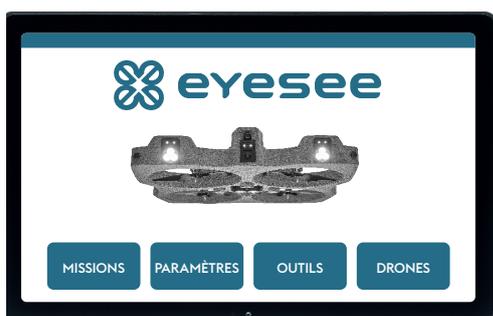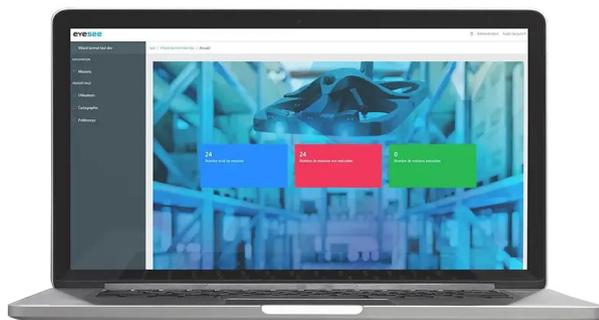# EYESEE - AN INVENTORY DRONE SOLUTION

EYESEE Drone

EYESEE App

EYESEE Cloud

EYESEE is an autonomous inventory drone solution for logistic and industrial warehouses.

EYESEE solution has been designed to read all barcodes (GSI standards & specific), from a few centimeters to more than 10 meters high. It allows to increase the frequency of inventories, reduce the cost, time, and risks associated with its implementation.

An easy-to-deploy solution:

- No warehouse modifications
- No addition of fixed infrastructures
- Compatible with all WMS and ERP system
- No piloting skills required

Head office:
Darwin Drones SAS
12 Rue Ampère
38000 Grenoble

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The solution is composed of :

- **EYESEE Drone,** an autonomous drone equipped with 3 complete barcode acquisition modules, integrating obstacle detectors to guarantee the safety of the warehouse operators.
- **EYESEE App,** a tablet application to supervise the inventories (mission execution, real time video feedback, security mechanisms) and declare specific Point of Interest (POI)
- **EYESEE Cloud,** a powerful administration software to manage mapping, data processing, data visualization, export, reporting or even the management of a drone fleet.
- **EYESEE Tags,** two lights and mobile tags to place on the ground to ensure communication and precise localization in indoor.

Technical specifications

Dimensions

Width	570 mm
Length	590 mm
Height	146 mm

Weight

Empty weight	1150 g
Weight with battery	1600 g
Battery weight	450 g

Barcodes & pictures acquisition

Scanners	Zebra PL 5000 x3
Front LEDs	6
Ultrasonics	6
HD camera	Up to 2592*1944 px - 5 mégapixels

Autopilot

Mini FC	Squadrone System

Frequency range

WIFI (GHz)	[2.412 – 2.484] [5.150 –5.850]
UWB (MHz)	[6240 – 6739.2]

Standard performances

Optimum scanning width	80 cm
Movement speed (vertical)	30 to 80 cm/s
Minimum size of detected obstacles	2,5 cm² at 5m distance
Average time for location scanned (sec)	7
Charging time (min)	90
Typical flight time (min)	18

Environment

Temperature of use of the drone in flight (drone battery in discharge)	5°C to 45°C
Drone battery temperature on charge	5°C to 45°C
Tag in charge	5°C to 40°C
Tag in discharge	5°C to 45°C
Storage temperature (1month)	-20°C to 60°C
Storage temperature (1year)	-20°C to 30°C
Wind resistance	less than 3km/h
Min altitude of scans	30 cm
Max altitude of scan	15 m
Obstacle avoidance distance	from 0,3m to 6 m
Hygrometry	5 % to 90%
Atmospheric pressure in use	900 to 1040 hPa
Maximum altitude of use (m)	2000m
Degree of pollution	PD2

Identify inventory errors upstream before they become costly problems downstream