Particularly at twilight during cloudy skies or from glass viewing inside a room through a window. The lasers are able to illuminate a scene giving devices and aiming devices with IR image intensifiers the room is visible.

Left: Observation from a distance of 40 m without laser. Right: with laser.

Ranges of the LaserFlash models

<table>
<thead>
<tr>
<th>Model</th>
<th>Range (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LaserFlash Compact</td>
<td>0 - 30</td>
</tr>
<tr>
<td>Laserflash QCW 940 nm</td>
<td>0 - 200</td>
</tr>
<tr>
<td>Laserflash QCW 785 nm</td>
<td>0 - 200</td>
</tr>
<tr>
<td>LaserFlash IT 940 nm</td>
<td>0 - 250</td>
</tr>
<tr>
<td>LaserFlash IT 785 nm</td>
<td>0 - 250</td>
</tr>
<tr>
<td>LaserFlash F 940 nm</td>
<td>0 - 50</td>
</tr>
<tr>
<td>LaserFlash Compact</td>
<td>0 - 50</td>
</tr>
<tr>
<td>LaserFlash QCW 940 nm</td>
<td>0 - 300</td>
</tr>
<tr>
<td>Laserflash QCW 785 nm</td>
<td>0 - 300</td>
</tr>
<tr>
<td>LaserFlash IT 940 nm</td>
<td>0 - 350</td>
</tr>
<tr>
<td>LaserFlash IT 785 nm</td>
<td>0 - 350</td>
</tr>
<tr>
<td>LaserFlash F 940 nm</td>
<td>0 - 15</td>
</tr>
</tbody>
</table>

Our LaserFlash devices can illuminate a dark scene over long distance and is completely invisible to the human eye. We offer different models and wavelengths for various application areas. Consequently people and objects can be observed at high image quality without revealing the user.

Discreet CCTV surveillance at night

A common observation from a flat involves viewing the glass in the window.

Observation from a flat

Viewing through a window glass. The powerful LaserFlash P IT models support night vision devices with image intensifiers.

Support for night vision devices and aiming devices with image intensifiers.

LaserFlash QCW 940 nm
LaserFlash QCW 785 nm
LaserFlash Plus QCW 940 nm
LaserFlash Plus QCW 785 nm
LaserFlash P IT 940 nm
LaserFlash P IT 785 nm
LaserFlash F 940 nm
LaserFlash Compact

Our LaserFlash QCW models support night vision devices and aiming devices with image intensifiers for observation from a distance of several hundred meters, whereby during illumination time the maximum amount of light is made available. The QCW version operates with both, IP and analogue cameras – with a connection to the camera is not necessary. For operational convenience several cameras can be simultaneously linked.

Support of IP and analogue cameras

Eye-safe IR laser illumination

Application options for OptoPrecision LaserFlash

eye-safe IR laser illumination for undercover operations

Until now the reading of number plates through dipped headlights was unthinkable. For the first time, identification of number plates despite interfering light is now possible.

Identification of number plates with and without laser illumination

Identification of number plates despite interfering light

Supported in public areas with eye-safe IR Laser Flashlight

Our IR laser illuminations are eye safe in laser class 1 and therefore can be applied in public areas. The laser safety of the products is certified by an independent laboratory. Our IR laser illuminations are eye safe in laser class 1 and therefore can be applied in public areas. The laser safety of the products is certified by an independent laboratory.

Operation in public areas with eye-safe IR Laser Flashlight

Less interfering reflections of sunlight caused by polarized laser light

Interference reflections caused by sunlight are reduced by a polarizing filter and a powerful IR laser. The laser light is polarised, which means in the filter.

Support of number plates

Suppression of interfering light

Particularly in dark and low light conditions any camera is very sensitive to interfering light and changing light conditions. Consequently image quality is not very good. Our LaserFlash devices support cameras with interference filters. Interference filters allow the observation of powerful IR laser illuminations in situations with high image quality.

Support of number plates

OptoPrecision LaserFlash

Eye-safe IR laser illumination

Support of number plates

OptoPrecision LaserFlash

Eye-safe IR laser illumination

Support of number plates
LaserFlash Plus QCW 940 nm
LaserFlash Plus QCW 785 nm

Support for night vision devices and aiming devices with infra-red illuminators. The LaserFlash QCW models support night vision devices and aiming devices with infra-red illuminators. These devices are especially useful for taking contrast-rich and detailed views of the surrounding area. Observation from a flat
A common observation from a flat involves viewing through window glass. The powerful LaserFlash P and Plus models can be used from behind the glass of a window to illuminate a scene in an outside area. A common observation from a flat involves viewing through window glass. The powerful LaserFlash P and Plus models can be used from behind the glass of a window to illuminate a scene in an outside area.

400 m
300 m
200 m
150 m
100 m
50 m

Observation from a flat
A common observation from a flat involves viewing through window glass. The powerful LaserFlash P and Plus models can be used from behind the glass of a window to illuminate a scene in an outside area.

Observation from a flat
A common observation from a flat involves viewing through window glass. The powerful LaserFlash P and Plus models can be used from behind the glass of a window to illuminate a scene in an outside area.

The LaserFlash P and Plus models are especially suitable for taking contrast-rich and detailed view of the surrounding area. The LaserFlash P and Plus models are especially suitable for taking contrast-rich and detailed view of the surrounding area.

Discreet CCTV surveillance at night
Our LaserFlash devices can illuminate a dark scene without revealing the user. The LaserFlash devices can illuminate a dark scene without revealing the user. The LaserFlash devices can illuminate a dark scene without revealing the user.

Security Systems GmbH
OptoPrecision
Tel: +49 421-94961-17
Germany 28357 Bremen

www.optoprecision.com
security@optoprecision.de

OptoPrecision Security Systems

Eye-safe IR laser illumination for undercover operations

Operation in public areas with eye-safe IR Laser Illuminations
Our IR Laser illuminations are eye-safe in laser class 1. No extra safety precautions have to be taken. No extra safety precautions have to be taken.

Application options for OptoPrecision LaserFlash
Eye-safe IR laser illumination for undercover operations

Operation in public areas with eye-safe IR Laser Illuminations
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OptoPrecision Security Systems

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OptoPrecision Security Systems

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OptoPrecision Security Systems

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OptoPrecision Security Systems

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OptoPrecision Security Systems

Eye-safe IR laser illumination for undercover operations

Operation in public areas with eye-safe IR Laser Illuminations
Our IR Laser illuminations are eye-safe in laser class 1. No extra safety precautions have to be taken. No extra safety precautions have to be taken.

OptoPrecision Security Systems

Eye-safe IR laser illumination for undercover operations

Operation in public areas with eye-safe IR Laser Illuminations
Our IR Laser illuminations are eye-safe in laser class 1. No extra safety precautions have to be taken. No extra safety precautions have to be taken.
Support for night vision devices and aiming devices with image intensifiers. The LaserFlash QCW models support night vision devices and aiming devices with image intensifiers through window glass. The LaserFlash P models are especially suitable for taking contrast-rich and detailed view of the surrounding area. Particularly at twilight during cloudy skies or from glass in the window to illuminate a scene in an outside area. The powerful LaserFlash P models support night vision devices with image intensifiers.

Ranges of the LaserFlash models

<table>
<thead>
<tr>
<th>Model</th>
<th>Range (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LaserFlash Compact</td>
<td>100</td>
</tr>
<tr>
<td>LaserFlash QCW 785 nm</td>
<td>120</td>
</tr>
<tr>
<td>LaserFlash QCW 940 nm</td>
<td>120</td>
</tr>
<tr>
<td>LaserFlash P IT 785 nm</td>
<td>150</td>
</tr>
<tr>
<td>LaserFlash P IT 940 nm</td>
<td>180</td>
</tr>
<tr>
<td>LaserFlash F 940 nm</td>
<td>200</td>
</tr>
<tr>
<td>LaserFlash Compact</td>
<td>150</td>
</tr>
<tr>
<td>LaserFlash QCW 785 nm</td>
<td>150</td>
</tr>
<tr>
<td>LaserFlash QCW 940 nm</td>
<td>180</td>
</tr>
<tr>
<td>LaserFlash P IT 785 nm</td>
<td>200</td>
</tr>
<tr>
<td>LaserFlash P IT 940 nm</td>
<td>220</td>
</tr>
<tr>
<td>LaserFlash F 940 nm</td>
<td>250</td>
</tr>
<tr>
<td>LaserFlash Compact</td>
<td>250</td>
</tr>
<tr>
<td>LaserFlash QCW 785 nm</td>
<td>250</td>
</tr>
<tr>
<td>LaserFlash QCW 940 nm</td>
<td>280</td>
</tr>
<tr>
<td>LaserFlash P IT 785 nm</td>
<td>300</td>
</tr>
<tr>
<td>LaserFlash P IT 940 nm</td>
<td>330</td>
</tr>
<tr>
<td>LaserFlash F 940 nm</td>
<td>350</td>
</tr>
<tr>
<td>LaserFlash Compact</td>
<td>350</td>
</tr>
<tr>
<td>LaserFlash QCW 785 nm</td>
<td>350</td>
</tr>
<tr>
<td>LaserFlash QCW 940 nm</td>
<td>380</td>
</tr>
<tr>
<td>LaserFlash P IT 785 nm</td>
<td>400</td>
</tr>
<tr>
<td>LaserFlash P IT 940 nm</td>
<td>430</td>
</tr>
<tr>
<td>LaserFlash F 940 nm</td>
<td>450</td>
</tr>
<tr>
<td>LaserFlash Compact</td>
<td>450</td>
</tr>
<tr>
<td>LaserFlash QCW 785 nm</td>
<td>450</td>
</tr>
<tr>
<td>LaserFlash QCW 940 nm</td>
<td>480</td>
</tr>
</tbody>
</table>

Suppression of interfering light

Particularly in dark surroundings it is very common to suffer from interfering light and changing light conditions (e.g. from car headlights, streetlights, on one side, the other side). Our laser flash devices support camera systems for interesting applications, e.g. from security services at police task forces, customs and other security services on undercover operations. The invisible, eye-safe laser light enables undercover forces to illuminate an object under surveillance. The operational convenience several cameras can be simultaneously linked. This version laser pulses of 300 Hz are emitted so that the amount of light is made available. The QCW version operational modes. The IT version is synchronised with the video signal with the analogue camera, this version is also available for operation in public areas. The LaserFlash P & Plus models are available in IT and QCW operational modes. The IT version is synchronised with the video signal with the analogue camera, this version is also available for operation in public areas. The LaserFlash P & Plus models are available in IT and QCW operational modes. The IT version is synchronised with the video signal with the analogue camera. The QCW version is operated with 300 Hz and produces 1000 Hz pulses in the video signal with the analogue camera. This results in the target object in the image being overexposed. In comparison to other IR light sources, the LaserFlash laser illumination radiates in a much narrower spectral bandwidth (2-4 nm) and reduces in comparison to LED IR illuminations, it makes the reduction of interfering light six times more efficient. Because IR laser illumination radiates in a much narrower spectral bandwidth (2-4 nm) and reduces in comparison to LED IR illuminations, it makes the reduction of interfering light six times more efficient.

Eye-safe IR laser illumination

For undercover operations, eye-safe IR laser illumination is indispensable. Our IR laser illuminations are eye-safe in laser class 1 (IR laser class I). Operations in public areas with eye-safe IR laser illuminations are therefore possible. The LaserFlash products support cameras with analogue and IP video interfaces.

Identification of number plates despite interfering light

Because of the very high quality of the image, our LaserFlash products make the application of powerful IR laser illuminations in laboratory operations possible. In comparison to other IR light sources, eye-safe IR laser illumination radiates in a much narrower spectral bandwidth (2-4 nm) and reduces in comparison to LED IR illuminations, it makes the reduction of interfering light six times more efficient. Because IR laser illumination radiates in a much narrower spectral bandwidth (2-4 nm) and reduces in comparison to LED IR illuminations, it makes the reduction of interfering light six times more efficient. Because IR laser illumination radiates in a much narrower spectral bandwidth (2-4 nm) and reduces in comparison to LED IR illuminations, it makes the reduction of interfering light six times more efficient.

Identification of number plates despite interfering light

Because of the very high quality of the image, our LaserFlash products make the application of powerful IR laser illuminations in laboratory operations possible.
LaserFlash Compact

- non-visible illumination for short distances
- long distances with high image quality
- high degree of camouflage possible
- suitable for IP cameras

Important technical details
- wavelength [nm]: 808
- range [m]: 80
- power output [W]: 1
- dimensions: 115 x 85 x 120 mm
- weight: 0.5 kg
- operating voltage: 12 V

LaserFlash F

- non-visible illumination of medium range
- IR illumination at a working distance of up to 200 m
- pin-mounted and easily adjustable
- suppression of interfering light effects
- long distances usage with laser class 3R
- • compact design
- • suppression of interfering light effects
- • non-visible and eye-safe light
- • high image quality even during difficult light conditions
- • high image quality even during difficult light conditions

Important technical details
- available radiance angles [°]: 3°, 5°, 12°, 23°
- power output [W]: 1
- range [m]: 200
- dimensions: 120 x 85 x 120 mm
- weight: 0.7 kg
- operating voltage: 12 V
- suitable for IP cameras yes

OptoPrecision Security Systems GmbH

Surveillance, security and IR laser technology

Accessories for LaserFlash products:

- Interference filter
- Special lenses and cameras.
- Tripods, power supply, spacer rings, filters, bespoke transportation cases and accessories.

We also offer further accessories such as tripods, power supply, spacer rings, filters, bespoke transportation cases and accessories.

Important technical details for LaserFlash Plus IT
- available radiance angles [°]: 3°, 5°, 12°, 23°
- power output [W]: 2
- range [m]: 200
- dimensions: 120 x 85 x 120 mm
- weight: 1.2 kg
- operating voltage: 12 V
- suitable for IP cameras yes

Further products from the product portfolio:

- Binoculars
- Cameras
- Acoustic effectors
- Thermal sensors
- Driver assistance systems

Technical details

<table>
<thead>
<tr>
<th>Item</th>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LaserFlash Compact</td>
<td>Non-visible illumination for short distances</td>
<td>For installation in the area of up to 80 m.</td>
</tr>
<tr>
<td>LaserFlash F</td>
<td>Non-visible illumination of medium range</td>
<td>For installation in the area of up to 200 m.</td>
</tr>
<tr>
<td>LaserFlash P IT</td>
<td>IR illumination at a working distance of up to 200 m</td>
<td>Pin-mounted and easily adjustable.</td>
</tr>
<tr>
<td>LaserFlash Plus IT</td>
<td>IR illumination at a working distance of up to 200 m</td>
<td>Pin-mounted and easily adjustable.</td>
</tr>
<tr>
<td>LaserFlash Plus QCW</td>
<td>IR illumination at a working distance of up to 400 m</td>
<td>Pin-mounted and easily adjustable.</td>
</tr>
</tbody>
</table>
OptoPrecision LaserFlash products

Eye-safe IR laser illumination for undercover operations

- The LaserFlash P IT series is suitable for mobile surveillance, military and companies that require under-cover and military operations.
- The LaserFlash P QCW series is suitable for IP and analogue cameras without synchronisation.

<table>
<thead>
<tr>
<th>LaserFlash P IT</th>
<th>LaserFlash P QCW</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technical description</strong></td>
<td><strong>Technical description</strong></td>
</tr>
<tr>
<td>IR illumination at a working distance of up to 250 m</td>
<td>IR illumination at a working distance of up to 400 m</td>
</tr>
<tr>
<td>- wavelength: 940 nm</td>
<td>- available wavelengths: 785, 808, 905, 940 nm</td>
</tr>
<tr>
<td>- non-visible and eye-safe light</td>
<td>- non-visible and eye-safe light</td>
</tr>
<tr>
<td>- suppression of interfering light effects</td>
<td>- suppression of interfering light effects</td>
</tr>
<tr>
<td>- high image quality even during difficult light conditions</td>
<td>- high image quality even during difficult light conditions</td>
</tr>
<tr>
<td><strong>Important technical details</strong></td>
<td><strong>Important technical details</strong></td>
</tr>
<tr>
<td>- range [m]: 200 @ LK 1 / 150 @ LK 3R</td>
<td>- range [m]: up to 250 m</td>
</tr>
<tr>
<td>- synchronisation with analogue camera: yes</td>
<td>- synchronisation with analogue camera: no</td>
</tr>
<tr>
<td>- available radiance angles [°]: 3°, 5°, 12°, 23°</td>
<td>- available radiance angles [°]: 3°, 5°, 12°, 23°</td>
</tr>
</tbody>
</table>

Furthermore, the LaserFlash P IT series is equipped with an integrated TrigBox which allows for easy installation, compact and robust design.

<table>
<thead>
<tr>
<th>LaserFlash Plus QCW</th>
<th>LaserFlash F</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technical description</strong></td>
<td><strong>Technical description</strong></td>
</tr>
<tr>
<td>IR illumination at a working distance of up to 250 m</td>
<td>IR illumination at a working distance of up to 15 m</td>
</tr>
<tr>
<td>- available wavelengths: 785, 808, 940 nm</td>
<td>- wavelength: 905 nm</td>
</tr>
<tr>
<td>- suppression of interfering light effects</td>
<td>- direct visible light without the need for synchronisation</td>
</tr>
<tr>
<td>- high image quality even during difficult light conditions</td>
<td>- suppression of interfering light effects</td>
</tr>
<tr>
<td><strong>Important technical details</strong></td>
<td><strong>Important technical details</strong></td>
</tr>
<tr>
<td>- range [m]: up to 250 m</td>
<td>- range [m]: 15 m</td>
</tr>
<tr>
<td>- synchronisation: yes</td>
<td>- synchronisation: no</td>
</tr>
<tr>
<td>- available radiance angles [°]: 3°, 5°, 12°, 23°</td>
<td>- available radiance angles [°]: 3°, 5°, 12°</td>
</tr>
</tbody>
</table>

In combination with an infrared sensitive camera, the LaserFlash P IT series is extremely suitable for under-cover and military operations.

<table>
<thead>
<tr>
<th>LaserFlash Compact</th>
<th>LaserFlash P IT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technical description</strong></td>
<td><strong>Technical description</strong></td>
</tr>
<tr>
<td>IR illumination at a working distance of up to 250 m</td>
<td>IR illumination at a working distance of up to 250 m</td>
</tr>
<tr>
<td>- available wavelengths: 808, 905, 940 nm</td>
<td>- wavelength: 940 nm</td>
</tr>
<tr>
<td>- suppression of interfering light effects</td>
<td>- suppression of interfering light effects</td>
</tr>
<tr>
<td>- high image quality even during difficult light conditions</td>
<td>- high image quality even during difficult light conditions</td>
</tr>
<tr>
<td><strong>Important technical details</strong></td>
<td><strong>Important technical details</strong></td>
</tr>
<tr>
<td>- range [m]: up to 250 m</td>
<td>- range [m]: up to 50 m</td>
</tr>
<tr>
<td>- synchronisation: no</td>
<td>- synchronisation: no</td>
</tr>
<tr>
<td>- available radiance angles [°]: 3°, 5°, 12°, 23°</td>
<td>- available radiance angles [°]: 3°, 5°, 12°</td>
</tr>
</tbody>
</table>

The LaserFlash P IT series is available for current LaserFlash P, Plus and F series models.

Available for all current LaserFlash P IT, P QCW and LaserFlash Plus QCW models.

Additional information: The LaserFlash P IT series is available for current LaserFlash P, Plus and F series models.

Available for current LaserFlash P IT, P QCW and LaserFlash Plus QCW models.

Accessories for LaserFlash products:

<table>
<thead>
<tr>
<th>LaserFlash Product</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>LaserFlash Plus QCW</td>
<td>- Tripod adapter board</td>
</tr>
<tr>
<td>LaserFlash P IT</td>
<td>- Tripod adapter board</td>
</tr>
<tr>
<td>LaserFlash Compact</td>
<td>- Tripod adapter board</td>
</tr>
</tbody>
</table>

Further products from the product portfolio:

- Surveillance, security and IR laser technology
- PROFESSIONAL VIDEO SOLUTIONS
  - multi-sensor-platforms
  - binoculars
  - cameras
  - driver assistance systems

We also offer further accessories such as tripods, power supply, spacer rings, tripod, heat resistant covers and accessories.
Eye-safe IR laser illumination for undercover operations

OptoPrecision LaserFlash products

- LaserFlash Compact
- LaserFlash F
- LaserFlash P IT
- LaserFlash P QCW
- LaserFlash Plus IT
- LaserFlash Plus QCW

Product description

The LaserFlash Compact luminaire range and models are ideally suited to cover covert operations within the shortest time and fewest compromises within the most difficult conditions. The remote-controlled 12 V operating voltage is ideal for mobile and energy-saving applications. The beam is aligned by the motorised angles of laser radiation.

Important technical details

<table>
<thead>
<tr>
<th>Item</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-luminance laser diodes</td>
<td>Max. max. 2 mW</td>
</tr>
<tr>
<td>Vertical adjustment</td>
<td>0° to 3°</td>
</tr>
<tr>
<td>Horizontal adjustment</td>
<td>0° to 3°</td>
</tr>
<tr>
<td>Dimensions</td>
<td>18 x 15 x 10 cm</td>
</tr>
</tbody>
</table>

Accessories for LaserFlash products

- Twilight sensor
- Tripod adapter board
- Interference filter

Twilight sensor

- Inference filter in 5 mm c-mount spacer ring.
- Vertical: 3°, 5°, 12° or 23°
- Laser flash angle can be easily adjusted for different applications.
- Laser flash and camera can beave as one unit.
- Light properties at a distance of up to 15 m or at a fixed position of up to 250 m.
- Suitable for IP and analogue cameras without need for synchronization.

Technical description

- Vertical: 3°, 5°, 12° or 23°
- Laser flash angle can be easily adjusted for different applications.
- Laser flash and camera can be used as one unit.
- Light properties at a distance of up to 15 m or at a fixed position of up to 250 m.
- Suitable for IP and analogue cameras without need for synchronization.

Accessories for LaserFlash products

- Twilight sensor
- Tripod adapter board
- Interference filter

1 Item suitable for LaserFlash P QCW objects at a distance of up to 120 m. In LaserFlash Plus within 150 m. In LaserFlash P IT at 200 m. In LaserFlash P QCW objects at a distance of up to 120 m. In LaserFlash Plus within 150 m. In LaserFlash P IT at 200 m. In LaserFlash P QCW objects at a distance of up to 200 m. In LaserFlash Plus within 250 m. In LaserFlash P IT at 300 m. In LaserFlash P QCW objects at a distance of up to 250 m.

PROFESSIONAL VIDEO SOLUTIONS

- multi-sensor-platforms
- CCTV camera systems


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Eye-safe IR laser illumination for undercover operations

OptoPrecision LaserFlash products

- For stabilisation an optional interference filter is recommended.
- Range is - amongst others - dependent on the used wavelength, sensor sensitivity, reflectivity of object and transmission of lens (max @ 785 nm).

LaserFlash Compact

• can be used outdoors until IP-65
• 24 / 7 operation with external power supply unit
• portable operation
• integrated Lithium-Ion rechargeable battery for password-protected switching to laser class 3R

Important technical details

- Operating voltage 12 V
- Operating modes single / continuous / pulse
- Operating time 11 hours / 70 hours / 1000 hours
- Operating temperature -10°C to +55°C
- Storage temperature -20°C to +70°C
- IP rating IP-65
- Weight 0.8 kg

Recommended accessories

- Front frame
- Special lenses and cameras
- Image stabilisation

LaserFlash F

- IR illumination at a working distance of up to 50 m can be achieved without the need of synchronisation
- Password-protected switching to laser class 3R
- High image quality even during difficult light conditions
- IR illumination at working distance of up to 50 m can be achieved without the need of synchronisation
- Password-protected switching to laser class 3R

Important technical details

- Operating voltage 12 V
- Operating modes single / continuous / pulse
- Operating time 11 hours / 70 hours / 1000 hours
- Operating temperature -10°C to +55°C
- Storage temperature -20°C to +70°C
- IP rating IP-65
- Weight 0.8 kg

Recommended accessories

- Front frame
- Special lenses and cameras
- Image stabilisation

LaserFlash P IT

- IR illumination at a working distance of up to 50 m can be achieved without the need of synchronisation
- Password-protected switching to laser class 3R
- High image quality even during difficult light conditions
- IR illumination at a working distance of up to 50 m can be achieved without the need of synchronisation
- Password-protected switching to laser class 3R

Important technical details

- Operating voltage 12 V
- Operating modes single / continuous / pulse
- Operating time 11 hours / 70 hours / 1000 hours
- Operating temperature -10°C to +55°C
- Storage temperature -20°C to +70°C
- IP rating IP-65
- Weight 0.8 kg

Recommended accessories

- Front frame
- Special lenses and cameras
- Image stabilisation

LaserFlash P QCW

- IR illumination at a working distance of up to 50 m can be achieved without the need of synchronisation
- Password-protected switching to laser class 3R
- High image quality even during difficult light conditions
- IR illumination at a working distance of up to 50 m can be achieved without the need of synchronisation
- Password-protected switching to laser class 3R

Important technical details

- Operating voltage 12 V
- Operating modes single / continuous / pulse
- Operating time 11 hours / 70 hours / 1000 hours
- Operating temperature -10°C to +55°C
- Storage temperature -20°C to +70°C
- IP rating IP-65
- Weight 0.8 kg

Recommended accessories

- Front frame
- Special lenses and cameras
- Image stabilisation

LaserFlash Plus IT

- IR illumination at a working distance of up to 50 m can be achieved without the need of synchronisation
- Password-protected switching to laser class 3R
- High image quality even during difficult light conditions
- IR illumination at a working distance of up to 50 m can be achieved without the need of synchronisation
- Password-protected switching to laser class 3R

Important technical details

- Operating voltage 12 V
- Operating modes single / continuous / pulse
- Operating time 11 hours / 70 hours / 1000 hours
- Operating temperature -10°C to +55°C
- Storage temperature -20°C to +70°C
- IP rating IP-65
- Weight 0.8 kg

Recommended accessories

- Front frame
- Special lenses and cameras
- Image stabilisation

LaserFlash Plus QCW

- IR illumination at a working distance of up to 50 m can be achieved without the need of synchronisation
- Password-protected switching to laser class 3R
- High image quality even during difficult light conditions
- IR illumination at a working distance of up to 50 m can be achieved without the need of synchronisation
- Password-protected switching to laser class 3R

Important technical details

- Operating voltage 12 V
- Operating modes single / continuous / pulse
- Operating time 11 hours / 70 hours / 1000 hours
- Operating temperature -10°C to +55°C
- Storage temperature -20°C to +70°C
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Recommended accessories

- Front frame
- Special lenses and cameras
- Image stabilisation

Accessories for LaserFlash products

- Front frame
- Special lenses and cameras
- Image stabilisation

OptoPrecision Security Systems GmbH
Surveillance, security and IR laser technology
Support for night vision devices and aiming devices with infra-red reflections:

The LaserFlash QCW models support night vision devices and aiming devices with infra-red reflections, and are especially useful in dark environments with transparent or iridescent glass. The sawtooth-shaped glass reflecting in the room is visible.

Observation from a flat

A common observation from a flat involves viewing the room through a window. The powerful LaserFlash P tubes can illuminate a scene giving a clear view into a room. The LaserFlash QCW models support night vision devices, and Plus models can be used from behind the glass of the window to illuminate a scene in an outside area. Particularly at twilight during cloudy skies or from glass tube, reflections get in the way of observing. Supportive laser light for access units and snipers with night vision devices.

Ranges of the LaserFlash models:

<table>
<thead>
<tr>
<th>LaserFlash P QCW 940 nm</th>
<th>LaserFlash Plus QCW 940 nm</th>
<th>LaserFlash QCW 940 nm</th>
<th>LaserFlash QCW 785 nm</th>
<th>LaserFlash QCW 940 nm</th>
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<tbody>
<tr>
<td>25 m</td>
<td>50 m</td>
<td>250 m</td>
<td>500 m</td>
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<tr>
<td>125 m</td>
<td>250 m</td>
<td>2000 m</td>
<td>5000 m</td>
<td>1200 m</td>
</tr>
</tbody>
</table>

Discrete CCTV surveillance at night

Our LaserFlash devices can illuminate a scene giving a clear view into a room, left: Observation from a distance of 40 m without laser, right: with laser. A common observation from a flat involves viewing the room through a window. The powerful LaserFlash P tubes can illuminate a scene giving a clear view into a room. The LaserFlash QCW models support night vision devices, and Plus models can be used from behind the glass of the window to illuminate a scene in an outside area. Particularly at twilight during cloudy skies or from glass tube, reflections get in the way of observing. Supportive laser light for access units and snipers with night vision devices.

Targeting inside a room through a window glass

Reflection of multiple infra-red light sources on transparent glass often makes it difficult to observe inside a room. The LaserFlash QCW models support night vision devices and aiming devices with infra-red reflections, and are especially useful in dark environments with transparent or iridescent glass. The LaserFlash QCW models support night vision devices, and Plus models can be used from behind the glass of the window to illuminate a scene in an outside area. Particularly at twilight during cloudy skies or from glass tube, reflections get in the way of observing. Supportive laser light for access units and snipers with night vision devices.

Operation in public areas with eye-safe IR laser illumination

Our LaserFlash devices support various modes of laser illumination. In comparison to other IR light sources, the LaserFlash devices support a visible light source for various applications. Our LaserFlash devices can illuminate a scene giving a clear view into a room, left: Observation from a distance of 40 m without laser, right: with laser. A common observation from a flat involves viewing the room through a window. The powerful LaserFlash P tubes can illuminate a scene giving a clear view into a room. The LaserFlash QCW models support night vision devices, and Plus models can be used from behind the glass of the window to illuminate a scene in an outside area. Particularly at twilight during cloudy skies or from glass tube, reflections get in the way of observing. Supportive laser light for access units and snipers with night vision devices.

Application options for OptoPrecision LaserFlash Eye-safe IR laser illumination for undercover operations

On products from the LaserFlash range offer support in undercover operations, reducing the amount of light in the environment. This reduces the amount of light in the environment, being observed, allowing the application of powerful IR laser illuminations in public areas. The invisible, eye-safe laser light enables the application of powerful IR laser illuminations in public areas. Our LaserFlash devices suppress visible light by polarised IR laser illumination. In comparison to other IR light sources, the LaserFlash devices support a visible light source for various applications. Our LaserFlash devices can illuminate a scene giving a clear view into a room, left: Observation from a distance of 40 m without laser, right: with laser. A common observation from a flat involves viewing the room through a window. The powerful LaserFlash P tubes can illuminate a scene giving a clear view into a room. The LaserFlash QCW models support night vision devices, and Plus models can be used from behind the glass of the window to illuminate a scene in an outside area. Particularly at twilight during cloudy skies or from glass tube, reflections get in the way of observing. Supportive laser light for access units and snipers with night vision devices.

Support of IP and analogue cameras

This certified and approved models are suitable for both IP and analogue cameras. The QCW version is synchronised with the camera. While the QCW version is synchronised with the camera, the IT version is synchronised with the laser. This makes the QCW version suitable for security services and the IT version suitable for undercover forces. The LaserFlash QCW models support night vision devices, and Plus models can be used from behind the glass of the window to illuminate a scene in an outside area. Particularly at twilight during cloudy skies or from glass tube, reflections get in the way of observing. Supportive laser light for access units and snipers with night vision devices.

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Implementation of powerful IR laser illuminations in public areas

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Operation in public areas with eye-safe IR laser illumination

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Support for undercover operations

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