



DJI MATRICE 100



FH PREDATOR



DJI MATRICE 200



DJI MATRICE 300



DJI INSPIRE

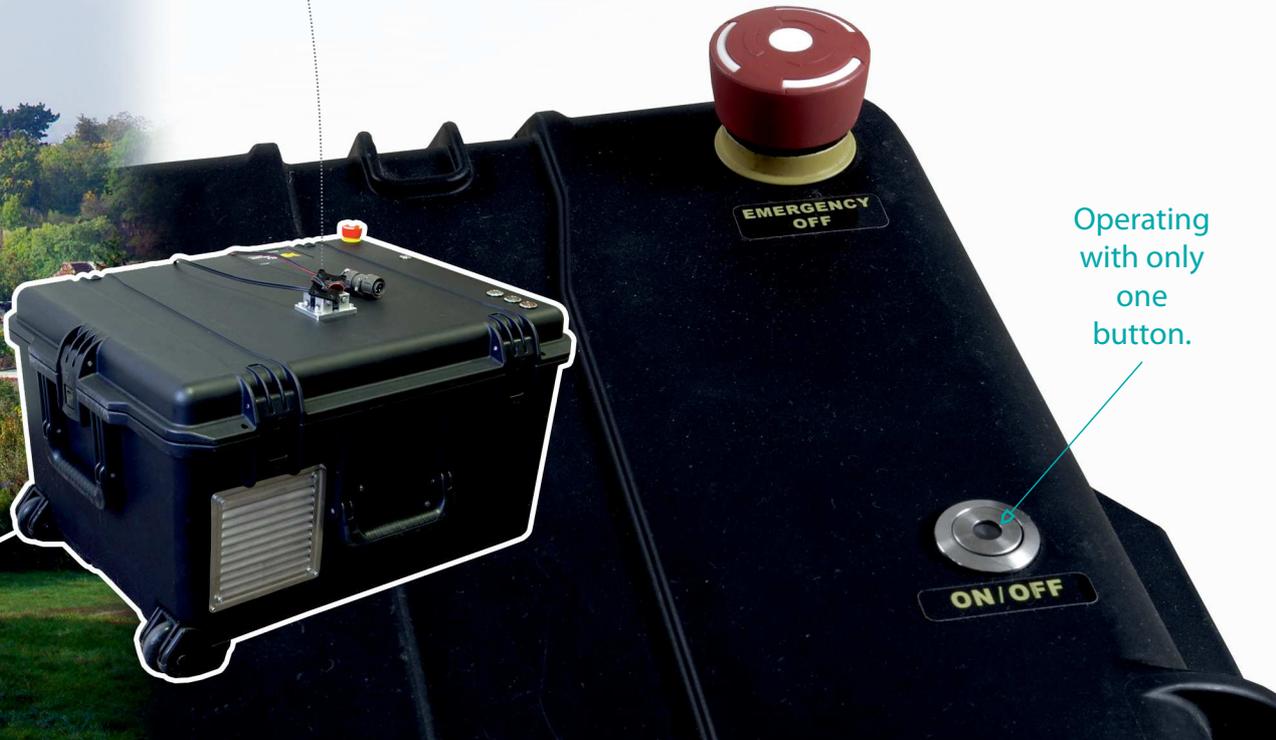
GUARDING
MONITORING
DETECTION
TIME-LAPSE VIDEO
CAMERA SHOOTING

**NON-STOP FLIGHT
OF YOUR DRONE**

The Free Horizons
Tethered station
replaces the batteries
and extends the flight up
to hundreds of hours.

Compatible with any drone
with a "smart" battery.

Altitude: up to 200 m
Power supply: 230 V



Operating
with only
one
button.

ON/OFF

EMERGENCY OFF



We have brought the dream into reality...
 Now your drone may be in the air
FOR UNLIMITED TIME!

With the patented technology of the Free Horizons 3 kW/100 m power station,
 you will no longer be limited by the battery life of your drone.
 The power station control is adapted to the needs of the pilots and works in mode.

TURN ON & FORGET.

On the case there are only one button: **ON/OFF.**

NO

- Manual unwound cable
- Manual setting the cable direction
- Setting the cable speed
- Manual cable winding!

ONLY ONE BUTTON. ONE!

Simply load the power station onto a pick-up or boat and turn on the unique feature FollowMe*.
 Drone will follow you.

**AT THE SET ALTITUDE.
 AT THE SET DISTANCE. NO CONTROL.**

Preparation time for full operation even with the start of the mobile generator: less than 5 minutes.
 The transmitted power guarantees that your drone stays in the air indefinitely
 and can still recharge the batteries.

**NORMAL SOCKET IS SUFFICIENT.
 OR MOBILE GENERATOR.**

And the best?
 DEVELOPED AND MANUFACTURED IN CZECH REPUBLIC.

Technical specification Tethered station Free Horizons 3 kW/100 m

Tethered Station	
Cable lenght	100 m, optionally up to 200 m
Power	max. 3000 W
Voltage	230 V, 50 Hz
Fuse	16 A
Powering with mobile generator	Yes
Cablewinding/unwinding speed	2 m/s
Degree of protection	IP 53
Overload protection	Yes
Overheat protection	Yes
Short circuit protection	Yes
Special function	FollowMe*
Working temperature	from -20°C to +60°C
Dimensions	600 mm × 500 mm × 400 mm
Weight	47 kg

Air Unit	
Voltage	25 V or 50 V
Power	3000 W
Dimensions	150 mm × 50mm × 50mm
Weight	cca 350 g

www.freehorizons.eu

* Function FollowMe is only available with Free Horizons drones and some types of DJI drones. As part of further development, we reserve the right to change parameters without prior notice.



Tethered Station

The Tethered Station is our unique product. The station is equipped with a **cable and reel**, which allows to release the drone up to 200 m (depending on the type of drone and its load capacity). The drone motors are powered by the cable and at the same time the batteries are recharged in the second branch by means of the internal system (BMS). Thus, the drone can fly practically indefinitely.

For other similar products of this type, the flight of the drone is limited to 1-1.5 hours as the batteries cover power fluctuations and gradually discharge. The extra energy from the cable can only prolong the drone's flight. Our system fully covers the performance requirements of the drone and is able to recharge the batteries.

The cable unwinding and winding in the power station is controlled by a computer, which evaluates the fluctuations in the pulling force and thus keeps the cable in optimal tension. The computer is also able to compensate for the effect of wind power and distinguish it from the upward or downward movement of the drone. All power station functions are fully automatic and the entire power station is operated with just one ON/OFF button.

FollowMe. The Tethered Station is equipped with a unique and very important Follow Me function that allows the station to be placed on a vehicle, boat, etc. and the drone will follow the power station wherever it moves, up to a maximum drone speed of about 35 km/h. This unique feature enables, in addition to the stationary guarding of the selected area, also movable guarding, when we significantly expand the area that can be continuously monitored from the air.

FollowMe can be used outdoors to monitor airports, photovoltaic power plants, etc. **The drone in this configuration follows the movement of the car.** Drone height and distance from the station is adjustable and stable.

Free Horizons Tethered Station Variability

The Tethered Station of the drone is provided from a static power station located on the ground or in the ground on the vehicle. The second module is a current converter, which is attached from below cable to the drone body. The power station itself is so versatile and we only change the current converter to connect different types of drones. It is possible to connect virtually any drone; the only limitation is its sufficient load capacity.

The power station is connected to the 220 V network to ensure proper operation or we can use a field generator.

FollowMe function

