

## Tethering Nest

**The Tethering Nest 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.

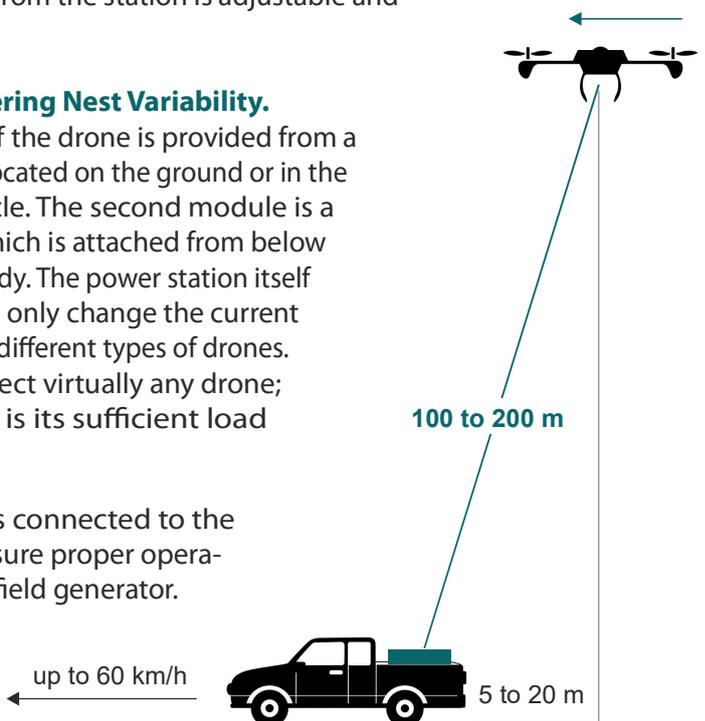
**FollowMe.** The Tethering Nest is equipped with a unique and very important Follow Me function that allows the station to be placed on a vehicle, boat, etc. and the drone will follow the power station wherever it moves, up to a maximum drone speed of about 60 km / h. This unique feature enables, in 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 Tethering Nest Variability.

The Tethering Nest 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*