HEISHA Catalog

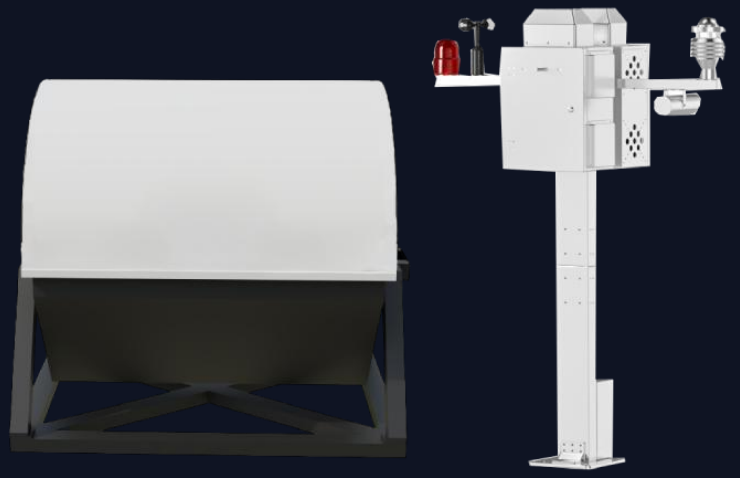
Dealer

2024/8/15


We build Bot-mansions

DNEST5

UAV Low Altitude Flight Solution



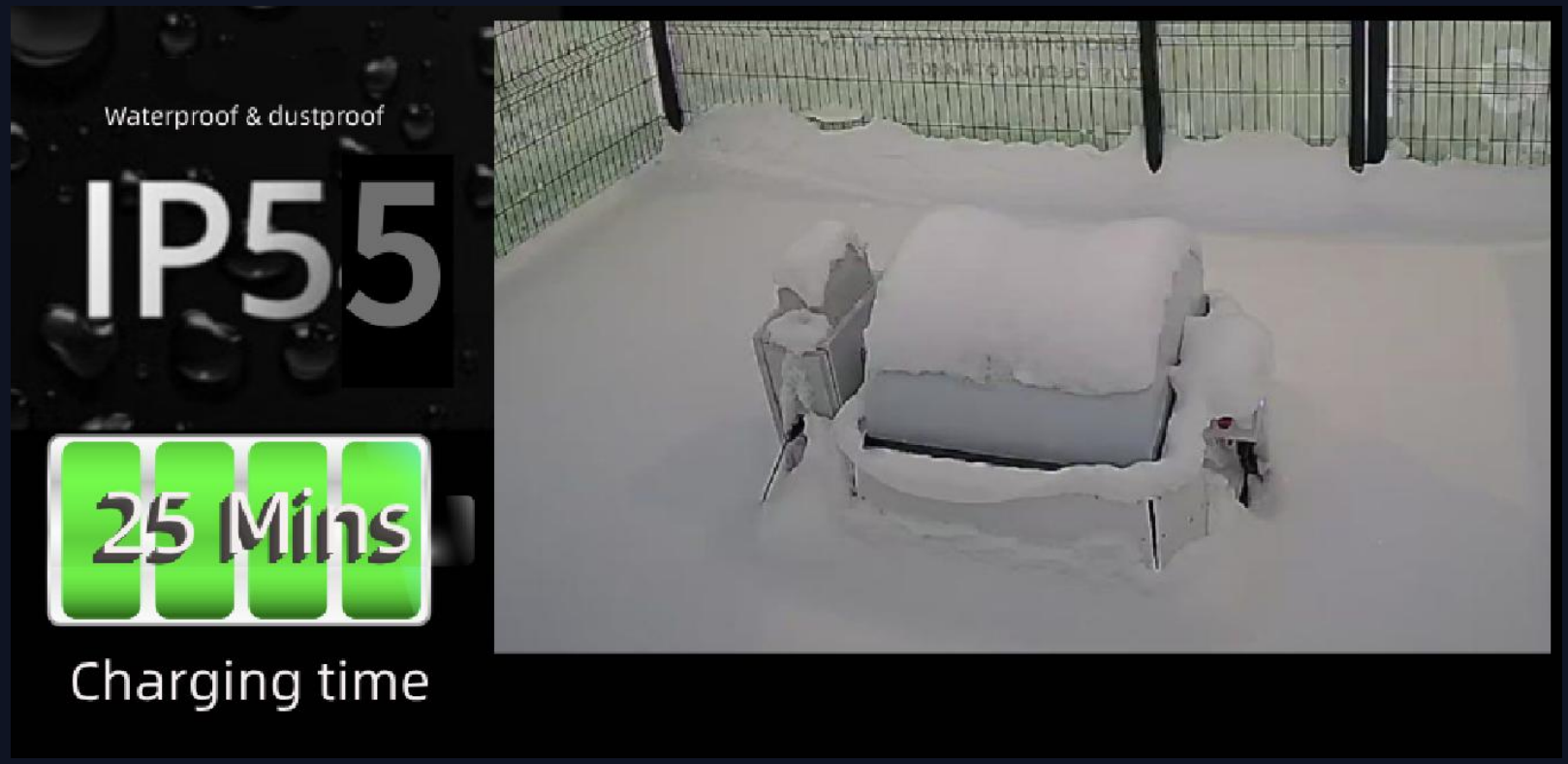
*Hardware: D80 dock

D5 packing list

- Drone dock (earth wire include) x 1
- T3 weather station x 1
- Mavic 3E landing gear x 1
- Edge compter x 2
- Power socket x 1
- RJ45 x 1
- Configure document x 1
- One-year warranty

Superb performanse

5-year upgrade, easy deployment



Safe, stable, high-efficiency

Pre-flight checking

HEISHA's fifth-generation drone dock, the Dnest 5 software system combines the T3 weather station. It integrates real-time weather conditions (temperature, humidity, wind speed, rain-fall, etc.) to determine if flight conditions are safe to fly, avoiding damage to the dock and drone due to unsuitable weather conditions for takeoff.

Dual monitor

The drone camera inside the dock and the extra monitoring camera at the T3 weather station outside monitor the environmental conditions inside and outside the dock in real-time, assisting the operators in remotely observing the weather conditions, the site environment, drone takeoff and landing conditions, etc.

Fast charging

DNEST5 drone dock system can quickly charge drones that charge from 20% to 90% in just 25 minutes. At the same time, it adopts multiple charging protections such as overcharge, overvoltage, and anti-backflow.
It can help to efficiently and continuously operate in remote areas.

Laptop/cellphone/Large monitor connection

YOUR CALL

Large monitor operation

Flight software operation

Cellphone APP operation

Laptop/cellphone/Large monitor connection

One-key preflight

Separately check the weather, dock equipment and signal conditions for safe flights. And give timely flight warnings in case of abnormal status.

Remote control

Even if the dock is deployed in a remote location, it is still possible to remotely control the flight behavior of the drone, adjust the angle of the gimbal, and shoot back real-time videos and images during the mission.

Waypoint flight

The drone can perform remote automatic flight tasks according to pre-set waypoints, and after the task is completed, it can return to the flight with one key, which greatly reduces the difficulty of flight.

Point-to-point flight

When carrying out urgent tasks, you can directly click on the destination and the drone will instantly fly to the target point, responding to unexpected emergency tasks in the quickest and most efficient way.

Wheel design, easy deployment

Wheel design is convenient for moving around.

Compatible with DIFFERENT drone models, without the risk of iterative drone replacement.
FREE SOFTWARE for life.
Multiple control methods for operational flexibility and lower threshold of unattended operations.
5 years of updates and iterations, tailored to user needs, more efficient and safer for flight missions.

Wheel design, easy deployment

Wheel design

Charging protections

Waypoint flight

IP55

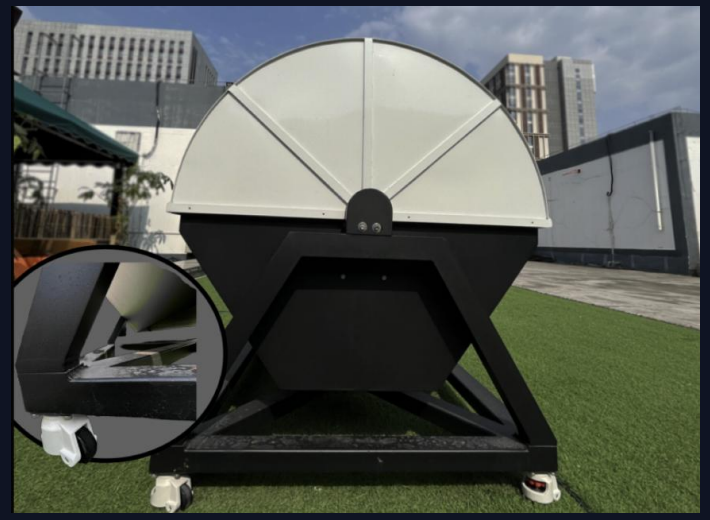
IP55 protection

Weather sensors

Remote OPS

Private deployment

Batch production



Wheel design

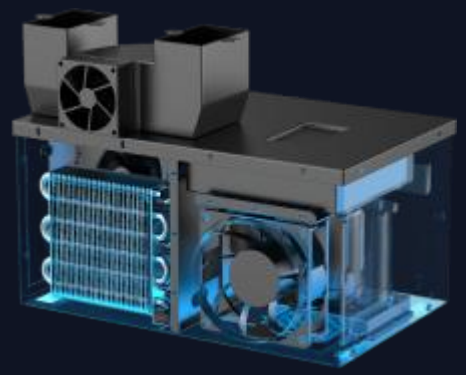
Rolling wheel design directly refers to the handling problems on the way to deployment, the outer box of the package comes with an auxiliary skateboard, from unpacking to deployment, can be completed by a single person, greatly reducing the difficulty of deployment and reducing the number of personnel involved in the deployment.

IP55 protection

All electrical components of the airport are protected, and the dust and waterproof level reaches IP55. Built-in high-performance compression air-conditioner, the working temperature covers -20 degrees to 40 degrees, even in rain, snow and summer, can also be normal operation.

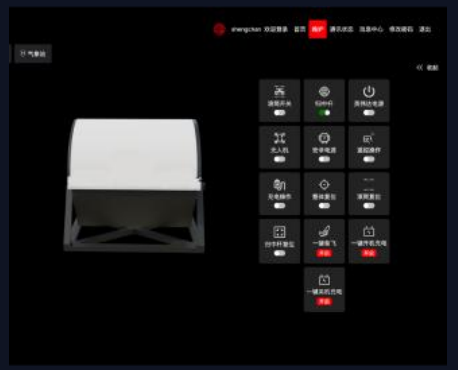
Smart sensor system

The dock integrates with sensors such as wind anemometer, rain gauge, temperature, humidity, etc., transmits weather data in real time, conducts pre-flight safety checks, and warns or aborts risky flight missions in time through the software to efficiently minimize the risk of flights.



Powerful compressor AC

With three modes of energy-saving, strong cooling and air-cooling, it can efficiently adjust the dock charging temperature to a safe temperature in real time according to the ambient temperature, which protects the dock in extreme weather operations.



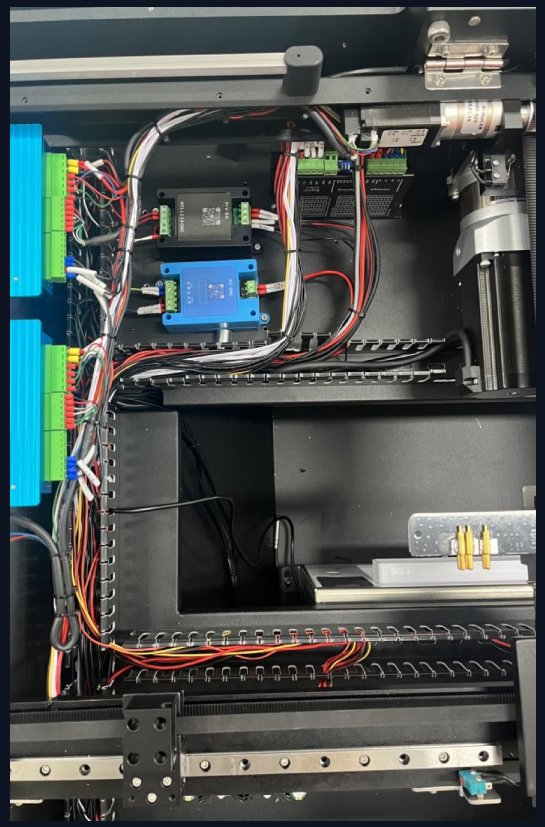
Q100 remote diagnosis system

It can remotely switch on and off the dock cover, charging bars, flight preparation, charging, overall reset, etc., which greatly facilitates the remote operation and maintenance work.

Specifications

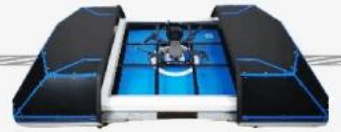
Weight	85kg
Size (open)	1067*890*510 mm
Size (close)	1067*890*934 mm
Max. power	450W
IP rating	IP55
Charging time	40 mins
Charging protections	Over-current, overvoltage, anti-reverse connection
Input voltage	AC100~240 v
Working temperature	-20℃~50℃
Compatible drones	M2\M3E\Mini\Autel/Air 2
Open protocols	MQTT/MODBUS RTU
AC type	Compressor (PTC optional)
Internet	Ethernet/ support 4G
Apps	FreeSky、FlytNow、DNEST5

D5 Details



D80 evolution

First sample
Obviously defective



November 2019

March 2020

First generation
No air conditioner

Second generation,
including air conditioner,
not smart

September
November

September
2021

Third generation, support 5G, remote monitoring and diagnosis, Intelligent temperature control

Upgrade charging bars, landing indicators
Standard version & custom version

October
2023

D5 Applications

Cases of DNEST5

- Location：South Korea
- Dock：DNEST2
- Time：2021-07
- Application：Mobile inspection

Public security- Mexico

Electrical substation inspection-Quanzhou

Solar panel inspection-Singapore

Solar farm inspection - Japan

- Location：Italy
- Dock：D80
- Time：2022-09
- Application：Environment surveillance

- Location：Italy
- Dock：D80
- Time：2022-09
- Application：

Environment surveillance

Forest inspection-Fuzhou

May, 2022

2022年5月

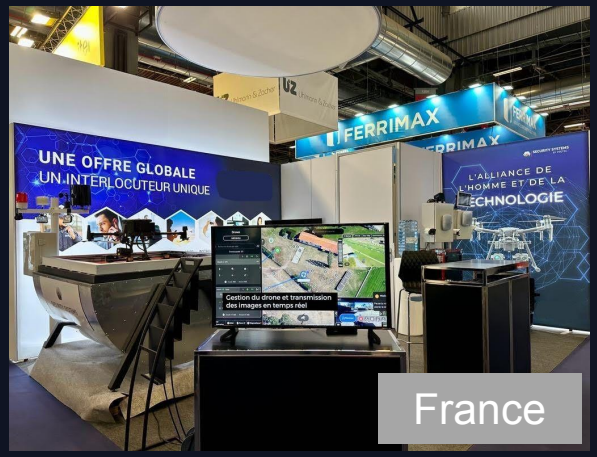
Drone service - Italy

Footprint

Distributors

South Korea

Italy



France

South Africa

Spain

Distributors

Europe

Canada


Japan


Malaysia


UAE

Production capacity

Production capacity：

200 sets/month

Lead Time：

3 days for in stock, 45 days for new products

Certificates & patents

Innovation Utility Appearance

DNEST5 VS DJI Dock

		DJI DOCK2	HEISHA DNEST5
Electronic Control & Gateway devices	Transmission control module	Integrated on one PCB	Automotive-grade MCU
	Charging control module		
	Gateway Router 4G WIFI		Standard router
	Edge computer		One PCB
	Drone remote control base		
	Standard wiring harness	4	9
Software	Drone dispatch software	FlightHub 2	BOTBAY
	Dock Scheduling Software		
	Dock network scheduling and maintenance		
	Video streaming server	Independent development	Independent development
	Private server setup	No	More flexible
Structure	Upper and lower covers	Plastic mold	Sheet Metal
	Landing board with centering bars	Plastic mold + reinforcement	
	Drone landing gear and charging mechanism	Wireless charging	Contact
	Drone Battery Modification	Unnecessary	Need
	Mounting brackets	Unnecessary	
Other	Temperature control module (air conditioning and air duct)	Semiconductor air conditioner	Compressor air conditioner
	Weather Sensors	One-piece mold	Self-produced
	Audible alarm		External procurement
	Webcam		
	UPS	Self-produced	

THANKS