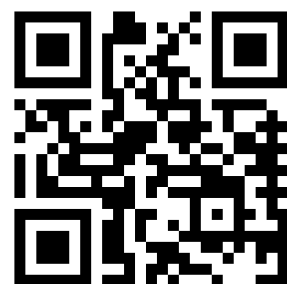




TOPLINE LASER

SAFETY SOLUTIONS

CATALOG



www.toplinelaser.com

INTRODUCTION

TOPLINE LASER is a leading provider of forklift attachments that are designed to improve the efficiency and accuracy of material handling operations. Founded in 2017, TOPLINE LASER has quickly established itself as a trusted partner to businesses around the world, providing innovative solutions that help organizations optimize their warehouse and logistics operations.

We understand the challenges faced by businesses in the material handling industry. That's why we have developed a range of laser-guided forklift attachments that make it easy for operators to position and place loads with precision, reducing the risk of damage to people or goods and improving overall efficiency.

At TOPLINE LASER, we are committed to providing our clients with the highest levels of quality and service. With our cutting-edge technology and innovative solutions, we help businesses achieve greater efficiency and productivity in their material handling operations.



TOPLINE LASER

Introducing the TOPLINE LASER attachment, a game-changer for forklift operations. This innovative device features a laser emitter mounted on the forklift, projecting a visible line or dot ahead of the vehicle. This laser guidance system provides precise visual cues, assisting operators in accurately picking up and placing loads with ease.

 **Breaking News:**
2024 Launches
LASER SMART CAM
alongside TOPLINE
LASER attachment!



LASER SMART
CAM



LASER SMART CAM combines advanced laser technology HD camera and ToF sensor to provide unprecedented precision and intelligence in forklift guidance. This cutting-edge system not only projects a laser beam like its predecessor but also integrates real-time HD video stream. Operators can now benefit from both laser-guided accuracy and visual HD stream, ensuring optimal efficiency and safety.

LASER SMART CAM

Join the future of warehouse logistics with our **LASER SMART CAM** forklift attachment. Experience unparalleled efficiency, safety, and productivity like never before.

Efficient
Safe
Productive

**HD
CAMERA**



**ToF
sensor**

- HD video quality over wireless stream
- HD camera and 7" HD monitor
- ToF (time of flight) sensor
- Smart camera and laser combo solution,
- Auto turn off after 2 min (without vibrations),
- Designed to resist heavy bumps,
- Robust metal body,
- Simple maintenance,
- Cable version available,
- Carriage classes: all available,
- Long working time – short maintenance,
- Made in the EU (Lithuania),
- 12 months warranty.

Dimensions

2A class - 490x140x62
2B class - 560x140x62
3A class - 590x140x62
3B class - 705x140x62
4A class - 790x140x62
4B class - 920x140x62

Laser Power

0.9-5mW

Video resolution

1024x600

Power supply

12 V/DC

Battery version

Li-Ion

Temperature range

+10...+40°C



LASER SMART CAM

Our attachment revolutionizes traditional forklift operations by integrating precision laser guidance with advanced HD vision systems.

Revolutionizing warehouse efficiency: Video-Laser-Guided forklift attachment powered HD wireless camera.

In the fast-paced world of logistics, optimizing warehouse operations is key to success. Introducing our groundbreaking solution: the HD Video Laser-Guided forklift attachment.

- **HD Vision:** equipped with state-of-the-art camera, laser and ToF sensor and our system continuously monitors the surroundings in real-time. It allows to identify obstacles on the fly, maximizing efficiency and safety.
- **Seamless Integration:** our attachment seamlessly integrates with existing forklifts, minimizing installation time and maximizing versatility. Whether it's pallet stacking, retrieval, or transportation, our solution enhances productivity across various warehouse tasks.

- **Enhanced Safety:** reduce the risk of accidents and collisions with intelligent obstacle detection and avoidance.
- **Increased Efficiency:** streamline warehouse operations with precise navigation.
- **Cost Savings:** boost productivity and minimize daily downtime, ultimately reducing operational costs.
- **Scalability:** our solution is scalable to accommodate diverse warehouse layouts and evolving business needs.



AUTO-TRIGGERED BY HEIGHT SENSOR



- Auto-triggered by the height sensor,
- Auto turn off after 2 min (without vibrations),
- Designed to resist heavy bumps,
- Robust metal body,
- 30sec to install – no special tools required
- Simple maintenance: battery charge x1 a week (2 shifts per day).
- Carriage classes: all available
- High visibility in daylight
- Long working time – short maintenance
- Made in the EU (Lithuania)
- 12 months warranty

Package contains:

- **TOPLINE LASER** (1 unit)
- **batteries** (2 units)
- **charger** (1 unit)
- **user manual**

Dimensions

2A class - 490x70x62
2B class - 560x70x62
3A class - 590x70x62
3B class - 705x70x62
4A class - 790x70x62
4B class - 920x70x62

Laser Power

0.9-5mW

Wave length

520 nm

Power supply

5 V/DC

Battery version

6.7 Ah (Li-Ion)

Temperature range

+10...+40°C



AUTO-TRIGGERED BY VIBRATION SENSOR



- Triggered by vibration sensor,
- Auto turn off after 2 min (without vibrations),
- Designed to resist heavy bumps.
- Robust metal body,
- 30sec to install – no special tools required
- Simple maintenance: battery charge x1 a week (2 shifts per day),
- Carriage classes: all available
- High visibility in daylight
- Long working time – short maintenance
- Made in EU (Lithuania)
- 12 months warranty

Package contains:

- **TOPLINE LASER (1 unit)**
- **batteries (2 units)**
- **charger (1 unit)**
- **user manual**

Dimensions

2A class - 490x70x62
2B class - 560x70x62
3A class - 590x70x62
3B class - 705x70x62
4A class - 790x70x62
4B class - 920x70x62

Laser Power

0.9-5mW

Wave length

520 nm

Power supply

5 V/DC

Battery version

6.7 Ah (Li-Ion)

Temperature range

+10...+40°C



MANUALY-TRIGGERED BY REMOTE CONTROL



- Triggered by remote control,
- Auto turn off after 2 min (timer),
- Designed to resist heavy bumps and vibration,
- Robust metal body,
- 30sec to install – no special tools required
- Simple maintenance: battery charge x1 a week (2 shifts per day),
- Carriage classes: all available
- High visibility in daylight
- Long working time – short maintenance
- Made in EU (Lithuania)
- 12 months warranty

Package contains:

- **TOPLINE LASER (1 unit)**
- **remote control (2 units)**
- **batteries (2 units)**
- **charger (1 unit)**
- **user manual**

Dimensions

2A class - 490x70x62
2B class - 560x70x62
3A class - 590x70x62
3B class - 705x70x62
4A class - 790x70x62
4B class - 920x70x62

Laser Power

0.9-5mW

Wave length

520 nm

Power supply

5 V/DC

Battery version

6.7 Ah (Li-Ion)

Temperature range

+10...+40°C



USE CASES

Standard TOPLINE LASER versions fit wide range of forklifts, including reach trucks, order pickers, and counterbalance forklifts. Few examples below of specific use cases of TOPLINE LASER devices.

Use Case	Solution
TOPLINE LASER with tilt sensor	Sometimes it is challenging to determine if the mast of the forklift truck is vertical or not exactly. In this case TOPLINE LASER with tilt sensor helps to identify when the vertical position of the mast is established.
TOPLINE LASER for cold store	The main challenge in a cold store environment is to ensure smooth forklift truck material handling operations using a laser device in harsh temperature range. TOPLINE LASER version for cold store allows working safely and efficiently in the refrigerator.
Guided unloading of the goods with TOPLINE LASER dual version	The challenge here is to have laser guidance when a pallet is on the forks which might be blocking the horizontal laser line. For this purpose TOPLINE LASER dual version (line and dot lasers) helps to solve this issue. When the line laser cannot be visible due to cargo on the forks the laser with a dot beam is visible under the pallet and allows to target needed level for safe and efficient unloading of the goods.
Targeting the center of the pallet with the TOPLINE LASER "cross" version	In cases where there is a need to target the center of the pallet while picking the cargo with the forklift truck TOPLINE LASER "cross" version creates this possibility. Having laser shape of "+" lets to have horizontal and vertical laser guidance where a vertical line can be adjusted to the center of the pallet.

SAFETY LINES



SAFETY LINES is a laser-based cost-effective floor marking solution, which is developed to allow to have total durability as there is no tear&wear of such lines together with very good visibility characteristics.

Safety Lines devices can be implemented as a part of automation ecosystem where a focus on safety is a top priority.

Laser lines can be green or red colour, the thickness of the line is possible to tailor according to customer's needs.

- Improved safety
- Increased visibility
- Cost-effective
- Easy to install
- Customizable
- Durable
- Low maintenance
- Flexible
- Easy to operate
- Non-intrusive

SAFETY LINES

Distance	Length of the laser line	Distance	Length of the laser line
1 m	2,9 m	6 m	17,1 m
2 m	5,7 m	7 m	20 m
3 m	8,6 m	8 m	22,9 m
4 m	11,4 m	9 m	25,7 m
5 m	14,3 m	10 m	28,6 m

USE CASES

SAFETY LINES enables a new way of laser lines marking for exceptional visibility, durability and integration to smart solutions.

Use Case

SAFETY LINES in automation scenarios

SAFETY LINES for outside area marking during night time

Solution

Using SAFETY LINES it becomes possible using laser to attract the attention of the employees by making automation scenarios where virtual lines can start operating when a person walks into a particular area. It can be combined with a movement sensor, gate controls or other devices.

SAFETY LINES have especially good laser visibility in dim or dark conditions and this allows making parking or perimeter marking of the area where usual marking becomes not that visible due to lack of daylight.

SAFETY SPOT

A safety sign LED projector is a device that projects safety signs and messages onto walls, floors or other surfaces. It is commonly used in industrial settings, construction sites and other workplaces where safety messages need to be clearly communicated to workers and visitors.



SAFETY SPOT projectors use LED lights and can project any safety signs and messages, such as caution signs, emergency exit signs, directional arrows and warning messages. They can be produced with different colours, shapes and fonts to enhance visibility and grab attention.

The use of SAFETY SPOT projectors can help improve workplace safety by making important safety information more visible and prominent, especially in low-light conditions. They can also be more cost-effective than traditional signage due to low maintenance needed, as they can be easily adjusted.



SAFETY SPOT

SAF-110

10 W



STATIC

LED

SAF-110 model is recommended for office premises since it is designed for ceiling mounting and is optimal for smaller projection distances.

- Extreme brightness level
- Designed for intense pedestrian/small vehicles traffic
- Low budget solution
- No maintaining costs
- Designed for retail/warehouse/etc.
- Any other signs for your needs (shape, color, design)
- 12 months warranty



LED power

10 W

Indoor

Yes

Outdoor

No

Sign rotation

No

Installation

Ceiling mount

Image customization

Any design

SAFETY SPOT

SAF-450

20 W



LED

SAF-450 model has an image rotation function which ensures image visibility in the industrial environment.

- Rotating illuminated warning sign
- Extreme brightness level
- Designed for intense pedestrian/small vehicles traffic
- Low budget solution
- No maintaining costs
- Designed for retail/warehouse/etc.
- Any other signs for your needs (shape, color, design)
- 12 months warranty



LED power

20 W

Indoor

Yes

Outdoor

Yes

Sign rotation

Yes

Installation

Ceiling/Wall mount

Image customization

Any design

SAF-700

SAFETY SPOT

80 W



LED

SAF-700 model helps to make the best visible sign with rotation function where mounting is made in higher distance.

- Rotating illuminated warning sign
- Extreme brightness level
- Designed for intense pedestrian/small vehicles traffic
- Low budget solution
- No maintaining costs
- Designed for retail/warehouse/etc.
- Any other signs for your needs (shape, color, design)
- 12 months warranty



LED power

80 W

Indoor

Yes

Outdoor

Yes

Sign rotation

Yes

Installation

Ceiling/Wall mount

Image customization

Any design

SAFETY SPOT

SELECTION GUIDE

Model	SAF-110	SAF-450	SAF-700
LED power	10 W	20 W	80 W
Indoor	Yes	Yes	Yes
Outdoor	No	Yes	Yes
Sign rotation	No	Yes	Yes
Installation	Ceiling mount	Ceiling/Wall mount	Ceiling/Wall mount
Image customization	Any design	Any design	Any design

Distance vs size

Max image sizes at distance of	SAF-110	SAF-450	SAF-700
1 m	0,37 m	0,37 m	0,6 m
2 m	0,743 m	0,743 m	1,2 m
3 m	1,11 m	1,11 m	1,8 m
4 m	1,48 m	1,48 m	2,4 m
5 m	1,85 m	1,85 m	3 m
6 m	2,22 m	2,22 m	3,6 m
7 m	2,59 m	2,59 m	4,2 m
8 m	2,96 m	2,96 m	4,8 m
9 m	3,33 m	3,33 m	5,4 m
10 m	3,7 m	3,7 m	6 m



SAFETY SPOT

USE CASES

SAFETY SPOT projectors have a wide range of applications helping to increase safety in the particular area.

Use Case	Solution
SAFETY SPOT in automation scenarios	SAFETY SPOT projectors are the ideal solution for situations where attention and automation must be combined. The projector can be turned on, turned off, blink etc. when there is an automation scenario implemented. It might be connected to wide range of devices and many creative scenarios helps to ensure an even better level of occupational safety.
SAFETY SPOT on cranes marking danger zone	SAFETY SPOT can be used on cranes by marking danger zone when the crane is operating.
SAFETY SPOT on industrial machines	SAFETY SPOT can operate from 12-24 VDC power supply which allows connecting the projector to the machine and project needed message: warning sign, safety/danger zone or the particular message for the machine operator.



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