

PARGOS

Forklift Risk Detection & Accident Prevention System

EVERYTHING WILL BE PINE

PINE



PARGOS(Forklift safe management system) that uses AI technology to detect human and dynamic obstacles in real time to notify the forklift driver of the risk of a collision avoidance

Forklift operation monitoring and collision warning system

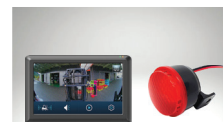


Dynamic obstacles recognition and danger notification

- AI-based moving object detection(human, forklift) through front/rear camera
 - Step-by-step collision alarm distance setting
- AI console-based front and rear danger situation notification
- Additional notification using warning lights/alarm tones

Real-time recording and post-analysis of camera video

- Forklift operation video, collision video, human approach detection video recording and viewing function (AI console)
 - Forklift operation video recorded video playback
 - View the time of occurrence of safety-related events (prohibited access, collision) and play recorded video



AI console/warning light

- Built-in AI dedicated controller
- 10 inch touch screen
- Human, forklift recognition module
- Warning light/alarm notification



Front/Rear/Fork camera

- 170 degree ultra wide camera
- Minimize blind spots



AI server

- Remote control server(Option)



Forklift Risk Detection & Accident Prevention System

Specification

Product composition

AI Console



Ultra wide angle camera



AI Server (Opt)



Product Features

- Application of AI platform
 - Simultaneous detection of forklifts and workers (work clothes, plain clothes) - AI-based moving object detection(human, forlift) through front/rear camera
- Function expansion and easy maintenance through modularization
 - Modularization of major parts
 - Mechanical design and cable considering forklift structure/vibration
- Built-in large-capacity memory card for recording/playing driving videos and dangerous situations (default 128GB)
- Power supply stabilization function
 - PMS(Power Management System) application
 - Console/camera stable power supply and data backup
- LCD monitor-based forklift black box function
 - Check actions when safety-related events (approach detection, collision) occur
 - Recording/playing driving video and safety event video
- Warning light/alarm sound for driver alarm notification
- 170 degree ultra-wide-angle camera (minimize blind spots by applying front/rear camera)
- Camera protection cap for waterproof/dustproof
 - Camera lens dust management and waterproof function
- Bracket/harness considering moving front/rear/fork camera
- Network and control server
 - Forklift related event storage/playback and information control
 - Use of follow-up safety management

Main Function

PARGOS

Composition	AI Console(Deep Learning Algorithm) + Camera + Alarm device
AI Engine	TPU
Detection Object	Human + Forklift + Moving Object
Detection Distance	1m ~ 10m (Variable)
Video Recording Memory	128GB (Max. 512GB)
Camera	170 degree ultra-wide-angle (Resolution 1,280×720)
Display	10 inch touch screen LCD
Alarm Device	LCD flashing/warning light/alarm sound
Scalability	<ul style="list-style-type: none">- Network and control SW- Forklift dangerous situation information control

* Changing the camera installation location according to customer request





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