High-tech solutions
for *efficiency* and *safety*

Kiwitron

SMART INDUSTRY SOLUTIONS

ETS Range - *Electronic Telematic Solutions*

Multi-brand fleet management system

Kiwitron
SMART INDUSTRY SOLUTIONS

ETS ONE
Black box
for data collection

ETS ADVANCED
Datalogger
with RFID badge

ETS TOUCH
Datalogger
with touch display

ETS ONE	ETS ADVANCED	ETS TOUCH
GPRS/LTE - GPS/GNSS localisation	GPRS/LTE - GPS/GNSS localisation	GPRS/LTE - GPS/GNSS localisation
CAN bus/RS232 protocol	———	———
———	Access control with RFID badge	Access control with RFID badge or pincode
Accelerometer (collisions/tilt) Optional: electrolyte/current sensor	Accelerometer (collisions/tilt) Optional: electrolyte/current sensor/KiwiBat	Accelerometer collisions/tilt) Optional: electrolyte/current sensor/KiwiBat
Hours of work Battery analysis (up to 24V)	Hours of work Battery analysis (up to 120V)	Hours of work Battery analysis (up to 120V)
	• Integration with devices of: • Safety Risk Mitigation • Logistics optimization • Zone detection	• Integration with devices of: • Safety Risk Mitigation • Logistics optimization • Zone detection
Sending data to Kiwisat portal	Sending data to Kiwisat portal	Sending data to Kiwisat portal
SIM data sending	SIM and WI-FI data sending	SIM and WI-FI data sending
———	Heatmaps feature	Heatmaps and checklist feature

Kiwisat

In cloud Fleet Management system

New dashboard

The new simple and intuitive dashboard shows all useful information on the status of the fleet.

Planned and predictive maintenance

Maintenance tickets can be managed and interventions can be planned.

Heatmaps

The 'heatmaps' feature allows near-misses to be monitored and high-risk areas to be shown and managed.

Statistics and reports

Thanks to customized reports and system-generated statistics, it is possible to measure the efficiency and productivity of the vehicles.

Kiwisat

Kiwisat shows where the vehicles are and what they are doing, providing useful real-time information on the driving status of the operators and the condition of the vehicles.

- **Open APIs** (bi-directional for external WMS/ ERP/ MES integration)
- **Multilingual** (Italian, English, French, German, Spanish, Polish, Romanian etc.)
- **Customisable**

Kiwisat cloud generates statistics referring to users, vehicle use and operator checklists.

Kiwisat shows the current state of the fleet and real time data (location, working hours, battery use, collisions, alarms) can be displayed and allows you to plan maintenance remotely.

Heatmaps

Visualisation of high-risk areas

Vehicles equipped with Kiwitron Safety Risk Mitigation devices send a log whenever a near-miss occurs.

KiwiSat portal processes this information by date and location, generating a map of dangerous areas.

Area colour changes according to how often incidents occur in that specific area (green, yellow, red).

KiwiEye

Patented AI system
for the detection of pedestrians, vehicles and signs

Highly precise
90° field of view and detection up to 25 m (82 feet) away.

Practical and safe
KiwiEye selectively detects all types of obstacles without the need of pedestrian tags.

Collision prevention
Near-miss analysis (missed incidents) by cross-checked data collected from ETS range.

Highly resistant
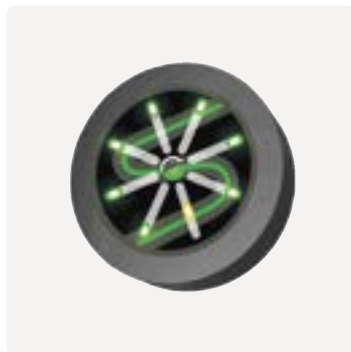Impact-, high temperature- and water-resistant aluminium (IP67).

KiwiEye

Technical specifications

Dimensions	145x67x90 mm 5,7x2,6x3,5 in	Input power	18 W	Distance	25 m - 82 feet
Weight	900 g - 31,0 oz	Detection angle	Oriz. 90° vert. 65°	Protection rating	IP67
Power supply	12 - 24 V	Acquisition time	30 fps (33 ms)		

Integrations

KiwiSafe

Device with LED interface. Light colour and direction indicate the distance to and position of the obstacle.

KiwiPad

The obstacle is displayed on screen, identified as red, yellow or green depending on the detected distance.
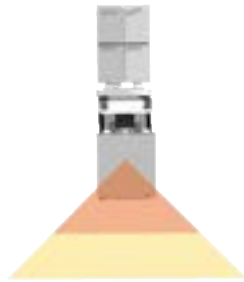
ETS Touch

Integration with ETS Touch allows to analyse possible obstacles on the display, locating vehicles and managing access.

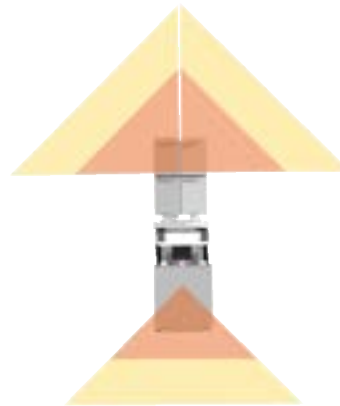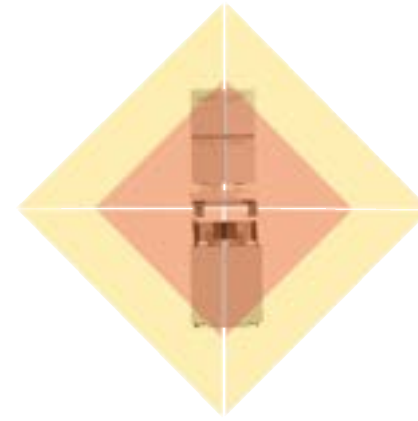# KiwiEye

Application on the vehicle

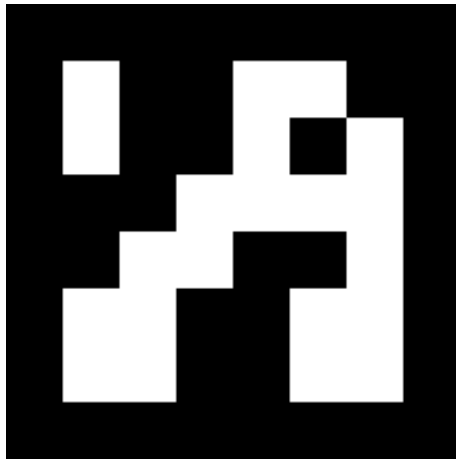| 1 KiwiEye: **90°** | 2 KiwiEye: **180°** | 3 KiwiEye: **270°** | 4 KiwiEye: **360°** |

Several devices can be installed on a vehicle to ensure total coverage of the manoeuvring area.

Three alarm zones can be configured according to the vehicle direction of traffic.

KiwiEye
Sign and marking recognition

KiwiEye can recognize Aruco signs and codes for temporary danger warnings or to delimit specific areas.

Lightweight signage is a smart alternative to classic antennas and it easily adapts to any company floor plan without a need for additional work on the infrastructure.

KiwiEye
Installation

KiwiPad

Touch screen tablet for industrial vehicles

Safe driving
Real-time display of the manoeuvring area with obstacles, distances and alarm zones.

Quick and easy installation
RAM Mount and Vesa, cabling and bracket included.

High resistance
Water-resistant and Dust Tight (IP65).

High versatility
Wi-Fi interface, Ethernet, CANbus, RS232, USB, Bluetooth, capacitive touch screen.

KiwiPad

Technical specifications

Dimensions	190x130x40 mm 7,5x5,1x1,6 in
Weight	350 g - 12,3 oz
Power supply	12 - 24 V
Input power	19 W
Display	7 inches
Resolution	1024x600 pixels
Brightness	800 cd/m

KiwiSafe

Interface with LED display

LED Interface

The colour and direction of the LED lights show the distance to and position of obstacles, detecting 3 alarm zones.

Bypass button

The system has a release and/or override button for deceleration.

Quick and easy installation

The device is light and versatile and can be installed directly on the vehicle.

2 levels of deceleration

The device signals the pre-alarm or alarm and reduces the speed of the vehicle according to the distance to the obstacle detected.
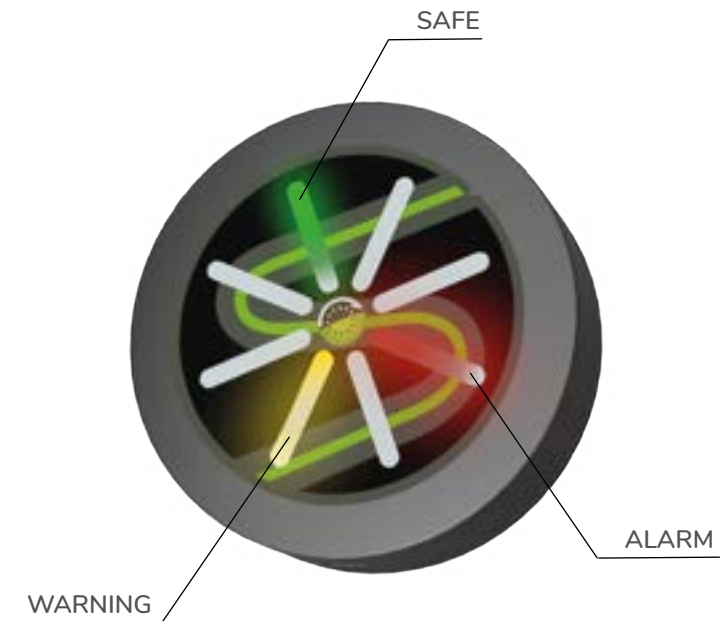
KiwiSafe

Technical specifications

Dimension	diameter 95x38 mm diameter 3,7x1,5 in
Weight	150 g - 5,3 oz

Technical specifications	5 - 24 VDC
Power consumption	2 W

How does it work?

The LED colour indicates the distance of the obstacle from the vehicle: green if it is far away, yellow (pre-alarm) for medium distance and red (alarm) if it is very close.

The direction of the lights indicates the position of the detected obstacle.

Thank you for your attention

Kiwitron

SMART INDUSTRY SOLUTIONS