

# OPTRONICS ESP



## Passive & Active Object Detection

The seamless integration of  
vision and detection







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ESP

OBJECT DETECTION

# Sensing a new vision

Rear view CCTV systems have been a part of every day life for a number of years on many industrial sites. As such, driver complacency is now an important factor to consider when selecting the correct visibility solution for work equipment. The driver may be so accustomed to glancing at the monitor of a CCTV system that, at a critical time, he does not notice a person or object behind the vehicle within the image.

Optronics ESP takes the rear view CCTV system to the next level of safety by seamlessly integrating it with object detection radar. The monitor mounted within the cab permanently displays rearward vision, much like a rear view mirror. On selection of reverse gear the radar system becomes activated. If a person or object is detected, the driver is alerted by both an audible warning and visual distance markers overlaid on the image on the monitor. Optronics ESP thereby gives the driver an all encompassing alert to potential hazards behind the vehicle.

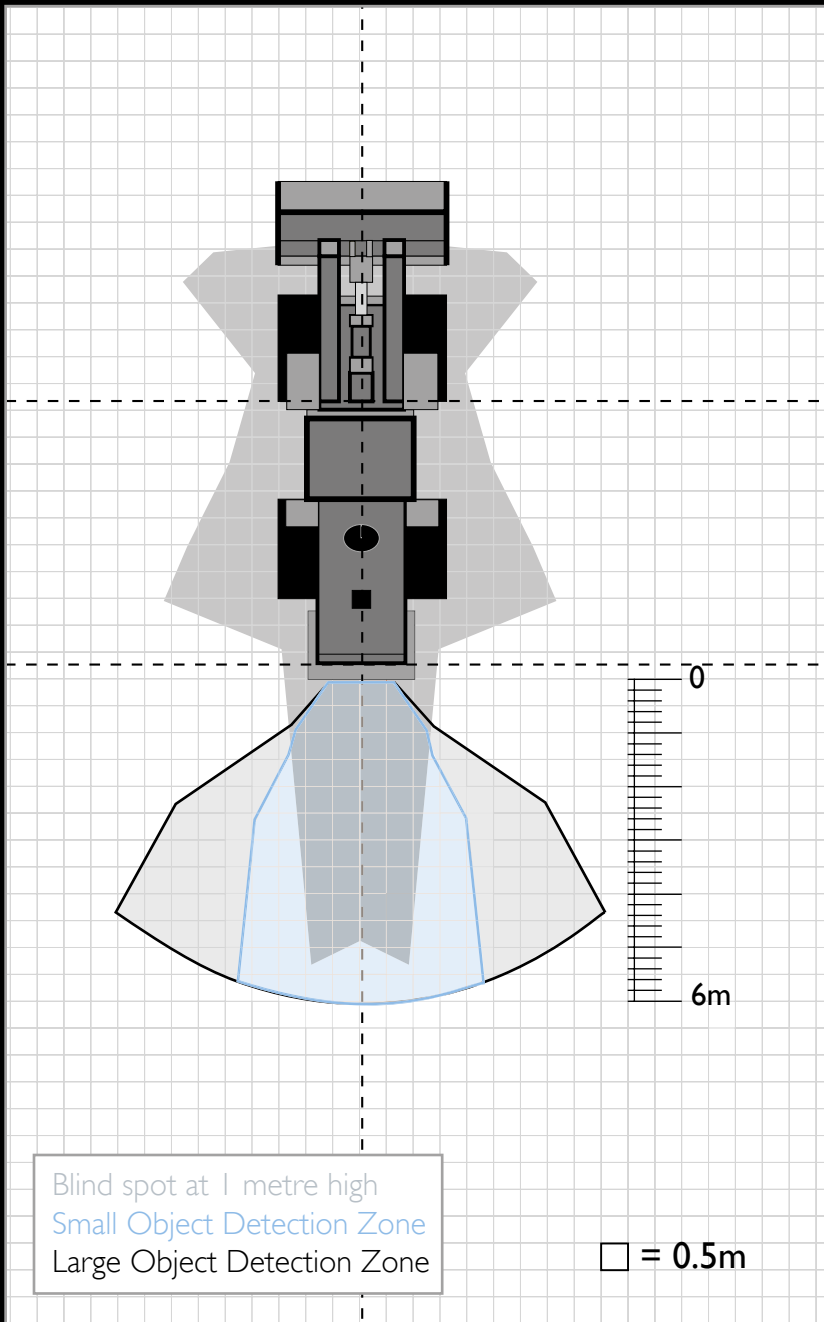
COMPARISON OF OBJECT DETECTION SYSTEMS					
Characteristics	Optronics ESP	Doppler Radar	Ultrasonic	Laser	Infrared
Detects stationary objects	yes	no	yes	no*	no*
100% detection of all objects	yes	yes	no	no	no
Detects multiple objects	yes	yes	poor	poor	yes
In-cab display	yes	yes	yes	yes	yes
Daylight	yes	yes	yes	yes	poor
Sunlight glare	yes	yes	poor	poor	no
Darkness	yes	yes	yes	yes	yes
Dirt / Mud	yes	yes	no	no	no
High wind	yes	yes	no	no	no
Rain / Snow / Sleet	yes	yes	no	yes	no
Low maintenance	yes	yes	no	no	no
Easy installation	yes	yes	yes	no	no
Large coverage area - 5m+	yes	yes	no	no	no
Audible alarm	yes	yes	yes	yes	yes
Visual clarification	yes	no	no	no	no

\* Configuration Dependant

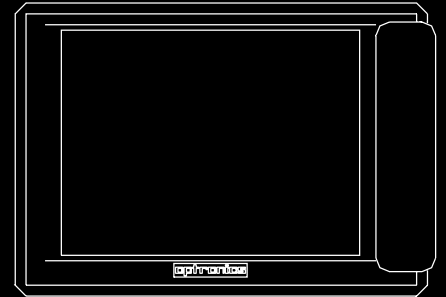
VISION  
DETECTION  
COMFORT  
RESTRAINT  
WARNING  
CONTROL



## Detection Zone



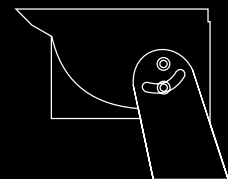
Monitor



Sensor



Camera



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