial LED Light, 420nm
OMI 3-320-600



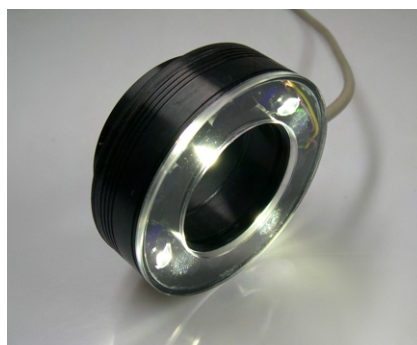
LED Lights for fiber optic replacement, 420nm
OMI 3-418-600



OMI 3-418-700



High power LED Ring Light, dual wavelength (white/420nm)
OMI 3-460-600



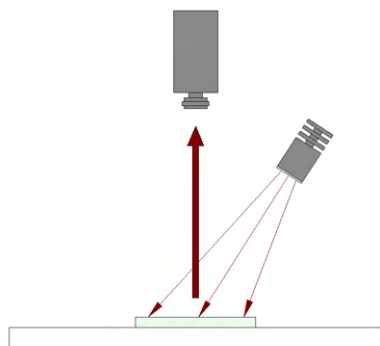
LED Lights for Fluorescence Imaging, $\lambda > 400\text{nm}$ (available also with $\lambda \leq 400\text{nm}$)

Product number	Dimensions (mm)	Illuminated area (mm)	Wavelength (nm)
3-460-600	$\varnothing 90 \times \varnothing 50 \times 20$	$\varnothing 50$	420 + White
3-310-600	40x40x73	30x30	420
3-320-600	80x110x40	29x73	420
3-418-600	$\varnothing 55$	fiber optics replacement	420
3-418-700	$\varnothing 25$	fiber optics replacement	420

More standard and custom versions are available.

For specific wavelength, shape, power, dimension, housing etc. visit www.omi-optika.hu, send a message to info@omi-optika.hu or call +36-1-392-2208.

LED Spot Lights



LED SPOT Light



LED SPOT Lights



LED SPOT Light with
gooseneck

OMI LED SPOT Lights including one power LED offer high intensity for a wide range of application with maintenance-free passive cooling. Most popular.

Specifications:

- white, blue, green, red or NIR light
- power consumption: max. 3 W
- beam angle: 8°, 30°, 50° or 10°x50°
- power requirement: constant current
- available with power supply with optional trigger input
- continuous or strobe operation (depends on power supply)
- > 50.000 h lifetime
- robust, anodized alu housing
- compact size: Ø25 x 50 mm
- fixing with M4 screw
- cable outlet on the side
- designed to operate in harsh industrial environment
- please call for IP classified versions

Typical field of use:

- products, workpieces
- laboratory tests
- machine vision measurements, calibrations
- microscopic inspections
- workpieces to be machined (eg. milling, lathing etc.)

LED SPOT Lights

Product number	Dimensions (mm)	Light emitting surface (mm)	Wavelength (nm)	Available IP protection
3-402-000/ 1W/3W/5W	Ø25x45	Ø18,5	any color	IP65
3-410-000/ 1W/3W/5W	Ø25x45+120 (goose neck)	Ø18,5	any color	IP65

More standard and custom versions are available.

For specific wavelength, shape, power, dimension, housing etc. visit www.omi-optika.hu, send a message to info@omi-optika.hu or call +36-1-392-2208.

LED Spot Projectors

OMI LED SPOT Projector Lights illuminate workpieces of any size with a Structured Light. Usually optimised for a given distance, but also available with focusable optics.

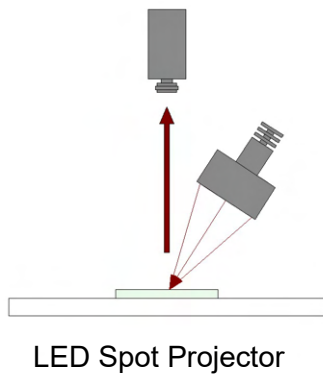
We offer LED SPOT Projectors to project light spots with definite size or diameters, or with any pattern e.g. for 3D scanning.

Specifications:

- power consumption: max. 3 W
- projecting distance: max. ~3 m
- white, blue, green, red or NIR light
- available with custom size or pattern (Structured Light)
- even intensity distribution
- power requirement: constant current
- available with power supply with optional trigger input
- continuous or strobe operation (depends on power supply)
- > 50.000 h lifetime
- robust, anodized alu housing
- compact size: $\varnothing 25 \times 50$ mm
- fixing with M4 screw
- cable outlet on the side
- designed to operate in harsh industrial environment
- please call for IP classified versions

More standard and custom versions are available.

For specific wavelength, shape, power, dimension, housing etc. visit www.omi-optika.hu, send a message to info@omi-optika.hu or call +36-1-392-2208.



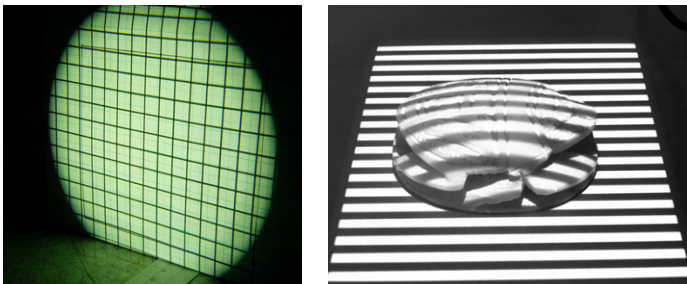
LED Spot Projector



LED SPOT Projector with adjustable focus



LED SPOT Projector with fixed focus

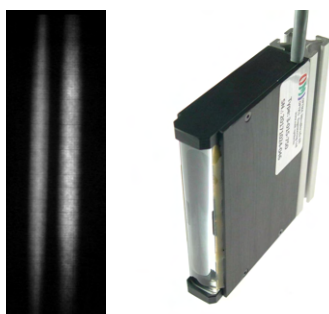
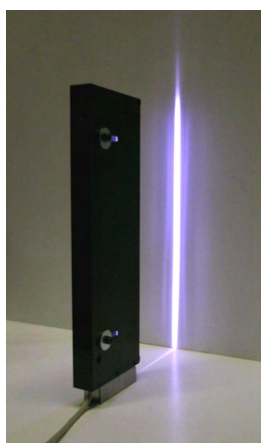


Projected grid and lines for 3D scanning

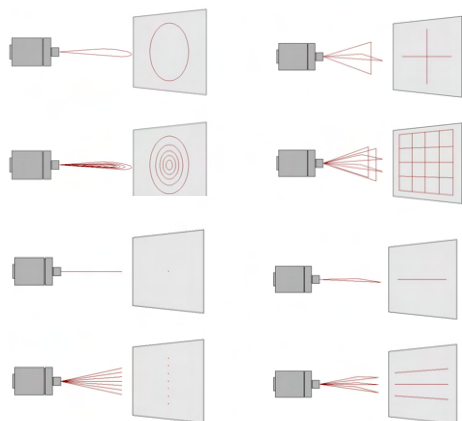


LED SPOT Projector with interchangeable C-mount lens

LED Line Lights



LED Line Lights with single or dual wavelength



Typical Laser Patterns

OMI LED Line Lights illuminate objects, signs, labels, or workpieces passing in front of a sensor e.g. a line-camera. Direct line illumination is a special lighting used in industrial machine vision automated inspections.

Specifications:

- LED light source projecting a straight line with high intensity
- plastic cylindrical lens
- white, blue, green, red or NIR light
- compact, anodized alu housing
- fixing with M5 screws
- working distance: 50-200 mm, focusable or fix
- > 50.000 h lifetime
- length of illuminated area: 50-300 mm
- width of illuminated area: 3-20 mm
- power requirement: 24 VDC
- available with power supply with optional trigger input
- continuous or strobe operation (depends on power supply)

LED Line Lights

Product number	Dimensions (mm)	Light emitting surface (mm)	Wavelength (nm)
3-015-000	250x60x20	250x10	White
3-015-750	90x87x20	80x15	NIR + White

Professional Laser Illuminations

Specifications:

- diffractive optics without moving parts, maintenance-free
- structured laser light
- focusable
- power requirement: 5V DC
- available with power supply with optional trigger input
- professional semiconductor laser chips
- designed to operate in harsh industrial environment
- robust, anodized aluminium housing
- available with adjustable fixing

Typical patterns:

- dot, dot-series
- line, parallel lines
- cross, grid
- circle, concentric circles
- custom patterns are also available on demand

More standard and custom versions are available.

For specific wavelength, shape, power, dimension, housing etc. visit www.omi-optika.hu, send a message to info@omi-optika.hu or call +36-1-392-2208

LED Light Sources for Fibers



OMI LED Light Sources for Fiber Optics offer longlife illumination for fiber optics application. Tens of thousands of hours lifetime, dimmable, constant color temperature.

Flexible or semi-rigid fibers are available with custom length and with focusable optics.

Specifications:

- nominal max. luminous flux: >1500 lm
- dimming with front panel knob or via Trigger Input
- dimensions: 250 x 220 x 117 mm
- power source: 230 V AC, max. 50 W
- short-driven external trigger
- thermal protection with internal heatswitch
- weight: 2,6 kg
- > 50.000 h lifetime
- available with custom wavelength LEDs

LED Light Source for Fiber Optics

Product number	Dimensions (mm)	Fiber connection dimension	Fiber diameter
3-650-000	250x220x117 mm	Ø14x37 mm	Ø6 mm
3-650-500	250x220x117 mm	Ø8,4x30 mm	Ø1 mm

More standard and custom versions are available.

For specific wavelength, shape, power, dimension, housing etc. visit www.omi-optika.hu, send a message to info@omi-optika.hu or call +36-1-392-2208.

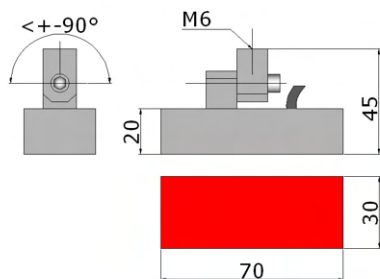


LED Light Sources for
Fiber Optics



Focusable Optics

LED Matrix Lights

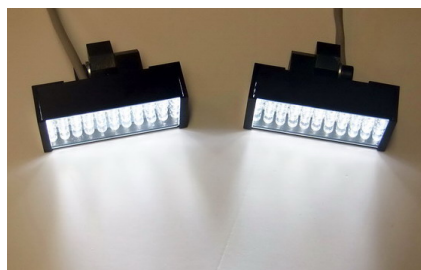


Typical dimensions

OMI LED Matrix Lights illuminate objects, signs, labels or workpieces with light emitted by a large surface area. This kind of direct illumination offers high intensity for a wide range of application.

Specifications:

- white, UV, blue, green, red or NIR light
- power source: 12V DC or 24V DC
- available with power supply with optional trigger input
- continuous or strobe operation (depends on power supply)
- > 50.000 h lifetime
- robust, anodized alu housing
- compact size
- fixing with M4 screw
- designed to operate in harsh industrial environment



White LED Matrix Lights

LED Matrix Lights

Product number	Dimensions (mm)	Light emitting surface (mm)	Wavelength (nm)
3-005-000	40x20x22	32x16	640
3-001-000	70x30x45	64x26	630
3-002-000	70x30x45	64x26	880
3-003-000	70x30x45	64x26	white

More standard and custom versions are available.

For specific wavelength, shape, power, dimension, housing etc. visit www.omi-optika.hu, send a message to info@omi-optika.hu or call +36-1-392-2208.



NIR LED Matrix Lights

LED Power Supplies



Power Supply with built in knob



Power Supply with multiple outputs



Power Supply with trigger input and multiple outputs



Power Supply for high power LED Lights

OMI LED Power Supplies and Drivers are available in several versions depending on user requirements: dimmable, triggerable, with one or more outputs, typically with DIN rail mounting.

Because of the varied fields of applications, details must be specified when ordering.

Specifications:

- switched-mode circuits
- available dimmable with built in knob or analog signal
- available with external trigger input
- typical versions:
 - o 12V DC or 24V DC input, constant current output
 - o 230V AC input, constant current output
 - o 230V AC input, 5V DC, 12V DC or 24V DC output
- available with multiple outputs
- DIN rail mounting
- flickerfree technology

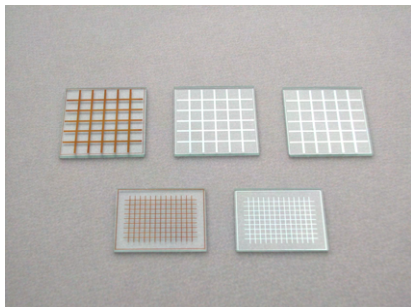
LED Power Supplies

Product number	Input / Output	Dimming/Triggering
7-219-600	24 VDC / 24 VDC	trigger + knob
7-219-700	24 VDC / 12 VDC	trigger + knob
7-227-600	24 VDC / 700 mA	trigger + knob
7-227-700	24 VDC / 700 mA	trigger
7-235-600	24 VDC / 950 mA + 24 VDC	trigger
7-235-900	24 VDC / 1500 mA	built in knob

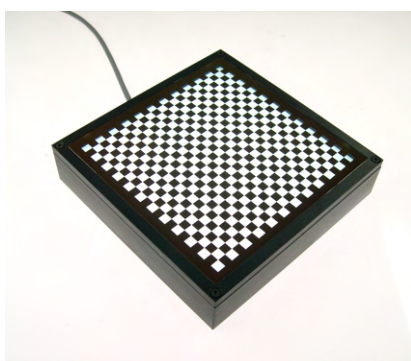
More standard and custom versions are available.

For specific wavelength, shape, power, dimension, housing etc. visit www.omi-optika.hu, send a message to info@omi-optika.hu or call +36-1-392-2208.

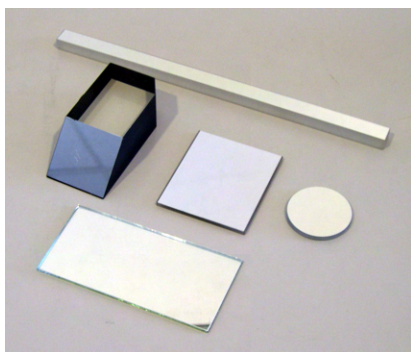
Optical Accessories



Optical microstructures
for calibration



Chessboard calibration plate
with back illumination



Optical mirrors



C-mount spacers

Optical microstructures for calibration

We offer optical microstructures for calibration and measurement purpose. Micrometer-range precision, microlitographic technology. Please call for standard and custom figures and substrates. Large printed versions are available as well.

Optical Mirrors

We manufacture and refurbish front or rear surface aluminium coated mirrors.

Extension tubes, spacer rings

We manufacture and offer extension tubes and spacers for C-mount lenses and for other kind of industrial optics. Custom length and versions with electronically isolated threads are available as well.

Optical filters for Machine Vision

Low pass, high pass, bandpass, polarisation and other filters are available.

More standard and custom versions are available.

For specific wavelength, shape, power, dimension, housing etc. visit www.omi-optika.hu, send a message to info@omi-optika.hu or call +36-1-392-2208.

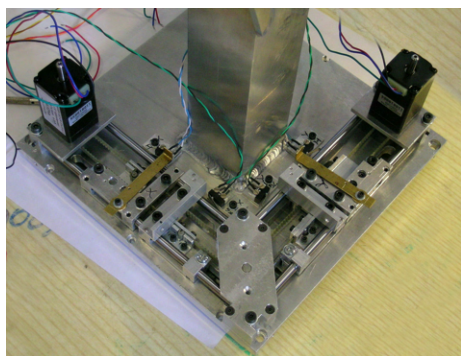


Optical filters

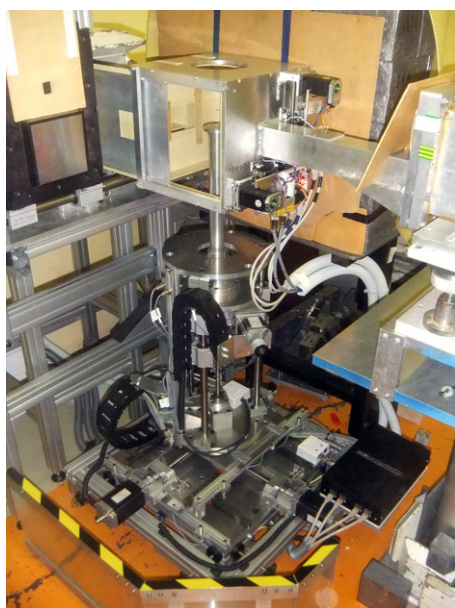
Maintenance, repair, renovation



JT60-SA optics for plasma diagnostics



High precision aperture for neutron imaging



PGAA – NIPS neutron tomograph

Optical and optomechanical systems and devices

We design, develop, produce and install optical and optomechanical devices and equipments.

Please call for in-line machine vision equipments for non-contact quality inspection.

We design, develop and manufacture optomechanical devices for research and science in **Plasma Diagnostics** and **Neutron Imaging**:



Restoring and refurbishing optical devices

Restoring, repairing

We restore historical optical devices and instruments, achieving the original and functional condition: surveying instruments e.g. theodolites, old binoculars, astronomical telescopes etc. We repair, renew, restore and clean binoculars, riflescopes and other optical devices.

Refurbishing, modernization

We refurbish, functionally repair, renew and calibrate optical devices, instruments and tools by repairing or replacing the optical, mechanical and electrical components: industrial microscopes, optical instruments, projection microscopes etc.

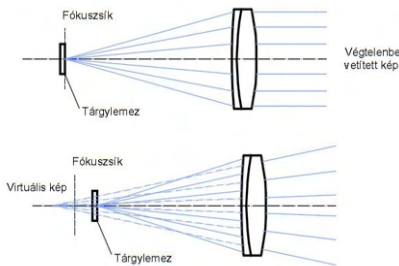


Refurbished X-Y measuring microscope



Renewed heliometer Fraunhofer 1817

Optomechatronic instruments



Optical and optomechanical instruments

We design, develop, produce and install optical instruments for custom requirements.

Focusable collimator for scope adjustment

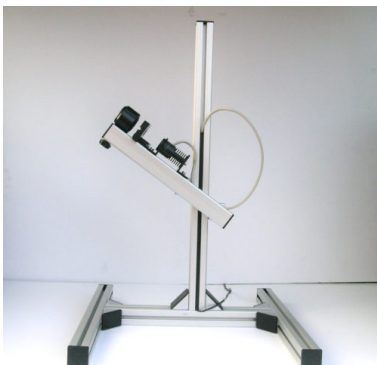
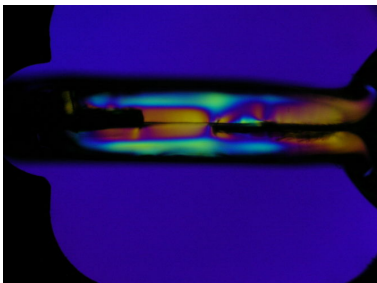
OMI 8-009-000 focusable collimator is used for evaluation of parallax error in riflescopes. The virtual image of the reticle is observed through the eyepiece and serve as a reference for parallax correction.



Focusable collimator

Polariscope examining stress-induced birefringence in glass bulb cap

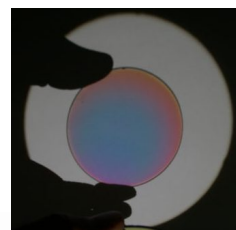
OMI 8-030-000 polariscope is suitable to clearly show the mechanical stress induced birefringence in bulb caps.



Polariscope

Multifunctional control LED lamp

OMI 3-447-600 multifunctional LED lamp serves as an efficient tool in optical cosmetic defect and coating shade visualisation. Emitting a parallel homogeneous beam of high intensity is an efficient aid in quality control workshops.





UV-C air purifier

UV-C air purifier device family

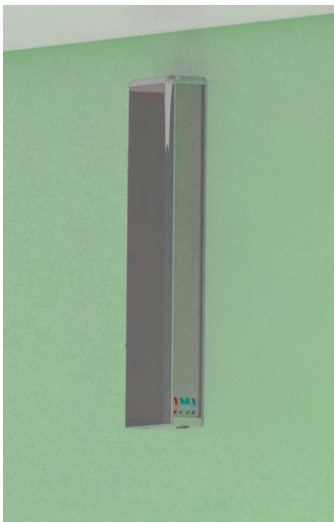
UV-C is a proven disinfection technology which aim is to reduce the concentration of viruses, bacteria and other microorganisms present in the air that pose a risk to human health. OMI UV-C devices operate with a 254 nm dominant wavelength which inactivates the DNA of microorganisms, thus inhibits their growth. The purifiers are primarily recommended for offices, schools, healthcare facilities, waiting rooms, changing rooms in swimmingpools and sport complexes and other closed or poorly ventilated public areas. Since the technology is ozone-free, it can be used safely with human presence.

OMI 7-190-000 with 300W UV-C power attached to any air conditioning indoor unit appropriate to manage a room up to 120m².

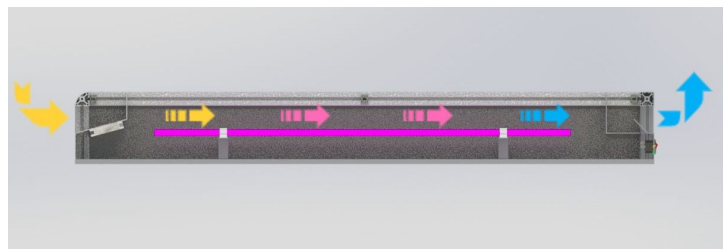
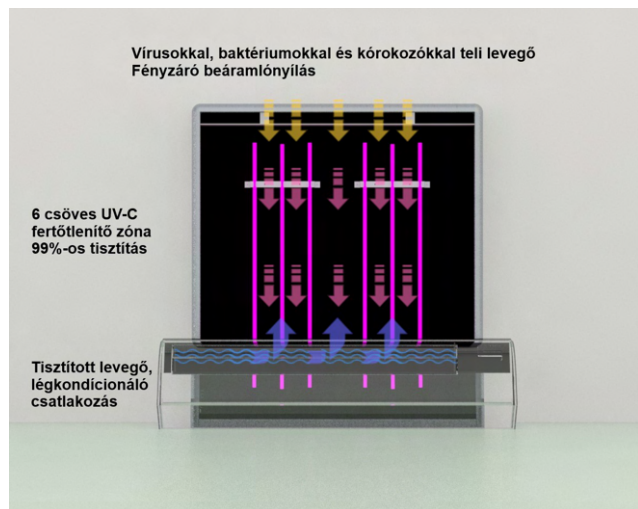
OMI 7-180-000 with 150W UV-C power with built-in fans attached to the wall appropriate to manage any room up to 60m².



OMI 7-190-000 UV-C air purifier
attached to AC indoor unit



OMI 7-180-000 UV-C air purifier
with built-in fan attached to the wall



„A projekt az Innovációs és Technológiai Minisztérium Nemzeti Kutatási, Fejlesztési és Innovációs Alapból nyújtott támogatásával, a Nemzeti Kutatási, Fejlesztési és Innovációs Hivatal által kibocsátott támogatói okirat alapján valósul meg.”

NEMZETI KUTATÁSI, FEJLESZTÉSI
ÉS INNOVÁCIÓS HIVATAL

AZ NKFI ALAPBÓL
MEGVÁLÓSULÓ
PROJEKT

OMI OPTIKA Mérnökiroda Kft.
info@omi-optika.hu

OMI OPTICS Engineering Ltd.

TEL.: +36 1 392 2278
+36 30 950 1135

Machine vision lenses



Machine

- Production
- Control
- Logistics

Vision

- Up to 12 MP
- Compact design
- Ultra-low distortion

Systems

- CMOSIS compatible
- 4K Board
- Infra-Red Solutions



Telecentric Lenses

Macro Optics

360° Optics



computar
OPTO ENGINEERING
THE TELECENTRIC COMPANY

tel.: +36 1 392 2208



A XXVI. Magyar Innovációs Nagydíj bírálóbizottsága
az OPTIKA Mérnökiroda Kft.-t
elismerésben részesíti a 2017. évben megvalósított

„Új fejlesztésű, multispektrális és
fluoreszcens LED megvilágítások
ipari képfeldolgozási feladatokhoz”

c. jelentős innovációért.

2018. március 28.

Dr. Pálfi Zoltán
Nemzeti Kutatási, Fejlesztési és
Innovációs Hivatal elnöke,
a bírálóbizottság elnöke

Péter Závorszky Péter
akadémikus
a Magyar Innovációs Alapítvány
elnöke

Dr. Fehér János
a Magyar Innovációs Szövetség tiszb. elnöke,
a szervezőbizottság elnöke

- UV LED-világítók, szűrők
fluoreszcens alkalmazásokhoz
és UV-ragasztáshoz
- LED-fényforrások száloptikai
megvilágításhoz
- kamerás rendszerek,
optikai berendezések
- C-menetes objektívek, közgyűrűk,
szűrők, optikai tükrök,
műszerüvegek



OPTO ENGINEERING és COMPUTAR objektívek hazai forgalmazója

- ipari objektívek
akár 12 MP-ig
alacsony torzítással



- SWIR objektívek

- telecentrikus
objektívek



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