



## AVES Wind Onshore

ProTecBird offers the AVES Wind Onshore product for wind farms to initiate the spin mode of the wind turbines (WTG) as required to protect large birds. This system is based on a highly integrated camera system, proven industrial software for detection and tracking, and proven artificial intelligence for reliable species identification. AVES Wind Onshore is designed as a subsystem of complex wind turbines and can be configured in accordance with local species protection regulations by simply networking several wind turbines in a wind farm. AVES Wind has achieved proof of effectiveness and will be ready for series production and CE certification in the fourth quarter of 2023.

## Features

- Low installation costs by using the existing wind farm infrastructure
- High detection and recognition rate through sophisticated AI-based software
- 15 wind-sensitive large birds species can currently be identified
- Precise distance and speed measurement of the bird by triangulation of multiple cameras
- Rapid expansion of the system in the event of wind farm adjustments or due to changes in species protection law





Technical data AVES Wind Onshore	
Development status	Ready for series production by the 4th quarter of 2023
Detection	≥ 400 m night ≥ 1000 m day
Species recognition (e.g. red kite)	≥ 500 m
Operating conditions	-25 °C to +55 °C Wind load 68 m/s (245 km/h)
Power supply	230 V / 16 A
Network	fiber optic cable and mobile data interface
Protection class	IP66
Marking	CE
Specifications PTZ camera	
Pan/tilt	360° / -90° to +90°
Zoom	31x optical zoom
Lens	Horizontal field of view 63,8° - 2,2° Vertical field of view 37° - 1,3°
Resolution	Full HD 1920x1080
IR illumination	850 nm wavelength