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PEDESTRIAN AWARENESS CAMERA SOLUTION BROCHURE



SUPPORTS OPERATOR AWARENESS

The Hyster® Pedestrian Awareness Camera, part of the Hyster Reaction™ lineup of operator assist technologies, is meant to support operator awareness by alerting the operator when a pedestrian is detected within the camera's detection range.

Mounted on the rear (forks trailing side) of the lift truck, the pedestrian awareness camera has a 110 degree field of view. The camera can accurately identify humans at a range of up to 5 metres, depending on application conditions. Upon identification of a pedestrian within the field of view, audible, visual and optional traction alerts will engage to further aid the operator across many situations.

STANDARD

AUDIBLE

The system audibly alerts the operator by stating "Pedestrian within 5 metres."

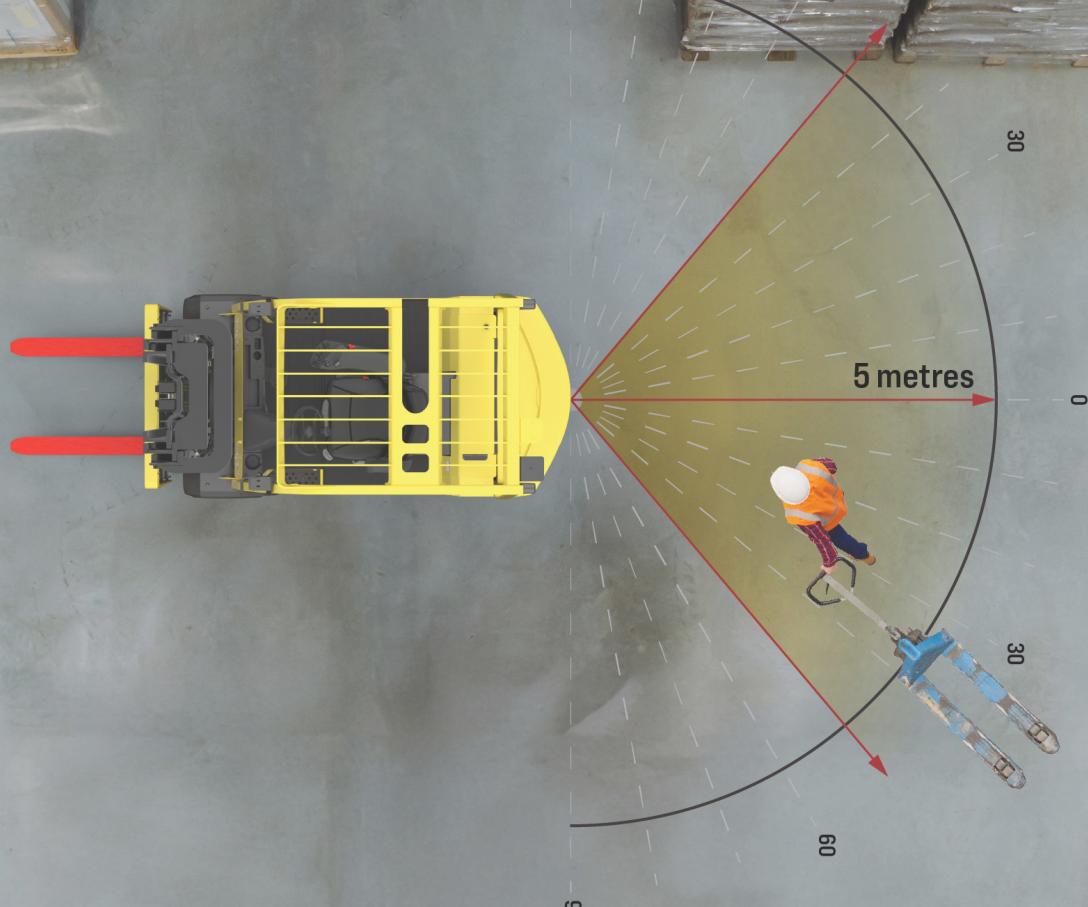
VISUAL

The display mounted inside the truck shows the zone in which the detection occurred.

ADVANCED

TRACTION

Operator will feel gradual deceleration.
Experience can vary depending on forklift type.



When do audible, visual and traction alerts disengage?

Alerts disengage when pedestrians are no longer detected in range and in view of the camera.

How can the operator view the position of detected pedestrians?

Operators should always identify the pedestrian visually with their eyes. The display mounted inside the truck compartment provides an aid to assist operators in understanding where the detection occurred after the operator brings the truck to a stop.

Are multi-camera options available, such as with detection on the forks-forward side?

Yes, the two-alert (audio & visual alert) system is available with multiple cameras as a field-installed option. To learn more about two or three-alert factory-installed multi-camera systems, contact your Hyster Dealer.

Can the system be used both indoors and outdoors?

Yes, the pedestrian awareness camera adapts to various lighting and environmental conditions; however, complete darkness is a challenge for any vision system.

Can the system be installed on existing forklifts in my fleet?

Yes, the two-alert system can be installed on any forklift. The three-alert system can be installed on Hyster forklifts meeting configuration requirements, that are in good working condition and are less than 5 years old.

Is it possible to alter the placement of the alert display?

The factory will install the alert display in a standard position based on truck model. Consult with your Hyster dealer regarding any possible changes to the location.

Is it possible to have the audible alert be in various languages?

No, the audible alert is only available in English.

Is it possible for the system to be used in cold storage?

Yes, however, travelling in and out of cold storage areas could lead to condensation on the lenses. If the camera view is obstructed, the display will alert the operator of reduced functionality.

OPERATOR RESPONSIBILITY

Operator awareness of surroundings is vital in safe and productive material handling practise. The Pedestrian Awareness Camera system is intended to provide an additional tool to leverage in appropriate applications to help support situational awareness of operators.

The system leaves control of the lift truck in the hands of the operator while alerting. Because the system cannot respond in every situation, it is the operator's responsibility to **always** be attentive, look in the direction of travel and follow proper operating procedures and all site-specific rules to avoid property damage and injury.*

To develop the skills required to operate a lift truck in a safe and efficient manner, the operator must:

- Receive training in the proper operation of the lift truck
- Understand the capabilities and limitations of the truck
- Become familiar with the construction of the truck, and keep it maintained and in good condition
- Read, understand and follow the warnings and operating procedures in the applicable operating manuals

SYSTEM LIMITATIONS

All object and pedestrian detection systems have technology limitations. It is important that owners and operators of lift trucks understand the limitations of the systems they purchase and operate.

The Hyster Pedestrian Awareness Camera system can have up to 300 milliseconds of latency between the time of identification and any alert, and an additional 600 milliseconds or more of latency to process and engage the traction alert, depending on the truck model. If the lift truck is travelling at any speed, reduced reaction time for the operator will occur.

The system is optimised for travel speeds at 8 km/h or less to give the operator ample time to identify the alerts provided and avoid contact. Once the identified pedestrian is no longer in view of the pedestrian awareness camera, alerts are disengaged.

DETECTION FUNCTIONALITY

The Pedestrian Awareness Detection system has been developed to capture humans in various positions. Its ability to identify humans is highly accurate; however, it may not always be possible to recognise a human as a pedestrian in the following situations.



Standing by a wall



Holding an object



Running



Partially hidden



Shorter than 150 cm
Taller than 190 cm



Squatting



Blending in with background

* Failure to maintain a proper lookout and full control of the truck (including its load) at all times can result in death, serious injury or property damage.



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