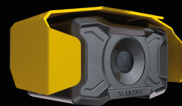


BLAXTAIR®

AI-POWERED CONNECTED SOLUTIONS TO IMPROVE
INDUSTRIAL SAFETY & PRODUCTIVITY



blaxtair.com



Your target: Zero accidents & enhanced productivity

Take your forklifts and heavy equipment
to the next level with genuine AI



Blaxtair Solutions



OSHA Checklist _____ Pg. 4



Pedestrian Detection ____ Pg. 5



Vehicle Detection _____ Pg. 6



Specific Obstacle
Detection _____ Pg. 7



Shock Detection _____ Pg. 8



Zoning _____ Pg. 9



Dashboard _____ Pg. 10



AHD _____ Pg. 11

OSHA Checklist

Pre-startup vehicle safety review



OPTIMIZATION OF VEHICLE AVAILABILITY

- Maintenance operators are quickly **alerted** to fleet status so that necessary repairs can be **made proactively**
- Minimizes repair time & unplanned downtime

VEHICLE FLEET STATUS

VEHICLE NAME	CHECKLIST RESULTS
Vehicle No1	✓ Passed
Vehicle No2	✓ Passed
Vehicle No3	✗ Failed

CUSTOMIZABLE SOLUTION

- Customizable question list
- Includes **diverse questions**, covering all **crucial aspects**

BLAXTAIR

Any fuel, engine oil, or coolant leaks?

NO YES

Are the forks free of cracks?

NO YES

Do all fluid levels pass inspection?

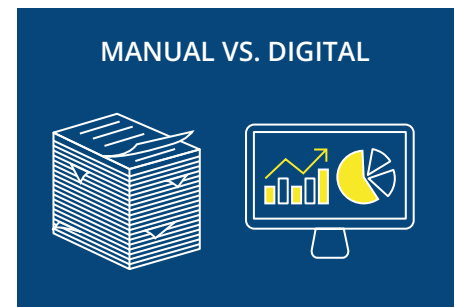
YES NO

Does the forklift position the forks correctly?

NO YES

EASY ACCESS / EASY MANAGEMENT

- **Real-time & centralized overview** of the entire **vehicle fleet status**
- **Access control**: driver identification by code
- **Reports automatically digitized and effortlessly accessible** (vs. a manual record, which can be incorrectly completed and lost)



IMPROVED WORKPLACE SAFETY

- The vehicle won't start if a **critical safety question** is not answered correctly (option)
- Complies with **OSHA regulations**
- Provides **total peace of mind** to operators and their employers
- Enhances **driver awareness**



Play the video!



Blaxtair Checklist solution is available as stand-alone or in addition to the 'Blaxtair Pedestrian Detection' anti-collision solution

Pedestrian Detection

AI for saving lives



THE MOST ADVANCED PEDESTRIAN DETECTION SOLUTION TO ENHANCE SAFETY

- The only industrial-grade AI camera able to **detect and localize pedestrians in real time**
- Alerts the driver to danger and helps to **prevent serious accidents** on industrial sites
- Detects **any posture** (standing, crouching, partial view) to prevent collisions with forklifts / heavy equipment, whether **driving forward or in reverse**
- **Localization (USP): Constant danger zone**, regardless of **mast inclination**

Play the video!



DASHBOARD ANALYTICS FOR PROACTIVE ACTION ON ACCIDENT RISKS

- **Monitors & reduces the risk of vehicle/pedestrian accidents by a factor of 3**
- Highlights **the most dangerous machines** and determines **the time and place where the risk of accident is highest**
- **Measures the effectiveness of the preventive actions implemented** to prevent accidents between vehicles & pedestrians



INCREASED PRODUCTIVITY & BETTER WORKING CONDITIONS

- Generates **only relevant alerts** for the driver, avoiding nuisance alarms and alarm fatigue
- **Avoids incurring costs** related to down-time, workplace accidents or fatalities



What the driver sees:
a lot of blind spots!

COMPACT, ROBUST & EASY TO INSTALL

- Operational in **harsh and tough environments**
- **Waterproof and dustproof** (IP69K sensor head)
- Compatible with **all types and brands of industrial vehicles** (forklift trucks, wheel loaders, excavators, etc.)
- **Compact and easy to integrate**
- **Future-proofed: online maintenance & remote software updates**



What Blaxtair detects and localizes:
the crouching pedestrian



Vehicle Detection

Vehicle/vehicle collision avoidance



ENHANCED SAFETY

- Detects and localizes vehicles in close proximity in real time to **prevent collisions**
- Alerts the driver to danger and helps to **prevent serious accidents** on industrial sites
- Ensures a **safer working environment**



What the driver sees:
a lot of blind spots!

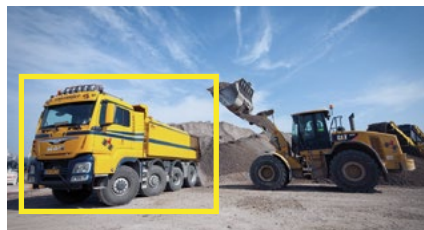
OPTIMIZATION OF OPERATIONAL PROCESSES

- Enhances vehicle availability & generates savings by preventing property damage and personal injury
- Improves **operational efficiency**



What Blaxtair detects and localizes:
the MPV / combispace

EXAMPLES OF USE CASES



Trucks driving around loaders or excavators at a recycling site



Delivery or service vans on an industrial site



Forklifts that operate simultaneously around others in a warehouse



On-road vehicles around dumpers in a quarry

Play the video!



Specific Obstacle Detection

Vehicle/obstacle collision avoidance



ENHANCED SAFETY

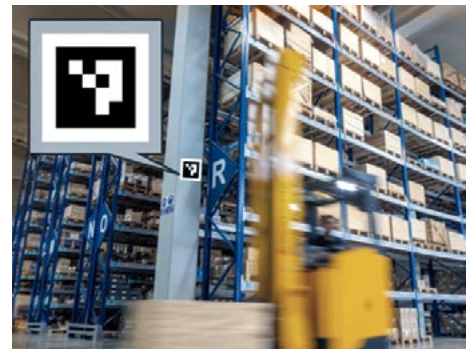
- Detects and localizes specific obstacles around vehicles in real time **to prevent collisions**
- Alerts the driver to danger and helps to **prevent serious accidents** on industrial sites
- Ensures a **safer working environment**

OPTIMIZATION OF OPERATIONAL PROCESSES

- Enhances vehicle availability & generates **savings** by preventing property damage and personal injury
- Improves **operational efficiency**

EXAMPLES OF USE CASES

CONCRETE PILLAR



ROLLING DOOR



Shock detection

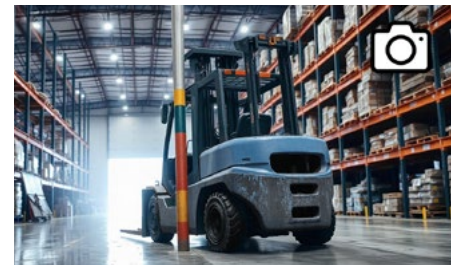
Prevention of impact damage

ENHANCED SAFETY

- Detects **vehicle shocks** from impacts with poles, racks, pallets, etc
- **Video recording & snapshots of shocks to make impacts visible**
- **Prevents serious accidents** that can occur following impacts
- **Provides a digital output** to act on the vehicle in the event of a shock: automatic speed limitation, visual and/or audible alarm, etc
- Increases **operator accountability** & encourages **safe driver practices**



Make impacts visible with video recordings & snapshots



OPTIMIZATION OF OPERATIONAL PROCESSES

- Enhances **vehicle availability & generates savings** by preventing property damage
- Improves **vehicle reliability**, keeping the fleet in very good condition, which **extends the lifespan** of the vehicles

DASHBOARD ANALYTICS FOR PROACTIVE ACTION ON ACCIDENT RISKS

- **Monitors shock detections** in real time
- **Analyzes** the source of damage and decision-making based on relevant data: **localization of shocks, detection times, vehicles involved, severity of impacts, visual evidence (photos and videos)** of incidents, etc.
- **Measures the effectiveness of the preventive actions implemented** to prevent damage due to vehicle impacts

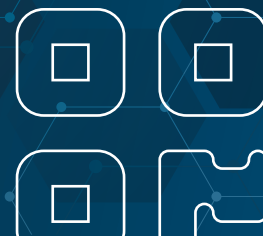


Play the video!



Zoning

Automatic speed limitation in risk areas



REDUCTION IN ACCIDENT RISK

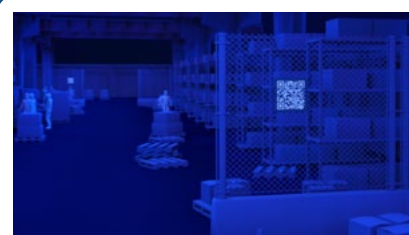
- Automatic limitation of forklifts to a safe speed in high-risk areas
- Normal speed is applied again for areas with less risk
- Risk of accidents is significantly reduced



Play the video!

INCREASED EFFICIENCY

- Automatic speed limitation eliminates the need for drivers to suddenly stop and restart their vehicles, streamlining workflow
- Improves operational efficiency



QR code to limit vehicle speed

SIMPLE IMPLEMENTATION

- The solution is revolutionary and cost-effective, eliminating the need for heavy radiofrequency-based infrastructure



QR code for the vehicle to return to normal speed

CUSTOMIZABLE SOLUTION

- Can personalize forklifts speed according to the specificities of each work zone and to the unique requirements of each site, ensuring optimal safety and productivity

EXAMPLES OF HIGH-RISK AREAS

- Areas with high vehicle/pedestrian co-activity
- Narrow aisles
- Dangerous intersections
- Doors
- Loading/unloading docks



12km/h
Area at
normal speed



6km/h
Area of high co-activity
at limited speed



12km/h
Area at
normal speed

Example of speed limitation

Dashboard

Safety & productivity analytics

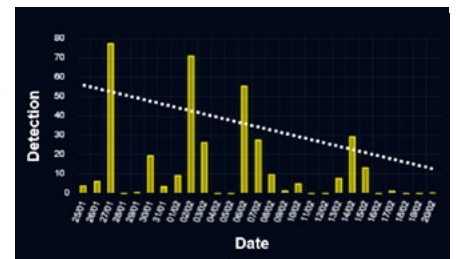


- Most-advanced, cloud-based & integrated **fleet management solution** for **safer, more efficient and profitable operation**
- Relevant dashboard metrics/KPIs to make **data-driven decisions** with ease
- A **proactive approach to safety and productivity** that allows companies to **prioritize, take actions** on their organization and **measure their efficiency**



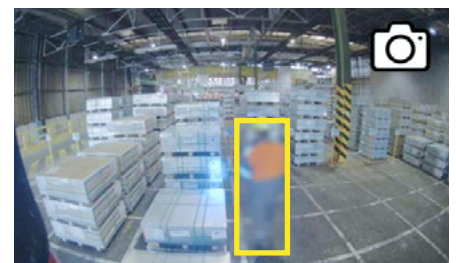
ENHANCED SAFETY TO ACHIEVE THE 'ZERO ACCIDENTS' OBJECTIVE

- Monitors & reduces the risk of vehicle/pedestrian collisions by a factor of 3
- Measures and identifies risk levels, dangerous machinery, locations and times with a high probability of accidents
- Makes the impacts visible with visual evidence: Video recording & snapshots of shocks
- Real-time safety compliance tracking for Checklists



INCREASED PRODUCTIVITY & PERFORMANCE TO STAY AHEAD

- Optimizes operations by identifying areas of improvement
- Enhances vehicle availability by ensuring continuous improvement in maintenance compliance



GENERATED COSTS SAVINGS

- Reduces costs related to accidents and damages through preventive actions
- Provides up-to-date information on the status of the vehicle fleet for predictive maintenance

Play the video!



VEHICLE NAME	CHECKLIST RESULTS
Vehicle No1	✓ Passed
Vehicle No2	✓ Passed
Vehicle No3	✗ Failed

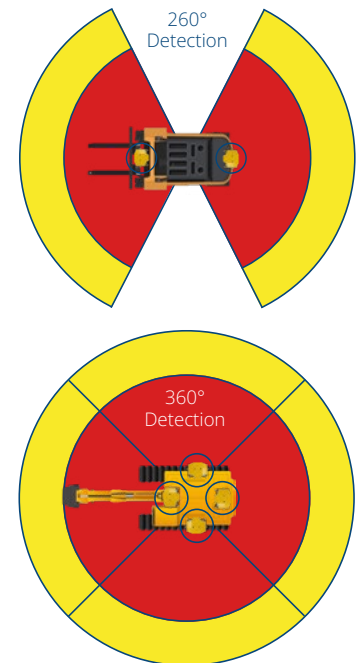
AHD

Pedestrian detection from 130° to 360°



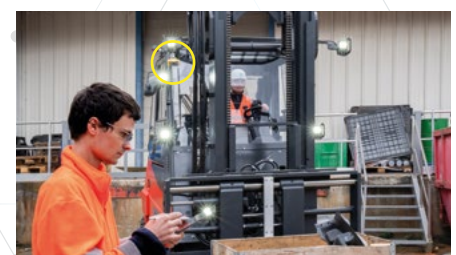
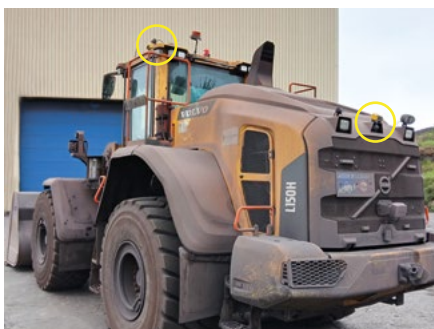
ENHANCED SAFETY

- **Detection up to 360°** around mobile equipment: forklifts, excavators, loaders, etc.
- **Easy & quick installation**
- **7" (MR260) or 10" (MR390 / MR520) waterproof display**
- **Video recording (10")**: storage capacity of 250 hours per camera
- The only industrial-grade AI camera able to **detect and localize pedestrians in real time**
- Alerts the driver to danger and helps to **prevent serious accidents** on industrial sites
- Detects **any posture** (standing, crouching, partial view) to prevent collisions with forklifts / heavy equipment, whether **driving forward or in reverse**



INCREASED PRODUCTIVITY & BETTER WORKING CONDITIONS

- Generates **only relevant alerts** for the driver, avoiding nuisance alarms and alarm fatigue
- **Avoids** incurring **costs** related to downtime, workplace accidents or fatalities



With Blaxtair, Save Lives and Improve Productivity on Your Sites!

**50+ COUNTRIES
ADDRESSED**

**2,500+
EQUIPPED SITES**

- HQ, R&D & Production: France (since 2009)
- Subsidiary: USA (since 2019)
- Sales offices: Germany, Spain, UK



ABOUT US

- Founded in 2009
- Pioneer of embedded AI, smart vision & pedestrian proximity detection
- Mission: to work for safety & productivity in industry using perception technologies

blaxtair.com



BLAXTAIR®

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& IMPROVE PRODUCTIVITY ON YOUR SITES!



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