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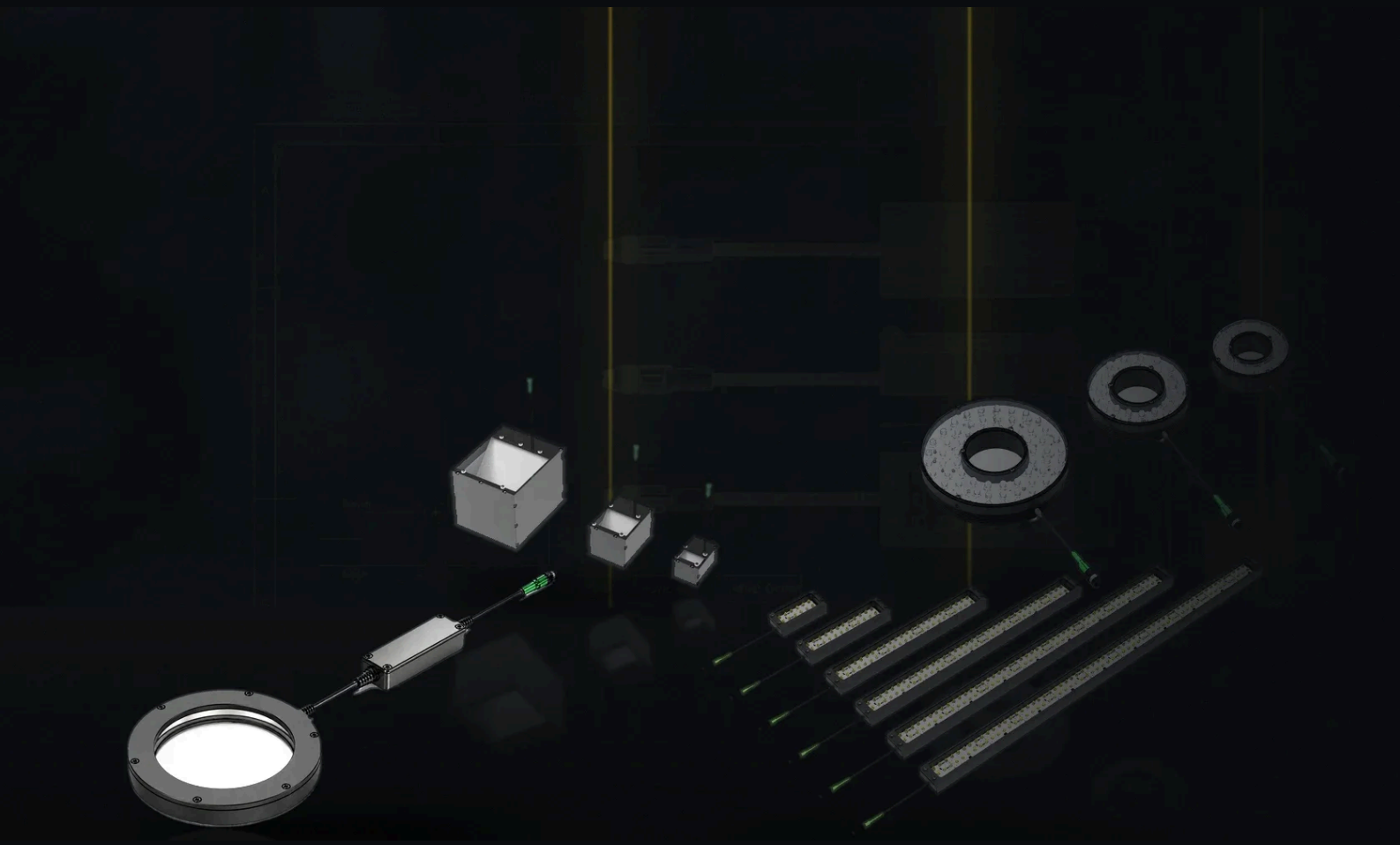

LED Lights for Machine Vision

Product catalogue 2026

Bar, ring, back, area, line-scan, dome, tunnel, coaxial and dark-field lights, and cables.

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Complete technical data, model tables, dimensional drawings, instruction manuals and datasheets for every product: **www.fogegmbh.com**. All values in this catalogue come from the product datasheets.

Bar lights

Compact and long LED bar lights for direct or angled illumination in machine vision.



VL-BAR

Compact Bar Light

Angle-adjustable LED bar light for machine vision, 51 to 505 mm, 24 V DC with PNP / NPN trigger

Light type	**Compact LED bar light for direct or angled illumination**
Colours and wavelength	**Red 621 nm · Green 528 nm · Blue 470 nm · White 6500 K**
Light lengths (B)	**51 / 102 / 203 / 305 / 405 / 505 mm**
Supply voltage	**24 V DC**

- Six lengths: 51, 102, 203, 305, 405 and 505 mm
- Red 621 nm, green 528 nm, blue 470 nm or white 6500 K; IR 850 nm and UV 365 nm on request
- Automotive-grade LEDs with constant-current drive



VL-BAL

Long Bar Light

LED bar light for long-range applications, 400 to 2500 mm, 24 V DC with PNP / NPN trigger

Light type	**LED bar light for long-range and large-area illumination**
Colours and wavelength	**Red 621 nm · Green 528 nm · Blue 470 nm · White 6500 K**
Light lengths (B)	**400 – 1100 mm in 100 mm steps, 1300 / 1500 / 1700 / 2000 / 2500 mm**
Supply voltage	**24 V DC**

- Lengths from 400 to 2500 mm
- Automotive-grade LEDs with constant-current drive
- High power for long-range applications

Ring lights

Direct LED ring lights mounted around the camera lens.



VL-RGF

Direct Ring Light

Direct LED ring light, 3 sizes, red, green, blue or white, 24 V DC with PNP / NPN trigger

Light type	**Direct LED ring light**
Colours and wavelength	**Red 621 nm · Green 528 nm · Blue 470 nm · White 6500 K**
Sizes	**51-30, 70-38, 100-45 (see model table)**
Supply voltage	**24 V DC**

- High-power clear LEDs for maximum light and working range
- Automotive-grade LEDs with constant-current drive
- 3 mm LEDs for diffuse illumination

Backlights

LED backlights for silhouette inspection, measurement and part detection.



VL-BLC

High Intensity Compact Backlight

Compact LED backlight, 30 × 30 to 200 × 200 mm, red or white, 24 V DC with PNP / NPN trigger

Light type	**High-intensity compact LED backlight**
Colours and wavelength	**Red 625 nm · White 6500 K**
Sizes (A × B)	**30 × 30 to 200 × 200 mm, 12 sizes (see model table)**
Supply voltage	**24 V DC**

- Twelve sizes from 30 × 30 to 200 × 200 mm
- Maximum LED density for highest light intensity
- Compact design for small areas



VL-BLA

Large Area Backlight

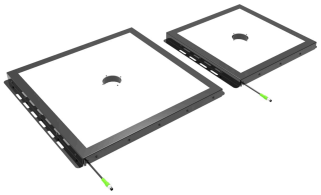
White LED backlight, 300 × 300 to 1000 × 1000 mm, 24 V DC, slim steel housing

Light type	**Large-area LED backlight**
Colour	**White 6500 K**
Sizes (A × B)	**300 × 300 to 1000 × 1000 mm in 100 mm steps**
Supply voltage	**24 V DC**

- Sizes from 300 × 300 to 1000 × 1000 mm
- Diffuse large-area light in a slim design, 21 mm thick
- Complete metal case for harsh environments

Area lights

Large flat dome lights with a camera hole for even, diffuse illumination of large areas.



VL-FLD

Large Area Flat Dome Light

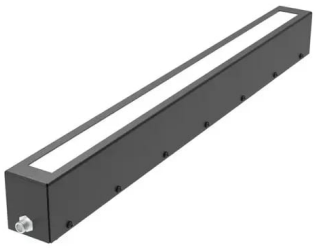
White flat dome light with camera hole, 300 × 300 to 1000 × 1000 mm, 24 V DC

Light type	**Large-area flat dome light with camera hole**
Colour	**White 6500 K**
Sizes (A × B)	**300 × 300 to 1000 × 1000 mm in 100 mm steps**
Supply voltage	**24 V DC**

- Diffuse light with camera hole for a dome effect
- Sizes from 300 × 300 to 1000 × 1000 mm
- Hole position and design changeable on request

Line-scan lights

Long LED bar backlights for line-scan cameras, up to 2500 mm on request.



VL-BLL

Bar Backlight for Line Scan

LED bar backlight for line-scan cameras, 400 to 1000 mm, up to 2500 mm on request, 24 V DC

Light type	**LED bar backlight for line-scan cameras**
Colours and wavelength	**Red 625 nm · White 6500 K**
Light lengths (B)	**400 – 1000 mm in 100 mm steps; up to 2500 mm on request**
Supply voltage	**24 V DC**

- Lengths 400 – 1000 mm, up to 2500 mm on request
- High power for long-range applications with low power consumption
- Red 625 nm or white 6500 K; IR 850 nm and UV 365 nm on request

Dome lights

Dome lights for diffuse illumination of shiny and curved parts.



VL-DOM

Dome Light

Dome light for diffuse illumination of shiny and curved parts, up to 250 mm, 24 V DC

Light type	**Dome light for diffuse illumination**
Colours and wavelength	**Red 625 nm · White 6500 K**
Sizes	**125-98 and 250-223 (see model table)**
Supply voltage	**24 V DC**

- High-intensity, high-density LEDs for a bright dome effect
- Soft white paint inside for even lighting
- Easy to integrate thanks to mechanical fixing points

Tunnel lights

Tunnel lights for diffuse illumination of shiny parts on conveyors and in narrow spaces.



VL-TNL

Tunnel Light

Tunnel light for diffuse illumination of shiny parts, round opening (VL-TNA) or slot (VL-TNL), up to 1000 mm, 24 V DC

Light type	**Tunnel light for diffuse illumination; built with VL-BAL bar lights inside**
Colours and wavelength	**Red 625 nm · White 6500 K**
Sizes (A × B)	**VL-TNA and VL-TNL 200 – 400 × 250 / 500 / 750 / 1000 mm**
Supply voltage	**24 V DC**

- Diffuse light for shiny parts and narrow spaces
- VL-TNA with round camera opening, VL-TNL with camera slot
- Lengths up to 1000 mm

Coaxial lights

On-axis coaxial lights for flat, reflective surfaces and small parts.



VL-COX

Coaxial Light

On-axis diffuse LED light for flat, reflective surfaces and small parts, 4 sizes, 24 V DC with PNP / NPN trigger

Light type	**Coaxial light for on-axis diffuse illumination**
Colours and wavelength	**Red 625 nm · White 6500 K**
Sizes	**32-16, 50-35, 94-78, 148-133 (see model table)**
Supply voltage	**24 V DC**

- Light guiding for a full coaxial effect
- On-axis diffuse illumination, ideal for small parts
- High-intensity LEDs designed for maximum illumination

Dark-field lights

Low-angle dark-field lights that highlight edges, scratches and engravings.



VL-DFF

Dark Field Light

Low-angle LED ring light for dark-field illumination, 6 sizes, red or white, 24 V DC

Light type	**Low-angle LED ring light for dark-field illumination**
Colours and wavelength	**Red 625 nm · White 6500 K**
Sizes (A × B)	**40 × 80 to 355 × 395 mm, 6 sizes (see model table)**
Supply voltage	**24 V DC**

- Low-angle light for dark-field illumination
- High-intensity LEDs
- Compact design, 15.5 mm high

Cables

M8, M12 and Cognex In-Sight connection cables for machine vision lights.



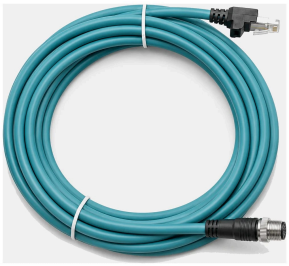
CCB-PWRIO-05-F

Power I/O Cable for Cognex In-Sight, 5 m

M12 12-pin power and I/O cable, 5 m, IP67, compatible with the Cognex In-Sight series

Connector	**Straight M12 12-pin with cable**

- Straight M12 12-pin connector
- Length 5 m
- IP67



CCB-84901-2001-05-F

Ethernet Cable for Cognex In-Sight, 5 m

M12 X-coded to RJ45 Ethernet cable, 5 m, compatible with the Cognex In-Sight series

Connector	**Straight, M12 X-coded to RJ45**

- Straight M12 X-coded connector to RJ45
- Length 5 m
- Turquoise cable with black jacket



TKPM-Z-5/4

M8 Connection Cable, 5 m

Straight M8 4-pin female connector with 5 m PVC cable and open end, IP67, for FÖGE machine vision lights

Connector	**Socket M8 × 1, 4-pin, A-coded, straight**

- Straight M8 4-pin female connector, A-coded
- 5 m PVC cable with open end
- Metal union nut, gold-plated contacts



VKPM-Z-5/4

M12 Connection Cable, 5 m

Straight M12 4-pin female connector with 5 m PVC cable and open end, IP67, for FÖGE machine vision lights

Connector	**Socket M12, 4-pin, A-coded, straight**

- Straight M12 4-pin female connector, A-coded
- 5 m PVC cable with open end
- Metal union nut, gold-plated contacts

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Technical data subject to change. Current datasheets, instruction manuals and drawings: www.fogegmbh.com.