OMI OPTIKA
Mérnökiroda Kft.
Engineering Ltd.

2018 CATALOG

www.omi-optika.hu
OMI OPTIKA Mérnökiroda Kft.

- ipari képfeldolgozás optikai eszközei

- ipari LED megvilágítók (UV-VIS-NIR) automatizált vizsgálatokhoz

- optikai/kamerás mérőrendszerek kivitelezése

- tervezés, fejlesztés, gyártás

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

2004 óta az Iparban és a Műszaki Élet Számára
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**

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Dimensions (mm)</th>
<th>Light emitting surface (mm)</th>
<th>Wavelength (nm)</th>
<th>Available IP protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-057-000</td>
<td>Ø100/Ø60x29</td>
<td>Ø100/Ø60</td>
<td>white</td>
<td>IP65</td>
</tr>
<tr>
<td>3-060-000</td>
<td>Ø100/Ø45x30</td>
<td>Ø100/Ø45</td>
<td>white</td>
<td>IP65</td>
</tr>
<tr>
<td>3-063-000</td>
<td>Ø80/Ø50x30</td>
<td>Ø80/Ø50</td>
<td>375</td>
<td>IP65</td>
</tr>
</tbody>
</table>

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 +36-1-392-2278.
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

<table>
<thead>
<tr>
<th>Product number</th>
<th>Dimensions (mm)</th>
<th>Illuminated area (mm)</th>
<th>Wave-length (nm)</th>
<th>Available IP protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-067-000</td>
<td>100x100x10/Ø60</td>
<td>Ø60</td>
<td>640</td>
<td>IP65</td>
</tr>
<tr>
<td>3-077-000</td>
<td>150x150x10/Ø100</td>
<td>Ø100</td>
<td>640</td>
<td>IP65</td>
</tr>
<tr>
<td>3-078-000</td>
<td>150x150x10/Ø100</td>
<td>Ø100</td>
<td>850</td>
<td>IP65</td>
</tr>
</tbody>
</table>

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 +36-1-392-2278.
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

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 +36-1-392-2278.

<table>
<thead>
<tr>
<th>Product number</th>
<th>Dimensions (mm)</th>
<th>Illuminated surface (mm)</th>
<th>Wavelength (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-087-000</td>
<td>Ø70/Ø30x40</td>
<td>Ø50</td>
<td>White</td>
</tr>
<tr>
<td>3-090-000</td>
<td>Ø122/Ø80x60</td>
<td>Ø80</td>
<td>White</td>
</tr>
</tbody>
</table>

LED Dome Light

LED Low-Angle Dome Light

LED Dome Light typical dimensions

LED Low-Angle Light typical dimensions

White compact LED Dom Light
OMI 3-090-000
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

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### LED Coaxial Lights

<table>
<thead>
<tr>
<th>Product number</th>
<th>Dimensions (mm)</th>
<th>Light emitting surface (mm)</th>
<th>Wavelength (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-304-000</td>
<td>110x100x60</td>
<td>100x50</td>
<td>640</td>
</tr>
<tr>
<td>3-305-600</td>
<td>40x40x90</td>
<td>30x30</td>
<td>640</td>
</tr>
<tr>
<td>3-310-600</td>
<td>40x40x73</td>
<td>30x30</td>
<td>420</td>
</tr>
<tr>
<td>3-320-600</td>
<td>80x110x40</td>
<td>29x73</td>
<td>420</td>
</tr>
</tbody>
</table>

More standard and custom versions are available.

For specific wavelength, shape, power, dimension, housing etc. visit [www.omi-optika.hu](http://www.omi-optika.hu), send a message to info@omi-optika.hu or call +36-1-392-2278.
Standard LED Backlights ensure homogenous 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
- homogenous 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: <~50 mm x < ~50 mm

Thin Standard Backlights
- thickness: 12 mm
- illuminating area: <~50 mm x < ~50 mm

Thick Standard Backlights
- typical thickness: 20 mm
- illuminating area: <~100 mm x < ~100 mm

More standard and custom versions are available.

<table>
<thead>
<tr>
<th>Product number</th>
<th>Dimensions (mm)</th>
<th>Light emitting surface (mm)</th>
<th>Wavelength (nm)</th>
<th>Available IP protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-201-000</td>
<td>100x100x20</td>
<td>80x80</td>
<td>640</td>
<td>IP65</td>
</tr>
<tr>
<td>3-124-000</td>
<td>40x40x12</td>
<td>24x24</td>
<td>red</td>
<td>IP65</td>
</tr>
<tr>
<td>3-125-000</td>
<td>50x40x12</td>
<td>34x34</td>
<td>red</td>
<td>IP65</td>
</tr>
<tr>
<td>3-148-000</td>
<td>33x40x8</td>
<td>24x24</td>
<td>red</td>
<td>IP65</td>
</tr>
<tr>
<td>3-216-600</td>
<td>170x220x16</td>
<td>150x200</td>
<td>white</td>
<td>IP65</td>
</tr>
<tr>
<td>3-216-700</td>
<td>100x300x16</td>
<td>80x280</td>
<td>white</td>
<td>IP65</td>
</tr>
<tr>
<td>3-220-000</td>
<td>50x65x20</td>
<td>35x60</td>
<td>white</td>
<td>IP65</td>
</tr>
</tbody>
</table>
Large LED Backlights ensure homogenous 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
- homogenous 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

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

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 +36-1-392-2278.
LED SPOT Backligths 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
- homogene intensity distribution
- light emitting area: ø35 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: ø40/ø25x50 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 +36-1-392-2278.
RGB LED SPOT Lights offer three separately controllable LED chips integrated into one compact module. 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 modules 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: ø25 x 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

<table>
<thead>
<tr>
<th>Product number</th>
<th>Dimensions (mm)</th>
<th>Light emitting surface (mm)</th>
<th>Wavelength (nm)</th>
<th>Available IP protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-403-000</td>
<td>ø25x45</td>
<td>ø24</td>
<td>RGB</td>
<td>IP65</td>
</tr>
<tr>
<td>3-411-000</td>
<td>ø25x45+120 (goose neck)</td>
<td>ø24</td>
<td>RGB</td>
<td>IP65</td>
</tr>
<tr>
<td>3-460-600</td>
<td>ø90x50x20</td>
<td>Illuminated area: ø50</td>
<td>420 + White</td>
<td>IP65</td>
</tr>
</tbody>
</table>

More standard and custom versions are available.

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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 x 3 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
- continuous or strobe operation (depends on power supply)
- circle, ring or line layout
- > 50.000 h lifetime
- robust, anodized alu housing with robust fixing
- 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 +36-1-392-2278.

**LED SPOT Modul Lights**

<table>
<thead>
<tr>
<th>Product number</th>
<th>Dimensions (mm)</th>
<th>Light emitting surface (mm)</th>
<th>Wavelength (nm)</th>
<th>Available IP protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-402-200/1W/3W/5W</td>
<td>Ø80x87</td>
<td>Ø18,5x4pcs</td>
<td>any color</td>
<td>IP65</td>
</tr>
<tr>
<td>3-456-000/1W/3W/5W</td>
<td>200x50x80</td>
<td>170x30</td>
<td>any color</td>
<td>IP65</td>
</tr>
</tbody>
</table>

**9x3W RGB Modul Light**

**6x3W UV Modul Light**

**4x3W White Modul Light**
LED Lights for Fluorescence Imaging

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 formerly 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
- continuous or strobe operation
- > 50,000 h lifetime
- robust, anodized alu housing
- compact size
- designed to operate in harsh industrial environment

<table>
<thead>
<tr>
<th>Product number</th>
<th>Dimensions (mm)</th>
<th>Illuminated area (mm)</th>
<th>Wavelength (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-063-000</td>
<td>Ø80x30</td>
<td>Ø50</td>
<td>365</td>
</tr>
<tr>
<td>3-426-700</td>
<td>Ø20xØ60x20</td>
<td>Ø20-60</td>
<td>395</td>
</tr>
<tr>
<td>3-461-000</td>
<td>Ø125x55</td>
<td>Ø60</td>
<td>395</td>
</tr>
</tbody>
</table>

More standard and custom versions are available.
**LED Lights for Fluorescence Imaging, \( \lambda > 400 \text{nm} \) (available also with \( \lambda \leq 400 \text{nm} \))**

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

More standard and custom versions are available.

For specific wavelength, shape, power, dimension, housing etc. visit [www.omi-optika.hu](http://www.omi-optika.hu), send a message to info@omi-optika.hu or call +36-1-392-2278.
LED SPOT Lights including one power LED offer high intensity for a wide range of application with maintenance-free passive cooling.

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

<table>
<thead>
<tr>
<th>Product number</th>
<th>Dimensions (mm)</th>
<th>Light emitting surface (mm)</th>
<th>Wavelength (nm)</th>
<th>Available IP protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-402-000/1W/3W/5W</td>
<td>ø25x45</td>
<td>ø18,5</td>
<td>any color</td>
<td>IP65</td>
</tr>
<tr>
<td>3-410-000/1W/3W/5W (goose neck)</td>
<td>ø25x45+120</td>
<td>ø18,5</td>
<td>any color</td>
<td>IP65</td>
</tr>
</tbody>
</table>

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 +36-1-392-2278.
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: 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

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 +36-1-392-2278.
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

<table>
<thead>
<tr>
<th>Product number</th>
<th>Dimensions (mm)</th>
<th>Light emitting surface (mm)</th>
<th>Wavelength (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-015-000</td>
<td>250x60x20</td>
<td>250x10</td>
<td>White</td>
</tr>
<tr>
<td>3-015-750</td>
<td>90x87x20</td>
<td>80x15</td>
<td>NIR + White</td>
</tr>
</tbody>
</table>

**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 +36-1-392-2278
LED Light Sources for Fiber Optics offer long life 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**

<table>
<thead>
<tr>
<th>Product number</th>
<th>Dimensions (mm)</th>
<th>Fiber connection dimension</th>
<th>Fiber diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-650-000</td>
<td>250x220x117 mm</td>
<td>Ø14x37 mm</td>
<td>Ø6 mm</td>
</tr>
<tr>
<td>3-650-500</td>
<td>250x220x117 mm</td>
<td>Ø8,4x30 mm</td>
<td>Ø1 mm</td>
</tr>
</tbody>
</table>

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 +36-1-392-2278.
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
- continous 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

**LED Matrix Lights**

<table>
<thead>
<tr>
<th>Product number</th>
<th>Dimensions (mm)</th>
<th>Light emitting surface (mm)</th>
<th>Wavelength (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-005-000</td>
<td>40x20x22</td>
<td>32x16</td>
<td>640</td>
</tr>
<tr>
<td>3-001-000</td>
<td>70x30x45</td>
<td>64x26</td>
<td>630</td>
</tr>
<tr>
<td>3-002-000</td>
<td>70x30x45</td>
<td>64x26</td>
<td>880</td>
</tr>
<tr>
<td>3-003-000</td>
<td>70x30x45</td>
<td>64x26</td>
<td>white</td>
</tr>
</tbody>
</table>

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 +36-1-392-2278.
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:
  - 12V DC or 24V DC input, constant current output
  - 230V AC input, constant current output
  - 230V AC input, 5V DC, 12V DC or 24V DC output available with multiple outputs
- DIN rail mounting
- flickerless technology

**LED Power Supplies**

<table>
<thead>
<tr>
<th>Product number</th>
<th>Input / Output</th>
<th>Dimming/Triggering</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-219-600</td>
<td>24 V DC / 24 V DC</td>
<td>trigger + knob</td>
</tr>
<tr>
<td>7-219-700</td>
<td>24 V DC / 12 V DC</td>
<td>trigger + knob</td>
</tr>
<tr>
<td>7-227-600</td>
<td>24 V DC / 700 mA</td>
<td>trigger + knob</td>
</tr>
<tr>
<td>7-227-700</td>
<td>24 V DC / 700 mA</td>
<td>trigger</td>
</tr>
<tr>
<td>7-235-600</td>
<td>24 V DC / 950 mA</td>
<td>trigger</td>
</tr>
<tr>
<td>7-235-900</td>
<td>24 V DC / 1500 mA</td>
<td>built in knob</td>
</tr>
</tbody>
</table>

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

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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.

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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.

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.
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
- LED megvilágítások és szűrők fluoreszcens alkalmazásokhoz
- LED fényforrások száloptikai megvilágításhoz
- objektívek, szűrők, közgyűrűk, tükrök

**OPTO ENGINEERING** és **COMPUTAR** objektívek hazai forgalmazója

- ipari objektívek akár 12 MP-ig alacsony torzítással
- SWIR objektívek
- telecentrikus objektívek

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