

MERLIN

Bird Control Radar System (BCRS)

The most widely used & tested bird radar system with over 250 units operating worldwide in bird control & aviation safety.

Fully self contained, networked units with the capability to custom define multiple, zoned control perimeters.

Engineered & manufactured for dependable 24-7 operation with high reliability & low maintenance.

Software controlled allowing for custom, user-defined control zones.



Multi-unit networks can be provided to cover numerous control zones over large areas.

DeTect's MERLIN BCRS is an advanced radar system designed to monitor user-defined bird control zones, automatically activating bird deterrent devices to deter and harass birds entering restricted areas.

The system is based on DeTect's proven **MERLIN Avian Radar System** technology that is used by the USAF, NASA and airports worldwide to detect and monitor hazardous bird activity on and around airfields for bird-aircraft strike hazard management.

MERLIN BCRS detect & deter applications include control of birds at industrial waste impoundments, oil & gas drilling frac ponds, landfills, stormwater retention basins, crop fields and sites of various size that require automated bird control.



Model: MERLIN Bird Control Radar Systems (BCRS)

Application: Real-time, automatic bird control for industrial impoundments, oil & gas waste ponds, landfills & other large exclusion areas

Configuration: Single or multi-unit networked fixed, skid-mounted or mobile radar packages

Sensors: 200w Horizontal Surveillance Radar (HSR) Solid-state sensors (50,000 hour MTBF) All weather bird detection

Operation: Automated detection & non-lethal hazing of birds. Deterrent device options include Acoustic Hazing Devices (AHD's), lasers, robotic falcons, propane cannons, bioacoustics & effigies

Operating Range: 360-degree continuous monitoring with unlimited programmable control zones for areas in size from under 1 acre (0.4 ha) to over 10 square miles (25 square km)

Power: Single Phase 110/220 VAC, 60/30 amps service with UPS back-up & power conditioning (30 minutes) & optional auto-start single or dual 5 kW diesel generator & fuel tank to support 10-20 days 24-7 operation

Network: TCP/IP supports multi-user web-based remote real-time system display, control & data access via fiber optic, or wireless WAN



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Model: MERLIN BCRS Floating Deterrent Unit (FDU)

DeTect's MERLIN BCRS is software controlled and allows for custom, user-defined control zones.

Birds detected entering the control area trigger activation of the deterrent devices. Systems are available as fully self-contained and powered fixed, skid-mounted, or mobile units.

Multi-unit networks can be provided to cover numerous control zones over large areas. The system interfaces with a wide variety of non-lethal bird deterrent devices including bioacoustics and propane cannons, Long Range Acoustic Devices (LRAD), and DeTect's Programmable Bird Control Laser system.

MERLIN BCRS uses automated, randomized deterrent selection to vary the deterrent selection and volume applied with each response to reduce habituation. The system includes a library of standard recorded acoustic deterrent files or can use client-provided sound files.

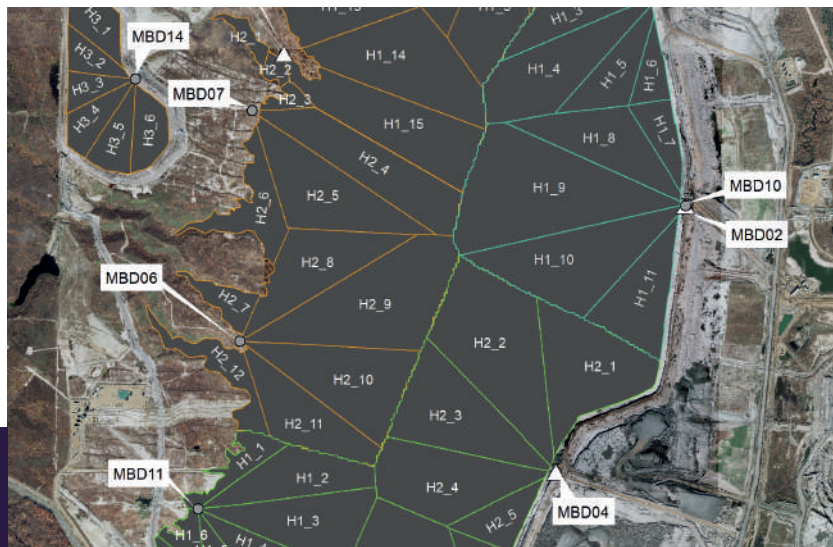


MERLIN BCRS is a complete turnkey system that includes the bird control radar master unit (radar sensor, tower (if required), processor equipment, software and equipment enclosure), deterrent devices, installation, start-up and support, or can be integrated with existing deterrent systems.

Systems provide reliable bird detection and deterrent hazing in virtually any terrain, over water and weather conditions, including in fog, rain and snow.

MERLIN systems are fully remote controllable and networkable through TCP/IP, wireless wide area network (WAN) and other protocols. All equipment is industrial-grade and designed for use in outdoor and extreme environments with exceptionally high reliability.

The MERLIN radar and processor equipment are housed in a NEMA outdoor rated, environmentally controlled enclosure mounted on the trailer, tower, or a separate foundation.



Each system includes an available 1-year parts and labor warranty and 24-7 technical support provided by DeTect's technical support team, which includes biologists, radar ornithologists, technicians, and hardware & software engineers.

MERLIN technology has been tested and proven at installations throughout North America, Europe, Africa, the Middle East, and Far East, and represents the most advanced avian radar and bird control technology on the market.

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