

dtbird[®] dtbat[®]

AUTOMATIC & REAL-TIME PROTECTION

Bat Monitoring & Reduction of Collision Risk with wind Turbines

DECEMBER 2025

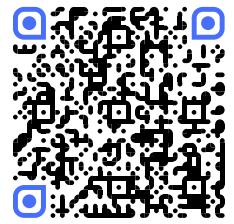




Bat Protection Automatic & Real-Time

DTBat[®] System automatically surveys the airspace around Wind Turbines (WTG) detecting bat passes in real-time; and optionally, reduces the collision risk by triggering WTG Stops linked to bat activity thresholds and/or environmental variables measured in real-time.

DTBat[®] has 2 modules available: Detection and Stop Control.



[See the
Specifications!](#)



Bat Detection

Automatic and real-time detection of bats with ultrasound recognition.

Features

- **Detection sensors:** Bat microphones installed 2 or 3 units. Models Q2 & Q3.
- **Optional Environmental Sensors:** Temperature, Rain and Humidity and Wind Speed (from the WTG).
- **Location:** WTG Tower (steel or concrete) and/or Nacelle.
- **Surveillance Area:** WTG tower, Transition Piece and/or Nacelle.
- **Service period:** Continuous monitoring during bat activity periods.
- **Precision** of real-time detection > 0.97 (97% of detections are actual bats).
- **Testsignal speaker** in microphones.

Recorded Data

- Sonograms of every bat pass.
- Bat calls (.wav files)
- Environmental data and WTG operational parameters.
- Automatic species ID. Project specific.



Stop Control



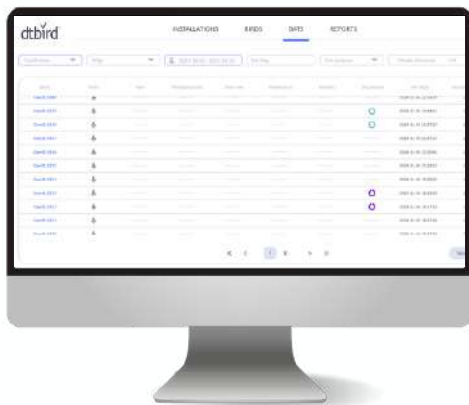
Automatic WTG Shutdown linked to real-time bat detection.

Features

- **Interface with WTG:** DTBat[®] hardware and software compatible with all WTG manufacturers.
- **Automatic Stop trigger:** linked to real-time bat activity thresholds and/or environmental variables.
- **Stop trigger:** < 2 s after bat pass detection.
- **Stop duration** according to bat activity detected. Typical stop program covers > 90% of bat activity. Adjustable to Client/Environmental Authority requirements.
- Automatic **notification** of every Stop: Trigger (first notification), end time and duration (second notification).

Recorded Data

- Stop time data: Init time, end time and duration.
- Sonograms of all bat passes detected.



Nest Platform

Features

- Access to bat calls, environmental data, WTG operational parameters, and shutdown actions.
- Data summarization in charts and graphics.



DTBat[®] System: a Worldwide Reference for Bat Protection at Wind Farms



Since 2012 | 9 Countries | + 40 Units installed

DTBird[®] & DTBat[®] features are demanded by environmental administrations of an increasing number of countries. **+500** DTBird[®] & DTBat[®] units have been installed at over 110 existing / projected, onshore / offshore wind farms in **17 countries** (Austria, Belgium, China, Djibouti, France, Germany, Greece, Italy, Norway, Poland, Spain, Sweden, Switzerland, Taiwan, The Netherlands, the United Kingdom and the United States). DTBat is operating at WTG **since 2012**.

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