



Airport: Adelaide Airport

Location: Adelaide, Australia

Product: Aerolaser Handheld

Reason: Improve safety and prevent bird strikes

In use since: June 2014

Benefits for Adelaide Airport

- Best bird repelling tool
- Improves safety
- High operating range
- Animal friendly
- Sustainable

More information

Please contact Bird Control Group, via
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“The Aerolaser Handheld is an excellent addition to our tool kit”

Melita Low, Senior Environment Advisor

Situation before

Adelaide Airport is – as is any airport – seen as an attractive habitat for flocks of birds because of the large grassed parcels of undeveloped land. This results in an increased risk to aviation safety through bird strike.

Situation after

Test results using the Aerolaser Handheld show that birds are dispersed effectively from the airport to nearby grounds where they are not a threat to aircraft. The Aerolaser is one of the most effective tools for bird control used at Adelaide Airport. In addition it does not harm the birds.



Bird Control Group



The Aerolaser Handheld prevents bird strikes in an animal friendly way

Adelaide Airport is situated in the south of Australia and is the fifth largest airport in the country. The airport is located adjacent to West Beach, approximately 6 km (3.7 mile) from the city center. Bird strike events can often cause significant economic and safety consequences for flight operations.

Great range

Adelaide Airport uses the Aerolaser Handheld since June 2014. "The use of the Aerolaser improves safety around the airport. Because of the incredible range of the Aerolaser Handheld, our airside operations officers don't have to cross runways and taxiways as much to implement bird control. They can easily cover an area of 1.6 km (1 mile) from a central point. The fewer movements on the airport, in particular across runways and taxiways, the better in terms of safety," explains Senior Environment Advisor Melita Low.

Animal friendly

The laser beam does not endanger birds. "This way, the Aerolaser Handheld is part of a sustainable and animal friendly method for dispersing birds and reducing the risk of bird strikes. That's an important factor in us deciding to use the Aerolaser." In the past, Adelaide Airport has used a variety of methods to disperse birds from the runway area. "The Aerolaser Handheld is an excellent addition to our tool kit," according to Melita Low.

Test results

Adelaide Airport tested the Aerolaser Handheld by keeping a log with the results in the first few weeks. These results were conclusive. All kinds of birds from Australian White Ibis to Galahs were successfully dispersed. "And it doesn't matter if it is a single bird or a whole flock. At first they may move only a couple of meters, but then they move further and further away each time the laser points at them."

Safety

The Aerolaser Handheld helps improving the safety on the airport because the airside operation officers do not have to cross the runways and taxiways as much. The Aerolaser Handheld also includes a patented 'Horizon Safety' feature, which disables the laser past a certain height eliminating the risk of the beam being shone directly at an aircraft. "So the laser is safe for the airport, the aircraft and the birds. A triple win for Adelaide Airport," summarizes Melita Low.

Aerolaser Handheld test results

Adelaide Airport October 2014

Weather conditions	Bird species	Quantity of birds	Distance to birds (m)	Birds dispersed	Details
20°C Sunny	Galah	20	170	Yes	Took a couple of goes to get rid of them but it did work
20°C Overcast	Galah	4	35	Yes	Flew off as though a shot had been fired over fence and off airport
14°C Cloudy	Galah	30	60	Yes	Moved but took a while
	Galah	30	50 to 500	Yes	Moved away from RWY12 undershoot, took 10 minutes to move off airfield, laser effectiveness reduced as sun moved higher
20°C Overcast	Galah	20	30	Yes	Flew off as though a shot had been fired over fence and off airport
20°C Overcast	Galah	40	50	Yes	Instant reaction, flock flew off airport over fence into Burbridge Business Park
	Australian Magpie	7	50	Yes	The did not hang around as soon as the light was next to them, they carried on and flew away
20°C Overcast	Australian Magpie	2	30	Yes	Took a few seconds to react then flew at speed approximately 150m away and well away from the runway
20°C Overcast	Australian Magpie	8	30	Yes	Almost instant reactions. Initially flew as a flock about 100m. From that range I again used the laser. The birds flew out of sight over ops store
15°C Cloudy	Australian Magpie	4	60	Yes	Everytime the laser was pointed at them they moved straight away
15°C Cloudy	Australian Magpie	7	70	Yes	Moved straight away
	Australian Magpie	8	100	Yes	Moved 24m
	Australian Magpie	2	50	Yes	Moved from RWY05 flight strip
20°C Sunny	Australian White Ibis	13	150	Yes	Fled off airport straight away
20°C Sunny	Australian White Ibis		250	Yes	Birds moved from area approximately 50-100m away. Unable to move birds off airfield
20°C Sunny	Australian White Ibis		100	Yes	Birds moved from area approximately 50-100m away. Unable to move birds off airfield
20°C Sunny	Australian White Ibis		50	Yes	Birds moved from area approximately 50-100m away. Unable to move birds off airfield
Fine	Australian White Ibis	5	200 to 500	Temporarily	Birds moved away from one location to another approximately 50m away
17°C Cloudy	Australian White Ibis	15	60	Yes	Dispersed immediately
	Australian White Ibis	40	50 to 200	Yes	Moved around RWY12 undershoot then off the airfield
	Australian White Ibis	8	300	Yes	Moved off airfield from RWY23 undershoot
14°C Cloudy	Feral Pigeon	13	50	Yes	A lot harder to move than other species
	Feral Pigeon	10	200	Yes	Moved away from RWY30 undershoot
17°C Cloudy	Little Raven	6	75	Yes	Ravens dispersed immediately
17°C Cloudy	Common Starling	18	80	Yes	A lot harder to move than other species
17°C Cloudy	Red Fox	1	45	Yes	Moved straight away