DELTA FieldLAS®

industrial projectors



PRODUCT DATASHEET

- Applications
- Features
- Specifications
- Line Width and Lenght
- Magnetic Bracket
- User's Manual









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Adjustable
Line Length



Projection Angle
90° ~ 110°



Green or Red color



Class 2, 3R



Excellent Visability



Maximum Brightness



Certified Dust & Water
Protection

DELTAFieldLAS®

Precision-engineered laser line projection system designed for industrial environments requiring clear and durable visual demarcation without the use of physical floor markings. The system projects a sharp, high-contrast laser line onto horizontal or vertical surfaces, providing a maintenance-free alternative to paint, tape, or printed signage in areas where such methods are impractical due to contamination, mechanical wear, or frequent layout variability. In addition, the unit features a compact form factor and low weight, enabling fast and flexible installation in constrained or hard-to-reach locations while minimizing the load on existing mounting structures.

Developed for continuous-duty operation, Delta FieldLAS® is suitable for integration into production, logistics, and safety-critical applications, including dynamic work areas, AGV pathways, pedestrian/forklift separation zones, and hazardous-area indication.







Features

- The new latest laser technology with the most bright and solid lines
- Improved longevity due to diode laser source
- Microprocessor control
- Protection rating IP67
- Installation in the open or inside buildings
- Solid enclosure
- Easy to install
- Precise mount, rotatable at 360°
- Heating control
- Integrated motion sensor

Applications

- Replacement of traditional zones or painted paths
- Creation of lines in applications where tape or paint do not work (dusty, cold, dirty work areas)
- Definition of pedestrian and forklift areas
- Securing of overhead cranes and zones
- Definition of areas for semi-trailer docks

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DELTA LASERS

Technical Specifications

Wavelength, nm	**530±5**	**638**
Laser power (*inner), mW	≤1400	≤1200
Laser class	2, 3R	2, 3R
Technology	Diode	Diode
Heating	(on-request)	(on-request)
PIR motion sensor	(on-request)	(on-request)
Operating temperature, °C	-30* ~ +40 *Operation at –30°C is only supported by the heating version.*	-30* ~ +40
Storage temperature, °C	-40 ~ +85	-40 ~ +85

Optical Specifications

Projection Line Angle, °	90 – 110			
Focus	Fixed			
Line Thickness, mm	40 – 80			
Line Lenght, m	*see also the scheme on next page*			
• Openin Angle, °	90	90	110	110
• Distance, m	5	10	5	10
• Approx. Line Lenght, m	10	20	14	28,5

Mechanical Specifications

Dimensions, mm	Ø80 x 175±5
Net Weight, kg	1,8
Protection rating	IP67

Electrical Specifications

Input Voltage, V (DC)	12 – 24
Input Current, mA (max)	2000
Temperature Protection	Yes
Electrical Protection	Polarity reversal, Overvoltage protection, Overheating protection
Connection	M12, 4 pin Industrial connector, IP67
Power Cable Lenght, m	5 / 10 / 15 / 20 (on request)
Power Supply Unit	A: Plug and play Adapter 24V/36W, sku: GST-36E24-P1J B: Switching Power Supply, sku: LPV-35-24

Input M12 Connector (optional)

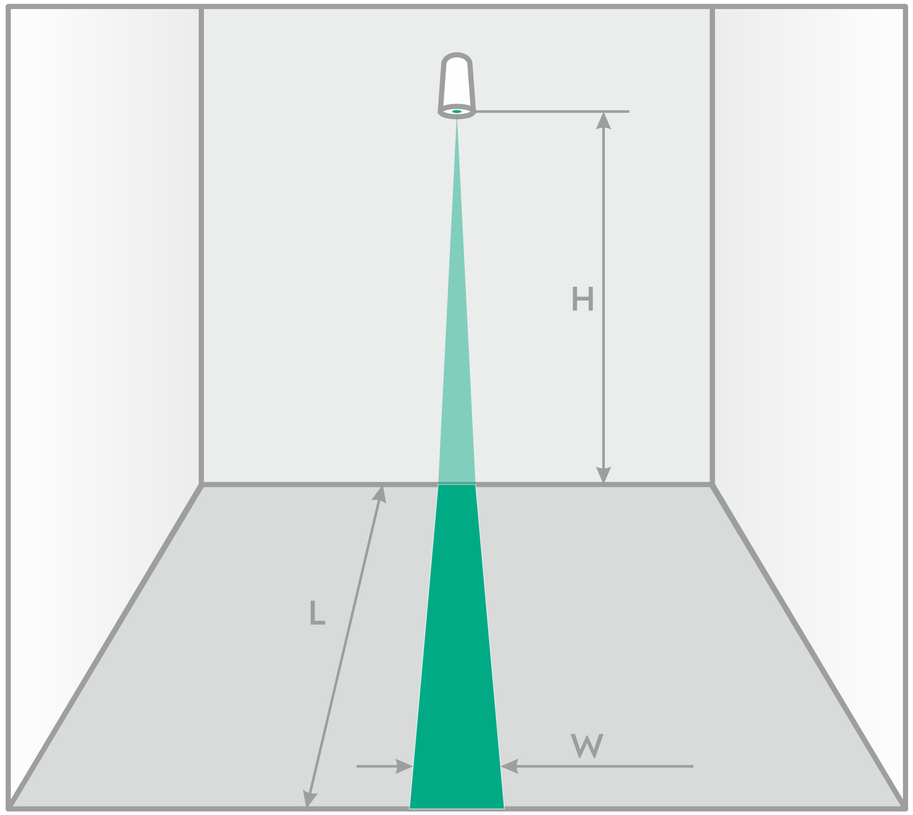


- **Brown Pin 1 – positive**
- **Blue Pin 3 – negative**

Pin 1 + (12 – 24V DC) – Brown wire color
Pin 3 – (12 – 24V DC) – Blue wire color
Pin 2 opto-isolated laser on/off +
Pin 4 opto-isolated laser on/off -

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Line Width & Length



Line Width (W), mm

Height (H), m	5,0	8,0	10,0	12,0
Line Width (W), mm	40	55	60	85

Line Width (W), in

Height (H), ft	17	26	33	40
Line Width (W), in	1,57	2,17	2,36	3,47

Line Length (L), m

Opening Angle, °	90	90	110	110
Distance, m	5	10	5	10
Approx. Line Length, m	10	20	14	28,5

Line Length (L), ft

Opening Angle, °	90	90	110	110
Distance, ft	16,4	32,8	16,4	32,8
Approx. Line Length, ft	32,8	65,62	45,93	93,50

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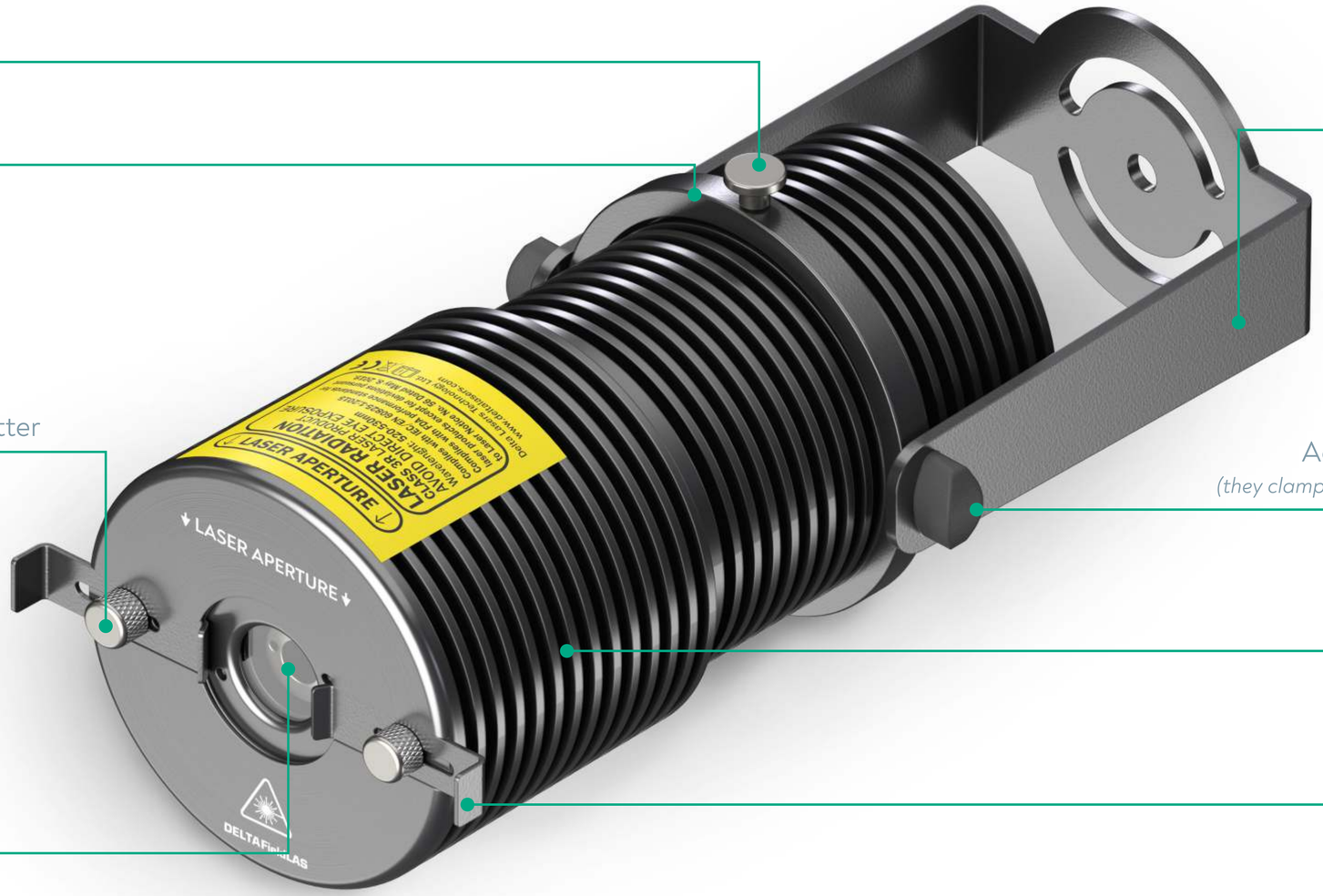
Unit Specifications

Precise rotation lock
of the laser with knobs

Bracket ring

Locking knobs for laser shutter

Laser Aperture



Mounting bracket
(for ceiling or wall mount)

Adjustment knobs of the laser tilt
(they clamp tight and prevent the laser from moving)

Aluminum body
(black anodized)

Laser shutter
(manual adjust the line lenght)

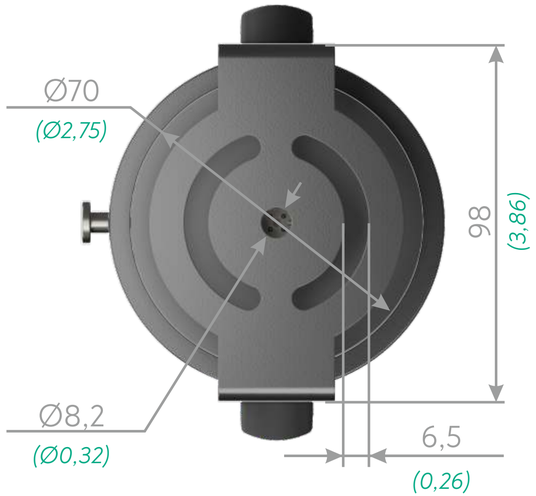
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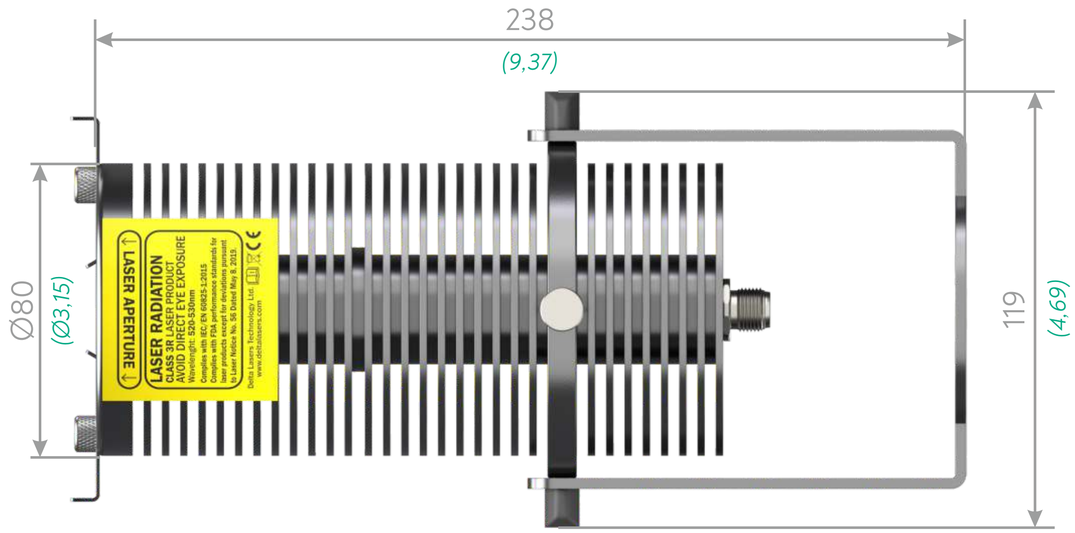
Drawing Specifications

All sizes are in mm *(inches)*.

Model

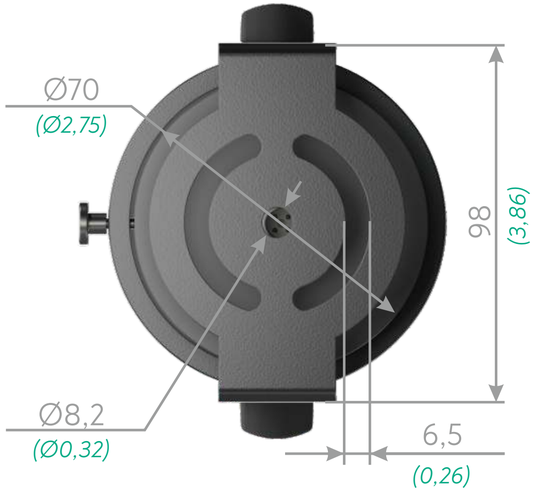
SKU: Delta FL 1200R

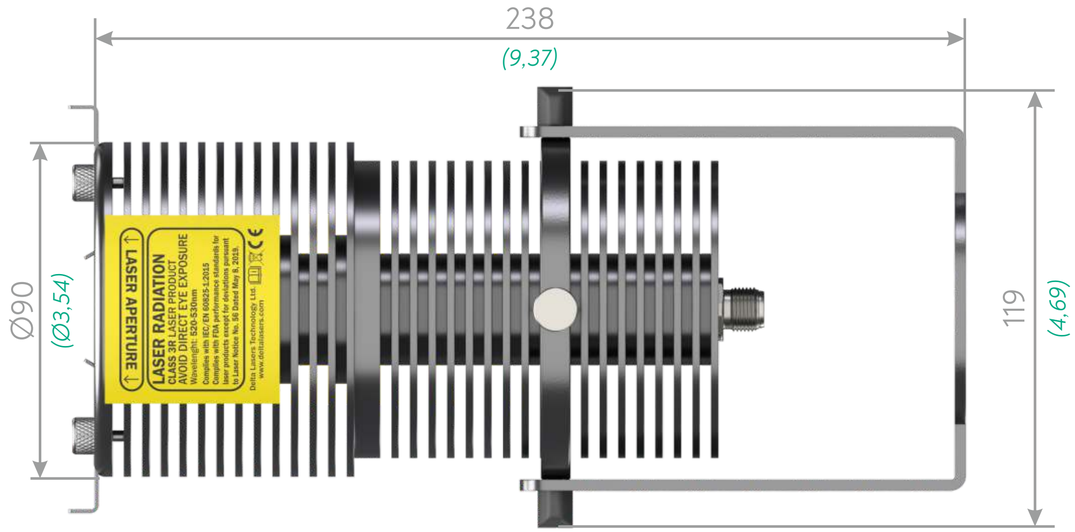




Model

SKU: Delta FL 1400G



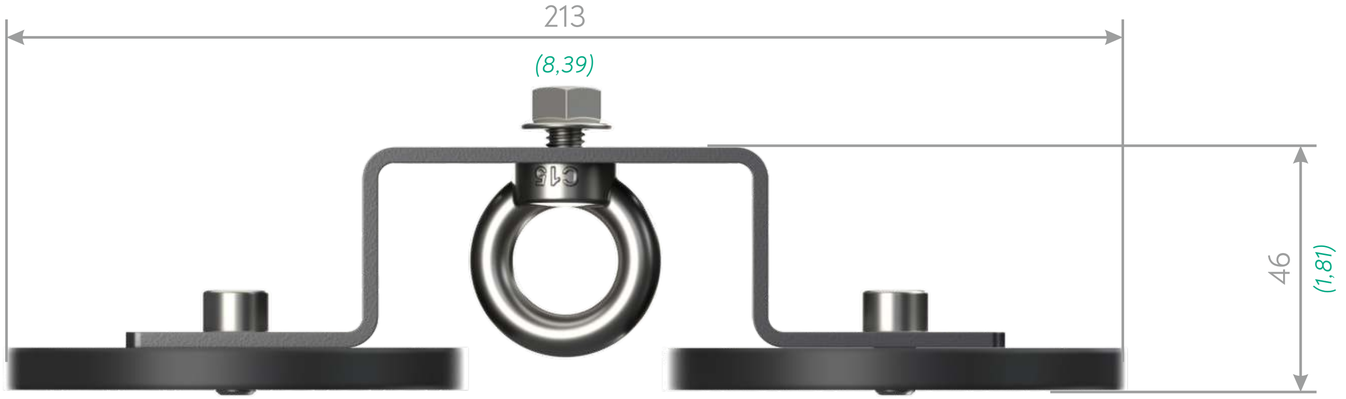


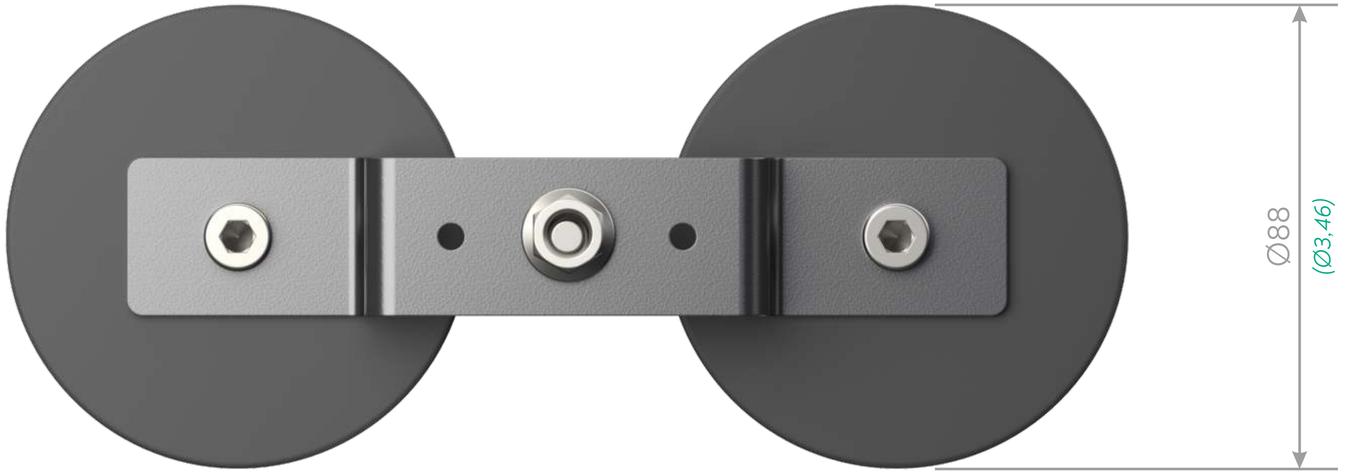
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Magnetic bracket

Order Code/SKU: FL-MAG88

All sizes are in mm *(inches)*.

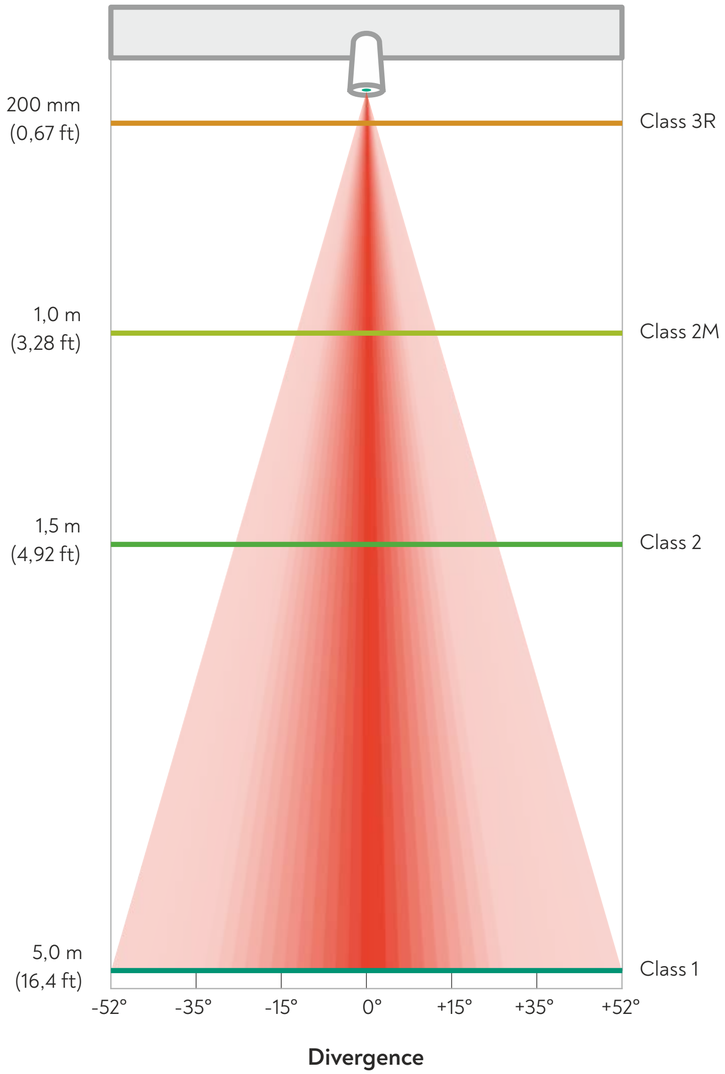






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Safety Specifications



General Safety Guidelines

Do not aim the laser line at the eyes. Use the device safely and responsibly.
Do not use magnifying tools (such as binoculars or magnifying lenses) to view the beam up close, as they may change the way the light appears.
Make sure the device is mounted securely to prevent any unwanted movement of the beam during operation.
Before installation, check that the housing and optics are in good condition. If you notice anything unusual, simply contact your supplier for assistance.
Follow the recommended mounting distances and alignment instructions to ensure the device performs optimally and within its intended safety class.

Handling and Maintenance

Installation should be performed by someone familiar with handling laser tools.
When cleaning or adjusting the device, switch off the power to ensure smooth and safe handling.
There is no need to open the device—the internal components are factory-protected and do not require access.
Keep the front window (laser aperture) clean and in good condition to maintain a clear and accurate laser line.
For cleaning, use a very soft cloth or cotton, or any other non-abrasive material to avoid scratching the glass.
Suitable cleaning agents include water or isopropanol (isopropyl alcohol).
Apply gently and avoid excessive pressure.

Degree of risk of harm

Class 3R	It's dangerous to look directly at the beam
Class 2M	Safe to use, but the use of magnifying glasses, telescopes and other optical equipment increases the danger.
Class 2	Use safely, but do not deliberately look at the laser beam.
Class 1	No harm



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User Manual / Safety and Installation Guide

This product guide contains essential information for the safe installation, operation, and maintenance of the Delta FieldLAS® industrial laser system. Please read all instructions carefully and keep this manual for future reference.

Safety: According to the latest guidelines in EN 60825-1, line lasers are so-called “extended sources” and can be treated more simply than normal bundled sources for spot lasers.

1. Safety Instructions:

→ Class IIIR Laser Product - Avoid direct prolonged eye exposure (do not stare directly at the beam).

→ Avoid direct or prolonged eye exposure to the laser beam.

→ Do not look at or stand in the path of the laser beam at any distance.

→ Nominal distance for eye safety 4 meters (take care when installing at close distances).

→ When unpacking and before discarding the carton packing, please check for any shipping damages before using the product. If there is any damage caused by transportation and transit, please consult the manufacturer immediately and do not use it. Failure to report and address transport-related damage before use will void the warranty.

The Delta FieldLAS industrial laser is a professional product designed for industrial use (e.g., replacing traditional road marking). It is not a toy.

2. Installation and Operation:

→ The product must be installed, operated, maintained, and connected to the electrical grid only by qualified and trained personnel.

→ Before installation, verify that the voltage and frequency of the power supply correspond to the product’s requirements.

→ Follow the installation instructions carefully and secure all parts firmly, including screws, brackets, grips, and mounts.

→ Do not connect the unit to any type of dimmers.

→ Do not project the laser onto reflective surfaces such as glass, mirrors, or metal objects.

→ Install the laser projector strictly according to the provided instructions.

→ Use the dedicated mounting bracket supplied for the product.

→ Fasten using 8–10 mm bolts with appropriate washers.

3. Cleaning and Maintenance

→ Keep the projector body and the front glass aperture clean. Use only cotton swabs, dry or moistened with isopropanol, or clean water. Do not use unapproved cleaning fluids.

→ When cleaning the glass surface, wipe several times in one direction, then repeat the process perpendicular to the first direction.

→ If the internal optics become contaminated, contact the manufacturer for instructions on how to clean the internal optics – do not attempt to open the device.

→ It is recommended to clean the aluminum housing if it becomes heavily dusty, as excessive dust can obstruct heat dissipation and reduce cooling efficiency.

→ If any part of the projector is damaged, stop using it immediately. All repairs must be performed by qualified personnel. If the product is within the warranty period, contact the manufacturer for repair or replacement.

4. Temperature Protection

→ The laser projector is equipped with active temperature monitoring and automatic intensity regulation. If the internal temperature exceeds the safe operating limits, the system will respond in one of the following ways:

→ Reduce the laser output intensity to protect the diode.

→ Shut down completely until the temperature returns to a safe operating level.

5. Temperature and Storage Requirements:

Operating Temperature

→ Do not use the system if the ambient temperature is above 45°C or below –30°C.

→ When using a model without a built-in heater, do not operate the laser below +3°C.

→ When using a model with a built-in heater, the laser can safely operate down to –30°C.

→ Storage temperature range: –40°C to +70°C

→ Storage humidity: 20% – 90% RH

6. Special notes

→ Laser radiation is dangerous to human eyes if the exposure is direct and prolonged. Avoid staring directly at the beam at close range.

→ DO NOT directly observe the laser light with any optical devices such as binoculars.

→ Remember to install the laser projector correctly. Damage during the installation will void the factory warranty.

→ As with any light source, when the laser projector is operating, it generates heat. Keep away from all flammable or combustible materials.

→ This product comes with a factory warranty of 24 month. Outside this period, we provide paid services for the maintenance or replacement of spare parts. Force majeure cases or user errors are not covered.

7. Electrical Connection

→ Follow all standards and requirements set by the local utility provider. Grounding of the device is legally required.

→ Always use the power supply provided with the product, as it is specifically selected and certified to meet the electrical requirements of the laser projector. If you choose to use your own power supply, ensure that it is fully compatible and will not damage the projector. The required electrical specifications can be found in the technical data sheet.

→ Disconnect the power plug before performing any maintenance. If the power cord needs replacement, use only an identical type supplied by the Support Center. Replacement must be performed by qualified specialists.

CE Conformity according to the directives 2015/30/EU

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