



AVES Industry for Power plants

Power plants are an attraction for birds due to their complex design, building size and the heat they give off. Bird droppings pose health risks to employees as well as contamination and damage to systems. To solve these problems, AVES Industry was developed. It is a fully automatic AI-based system that sustainably deters birds in a way that respects animal welfare. By using precise optronics and tracking software, it is possible to keep both individual birds and entire flocks of birds away using targeted sound signals. The use of sound barriers and careful configuration enables use in urban environments.

Features

- Fully automatic operation and large area protection day and night
- Sound only at bird flight
- Reliable bird detection based on artificial intelligence (AI)
- No habituation effect due to event-related deterrence
- Rapid and sustained decrease in bird infestation
- Mobile operation via a web-based app
- Low maintenance costs through the use of proven industrial components



Specification and dimensions AVES Industry

Length	825 mm
Width	545 mm
Height	1,110 mm
Weight	45 kg
Operating conditions	-25 °C to +55 °C Wind load 50 m/s (180 km/h)
Power supply	230 V / 16 A
Network	LAN and mobile data interface
Protection class	IP54
Marking	CE

Specifications Pan-Tilt-Zoom-Camera

Detection	≥ 400 m night ≥ 1,000 m day
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

Specifications sound module

Pan/tilt	360° / -45° to +45°
Sound pulse (1 m in front of the sound module)	Adjustable from 0 to 137 dB(A)
Deterrence distance	Adjustable up to 500 m