

BirdSentinel

The Airspace Birdwatcher !

BirdSentinel is an innovative video system to continuously detect and record flying birds in the airspace. *Birdsentinel* is automated and energy self sufficient. Continuous and accurate flying birds census is now possible everywhere !

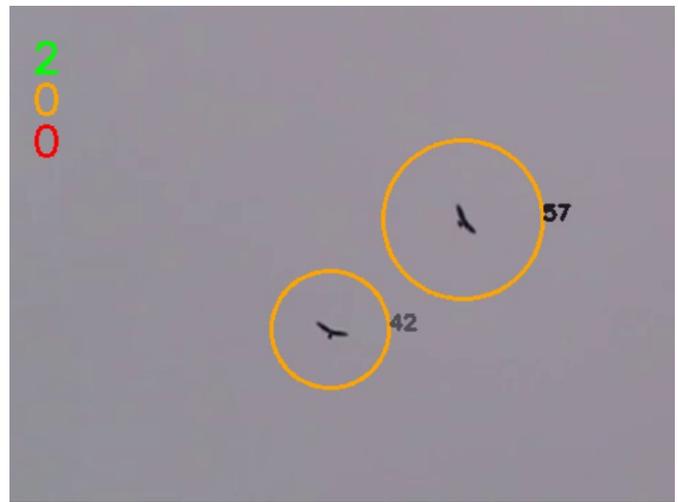
BirdSentinel allows to :

- detect all kind of birds flights, from dawn to dusk, whatever weather conditions are (rain, snow falls, clouds...),
- record and store birds flights detected onto video files,
- identify species, analyze behaviors and evaluate flying altitudes and crossing time,
- automatically count detected birds with multi targets tracking,
- adapt detection criteria depending of targeted species,
- achieve 2D and 3D trajectory studies.

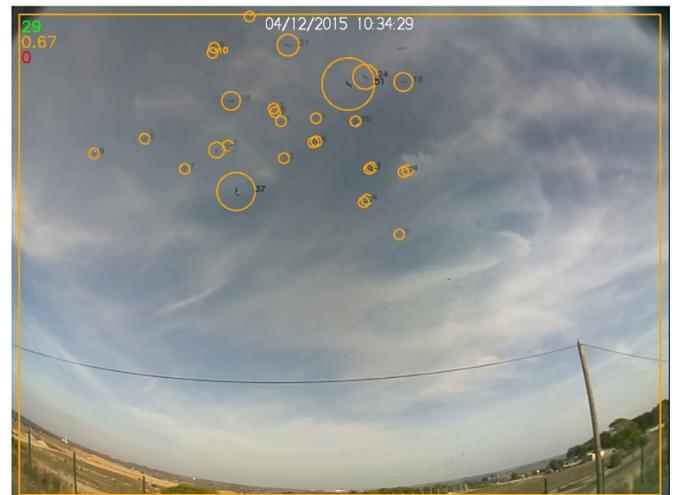
BirdSentinel is a modular IT system and includes :

- specific HD IP cameras (5MP) IP55,
- dedicated and efficient algorithms specifically developed to address flying birds detection,
- autonomous electrical power with batteries or renewable energy : only one 100W solar panel can run a one cam BirdSentinel system an entire year, at mid-European latitude.

BirdSentinel improve environnemental studies with unprecedented accuracy and less costs !



Golden Eagles (*Aquila chrysaetos*)



Yellow-Legged Gull (*Larus michahellis*)



Montagu's Harrier (*Circus pygargus*)



Common Crane (*Grus grus*)

BirdSentinel is highly flexible :

- remote sites without grid connection,
- setting on all kinds of fixed or movable support (eg meteorological mast, buoy, building...),
- up to 360° horizontal aerial cover and 180° vertical,
- up to 1 km detection radius for larger species
 - long or short term census

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Exemples of use :

Wind power inshore and offshore :

- Year round bird studies

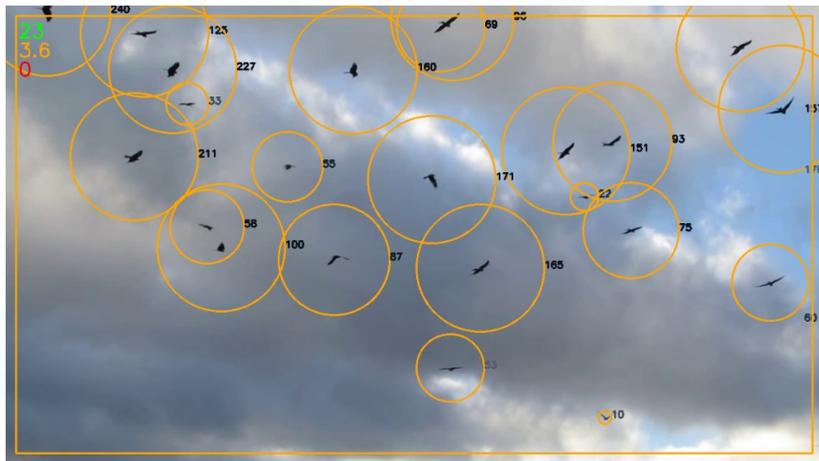
- Altitude assessment and evaluation of collision risk
- Ex-ante evaluation of power loss in case of regulation

Linears infrastructures :

- Ex-ante and ex-post assessment of collision and electrocution risk

Agriculture :

- Detection of crop damages due to birds



Red Kites (*Milvus milvus*)



Razorbills (*Alca torda*)



BirdSentinel set onto a met-mast

We will adapt *BirdSentinel* to your needs

- Targeted species
- Census period needed
- Equipments disposal
- Setting conditions

Starting from your needs, we will adapt our algorithms to your specific objectives. We will set and remove the equipments. After the census period, we will send you the video detections files, displaying date, time and number of birds detected. Our experts will analyze detections and videos will be available to be cross-checked by your own experts.

Biodiv-Wind SAS is a society created by enthusiastic biologists and field naturalists, convinced that well managed Information Technology can improve our responses to biodiversity conservation challenges. Biodiv-Wind SAS develop new solutions using radar, acoustic and video technologies.

Contact :

Biodiv-Wind SAS / Henri-Pierre ROCHE

Tel : (+33) 06 87 24 34 88

Mel : hp.roche@biodiv-wind.com, contact@biodiv-wind.com

Biodiv-Wind, SAS au capital de 100 000 € - RCS Béziers 538 449 737

Registered Office : Innovosud, 132 rue Marquis de Laplace, 34500 Béziers - France