RRSMAX/A3

MAX® 3D Bird Radar

A WORLD FIRST: FULL 3D AVIAN RADAR

MAX® is our flagship bird radar. It took four years, millions of Euros, and thousands of coffees to develop. The result is mind-blowing. We quite simply had no other choice but to call it MAX®.

UNPRECEDENTED TRACKING

MAX® has 360-degree coverage with 60rpm, resulting in track updates every second. This allows uniquely detailed 3D visualisation of bird flight paths in real-time.

HEIGHT INFO FOR ALL BIRD TRACKS

MAX® is a single sensor system, providing full 3D information of all birds in range of the radar. Height information is provided for all bird tracks, and there's practically no cone of silence above the radar. Our flagship bird radar offers true and full 3D coverage, meaning you get height data for ALL bird tracks, all around the radar, all of the time..

PURPOSE-BUILT TO DETECT BIRDS

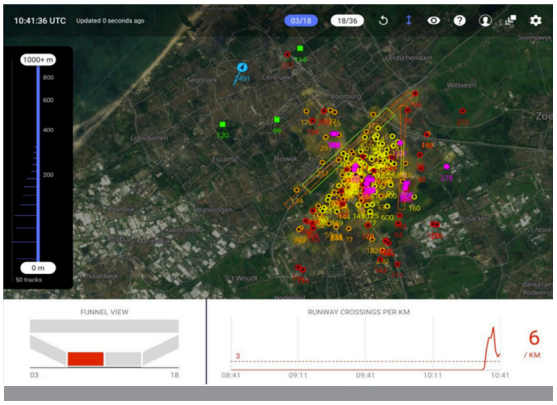
MAX® has been built to monitor birds from the start. That's its entire purpose. The antennas are designed explicitly with avian targets in mind. It finally brings phased array radar technology into the hands of bird control units and ornithologists.

EASY ACCESS ON ALL PLATFORMS

Bird movements are displayed in real-time on a computer or mobile device (including both iOS and Android). And MAX® comes with both computer-based software and our new web application, Bird Viewer, to control the radar and view the output.

DASHBOARDS

Developing new hardware isn't the only thing we've done. We know that you often need to convert bird data into reports. So, we've developed an entirely new tool to present your data as appealing charts and graphs. Just select the variables and time period you want, and our software will immediately generate your data in a handy graphical representation.



As front-runner in radar ornithology, we want to work with state-of-the-art technology. We believe MAX® is the most advanced avian radar of it's time.

- Eelco Waardenburg, Director at Bureau Waardenburg

ROBIN RADAR SYSTEMS / LAAN VAN WAALHAVEN 355, 2497 GM THE HAGUE, THE NETHERLANDS
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REV. 5 - APRIL 2022

WHAT'S INCLUDED

MAX® comes as a complete radar system including radar antenna, processing station and user interface, breakout box and interconnecting power and network cables. The processing station and user interface comes with 19" rack server and housing as standard.

- MAX® Radar Antenna
- Processing Station / User Interface
- Weather Station
- Breakout Box
- Cables (interconnecter, power, network)
- Hoisting Attachment
- User Manual
- Certificates

Depending on your specific application, different software options are available. For windfarms we can provide an automatic turbine shutdown module for example. For Airports we can provide different dashboards for different user-groups; like Bird Controllers, Habitiat Managers, and Senior Management.

SPECIFICATIONS

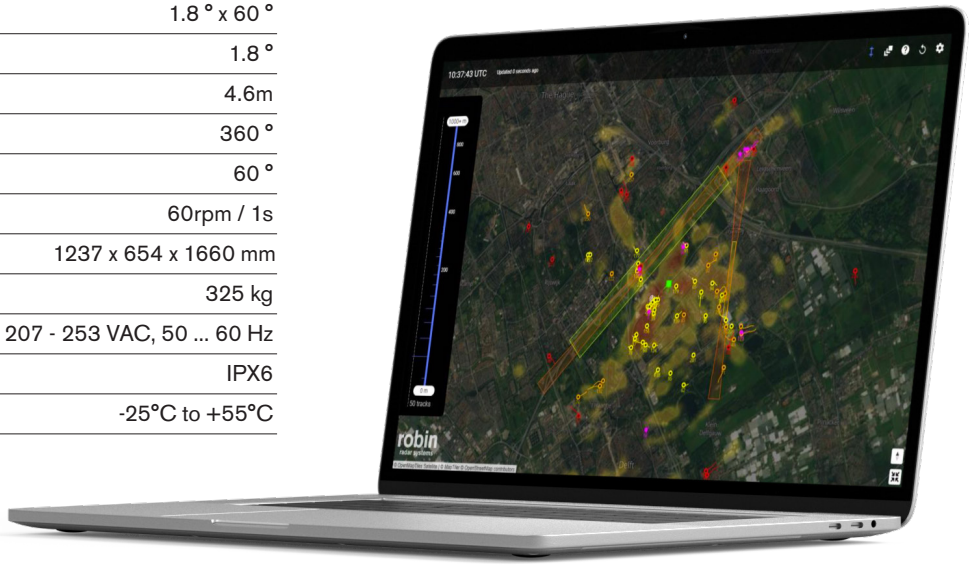
Technology	FMCW, Solid State
Standard Frequency	9650 MHz (X-Band)
Alternative Frequencies	8900, 9250 MHz*
Power (continuous)	44 Watt
Instrumented Range	15 km
Detection Range Large: 2SAT -13dm^2	10 km at 700m altitude
Detection Range Medium: 1SAT -16dm^2	8 km at 600m altitude
Detection Range Small: -25dm^2	4 km at 400m altitude
Detection Range Micro: -30dm^2	3.3 km at 300m altitude
Beam Width	1.8 ° x 60 °
Azimuth Resolution	1.8 °
Range Resolution	4.6m
Azimuth Coverage	360 °
Elevation Coverage	60 °
Rotation / Scan Speed	60rpm / 1s
Dimensions (WxDxH)	1237 x 654 x 1660 mm
Weight	325 kg
Power	207 - 253 VAC, 50 ... 60 Hz
Ingress Protection	IPX6
Operational Temperature	-25°C to +55°C

WHO IS MAX® FOR?

Users of MAX® include civil airports, air force bases, and windfarms, as well as environmental consultants and researchers. Simply put, if you need to detect, track and monitor birds over wide areas, you're going to love MAX®.

Interested? Get in touch with us to find out more.

MAX® is a full 3D bird radar, with 360-degree coverage and long range. It can be controlled with the supplied computer-based software, operated on tablets (iOS and Android), as well as on our new web application, Bird Viewer.



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