

BIRD GARD™

The future of bird control, today.

SONIC HAWK 100

User's Manual

Assembly, Installation, Operation & Maintenance Guide



birdgard.com | 541.549.0205

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Overview

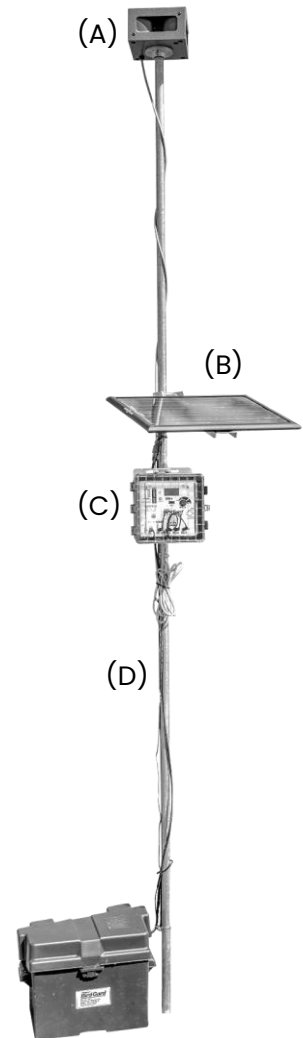
Bird Gard utilizes the natural survival instincts of birds to effectively repel them. Digital recordings of distressed and alarmed birds, along with the sounds made by their natural predators, are broadcast using high-fidelity weather-resistant speakers, triggering a primal fear and flee response. Birds soon relocate to where they can feed without feeling threatened.

Your Bird Gard Sonic Hawk 100 consists of:

- 4-Speaker Box (A) – broadcasts the bird sounds
- Solar Panel (optional) (B) – recharges the 12-volt, deep cycle battery when AC power is not available
- Control Unit (C) – produces the bird sounds and contains all operational controls
- AC Adapter – if using 110V power

Items needed but NOT included:

- Mounting Pole (D) – tall enough to raise the 4-Speaker Box 3–5 feet above crops, tree canopy, or other obstructions
- 12-Volt Deep Cycle Battery (RV/Marine) Group Size 27
- T-Post – may be needed to support the mounting pole
- Hose Clamps – may be needed to secure the mounting pole to the T-Post



⚠ CAUTION: Your Bird Gard Sonic Hawk 100 can produce sounds up to 110 decibels. Hearing protection must be worn anytime the unit is on!

Bird Control Management Guidelines

An active and consistent bird control management program is key to successfully repelling birds. Bird feeding patterns may take several days or weeks to break. Follow all suggestions for maximum effectiveness.

For best results:

- **It is extremely important to fully protect your entire crop from birds. Any unprotected areas will allow birds to feed at the fringes of the sound coverage. Birds will soon become bolder and learn the sounds are not to be feared, diminishing the effectiveness of the system. Complete Bird Gard coverage forces birds to leave the area entirely.**
- Install Bird Gard unit at least two weeks before birds are attracted to the crop. It is much easier to keep birds away before they have found a food source than it is to repel them once they have developed a feeding pattern.
- Most birds begin feeding from the perimeter of a crop. Make sure that the protection of your Bird Gard units covers beyond the edges of the crop.
- Birds will often gather in tall trees and power lines to roost and observe. Position Bird Gard units so that the sound projects into bordering trees.
- Mount the 4-Speaker Box 3–5 feet above tree canopy, crops, and structures to achieve maximum coverage. Mount the control box out of direct sun, if possible. The solar panel must face south (northern hemisphere) without being shaded by foliage or other obstructions.
- For serious infestations, run the Bird Gard units at FULL volume and on SHORT time off interval. When bird pressure diminishes, set the time off interval to MEDIUM or LONG. Do not leave in the SHORT time off interval permanently.
- Watch for changes in bird activity and adjust the location of your Bird Gard unit(s) if necessary.
- Check the battery and settings often to ensure continuous bird control. Be certain that the system is turned ON and has a fully charged battery during crucial times.
- Bird Gard is a management tool and should be used as part of your overall bird-control strategy. Other hazing methods are encouraged and will not negatively impact the effectiveness of Bird Gard.

IMPORTANT: If you have any questions about the use or operation of this product, call us at 541.549.0205, Monday–Friday, 7:30am–4:00pm Pacific Time.

Materials List

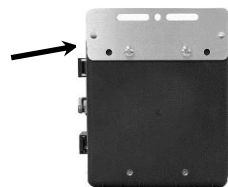
Item	Qty
Bird Gard Sonic Hawk 100 Control Box	1
USB Storage Device	1
4-Speaker Box (Option A)	1
Individual Speakers (Option B)	4
Control Box Mounting U-Bolt	1
Control Box Bracket	1
Adapter and Battery Cables	1
OPTIONAL ACCESSORIES	
25-Watt Solar Panel	1
Solar Panel Mounting Bracket assembly and hardware	1
Solar Panel Mounting U-Bolts	2
Battery Box	1

Assembly

NOTE: You will likely find it easier to pre-assemble the following components prior to installation in the field.

Control Unit

Lay the Control Unit face down. Attach the Control Box Mounting Bracket to the back with the included screws.



Solar Panel Installation and Tilting Instructions

<p>Installation Instructions</p> <ol style="list-style-type: none"> FIG 1. Insert 2 x T-nuts into the frame on the left side of the panel (along the long edge) and 1 x T-nut into the frame on the right side. With T-nuts inserted into the frame, place the bracket across the back of the panel as shown in FIG 2. FIG 3. Use the screws, washers and lock washers to fasten the bracket to the panel. 	<p>FIG 2</p>
	<p>FIG 3</p>
<p>FIG 1</p>	

Figure: Solar Panel Installation and Tilting Instructions

<p>Tilting Instructions</p> <ol style="list-style-type: none"> To tilt the panel first remove the two small phillips head screws from either side of the bracket in Figure 1. Figure 2. Tilt the bracket to the desired angle. Figure 3. Replace the screws to lock the bracket in place. 	
<p>Figure 1</p>	<p>Figure 3</p>
<p>Figure 2</p>	<p>Figure 2</p>

Placement

Your Bird Gard Sonic Hawk 100 will protect a circular area of up to 250 feet in all directions under ideal conditions.

Factors to consider when selecting the best location:

- Bird Gard provides free satellite mapping showing the best placement for optimal bird control. Please call 541.549.0205 for more information and to request a proposal.
- Birds typically begin feeding at the perimeter of the crop and gradually work their way in. Place Bird Gard units so the sound protection extends well beyond the edges of the crop.
- Mount the 4-Speaker Box 3–5 feet above crops, tree canopy, and other obstructions.
- Wind can move sound waves. If the area you need to protect has wind consistently coming from the same direction, position your Bird Gard unit more upwind.
- Trees, high wires, and foliage surrounding crops allow birds to congregate and stage feeding raids. Your Bird Gard unit should be positioned so that the sound extends well into any trees, wires, or foliage bordering the protected area.
- Lakes, rivers, and wetlands are common resting areas for birds. Your Bird Gard unit should be positioned so that the sound extends well into any areas where birds congregate.

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Building a Mounting Pole

⚠ CAUTION: TALL POLES CAN BE HEAVY AND POTENTIALLY DANGEROUS. USE EXTREME CAUTION WHEN CONSTRUCTING OR WORKING AROUND TALL POLES. BIRD GARD ASSUMES NO RESPONSIBILITY FOR DAMAGES OR INJURIES.

Things to consider:

- The 4-Speaker Box is designed to mount on a piece of 1-inch (outside diameter) steel pipe. Water pipe or rigid conduit works well and is readily available in 10-foot lengths at most home improvement stores, or in 21-foot lengths at your local pipe supplier.
- To ensure you get the maximum life out of your Bird Gard unit, take it down after harvest and store it in a dry location during the off season.

A suggestion for masts up to 20 feet tall:

- A galvanized 1-inch (outside diameter) steel water pipe or rigid conduit cut to length is recommended.
- Slide the 4-Speaker Box over the top of the pipe and tighten the set screws in the collar at the base.
- Drive two 7–8-foot heavy steel T-Posts securely into the ground so that the mounting pole is sandwiched between them.
- Use 2 or 3 steel hose clamps to hold the T-posts tightly against the mounting pole.
- Wind may cause the assembled Bird Gard unit to sway but will not adversely affect the performance.

Installation

NOTE: Foliage, trees, and other obstructions reduce the effective range of Bird Gard units. The 4-Speaker Box should be mounted 3–5 feet above all obstructions to achieve the maximum protection.

Mounting Pole or Mast

1. Use the mounting hardware (included) to mount the control unit box to a wall, post, or other vertical surface. Hardware includes: (2) 1/2 in (13 mm) Phillips screws with lock washers, (1) 2-1/2 in (57 mm) U-bolt with mounting plate and nuts, (1) 7 x 2-1/4 in (17.5 x 6 cm) mounting bracket. Mount control box less than 6 ft high (2m) where it is easily accessed.
2. The Pole Support should be in place before proceeding.

4-Speaker Box

1. Cut the zip-tie securing the speaker cable to the 4-Speaker Box.
2. Slide the 4-Speaker Box over the Mounting Pole.

3. Securely tighten the set screw in the Collar at the base of the 4-Speaker Box.
4. Spin the mounting pole a few times so the speaker wire wraps around it.

Solar Panel (Optional)

1. With the glass side of the solar panel facing the 4-Speaker Box, slide the U-Bolts in the Solar Panel Mounting Bracket over the lower end of the Mounting Pole approximately 5 feet from the bottom of the pole or above the height necessary to be above foliage, and tighten the U-Bolts.
2. Stand the Mounting Pole with the 4-Speaker Box on top, against the Pole Support, and securely fasten the Mounting Pole to the Pole Support with 2 or 3 steel hose clamps.
3. The optimum tilt angle is calculated by subtracting 15 degrees from your latitude during summer and adding 15 degrees to your latitude during winter. Face the solar panel toward the south if you are in the northern hemisphere and toward the north if you are in the southern hemisphere.
4. Tighten the hose clamps to prevent wind from rotating the solar panel.



Control Box

1. Attach the Control Box to the Mounting Pole with the included U-bolts.
2. Plug the speaker cables into the jacks marked SPEAKER #1, SPEAKER #2, SPEAKER #3, and SPEAKER #4.
3. Plug in the power cable from the A/C Power Adapter, 12-Volt Battery Clips, or optional Solar Panel into the POWER jack. If using the optional solar panel, the battery clips from the solar panel should be connected to the 12-volt battery BEFORE connecting the power plug to the Control Box.
4. Remove the cable access panel and split grommet from the Control Box and route the speaker cables and the power cable through the split grommet.



5. **MAKE SURE THE POWER SWITCH IS TURNED OFF BEFORE ATTACHING THE 12-VOLT BATTERY CLIPS OR PLUGGING IN THE A/C POWER ADAPTER.**
6. Attach 12-Volt Battery Clips to 12-volt battery or plug in the A/C Power Adapter.

Individual Speakers (Optional)



Individual speakers are ideal for repelling birds from inside and around structures and in agricultural areas where strategic placement is needed.

Placement Considerations:

- Each speaker will repel birds from an area up to 175 feet wide by 275 feet deep and comes with 100 feet of attached Speaker Cable.
- Speakers should be mounted 3–5 feet above foliage and structures.
- When placing Speakers inside buildings, mount them high in the rafters where birds roost.
- Walls and other hard surfaces reflect sound so Speakers should be placed so the sound fills all areas where the birds congregate.
- To prevent birds from entering buildings, place Speakers under eaves directly above doors with the sound projecting to the outside.
- Keep Speaker Cables clear of walkways to prevent tripping.

Speaker Installation:

1. Speakers can be mounted on a structure or post using the provided slots.
2. Plug the speaker cables into the jacks marked SPEAKER #1, SPEAKER #2, SPEAKER #3, and SPEAKER #4.



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Control Box Settings

Repelling birds requires regular monitoring and active management. Birds are intelligent and highly adaptable, so it is important to create and maintain an environment that the birds perceive as dangerous.

IMPORTANT: Call Bird Gard at 541.549.0205 before making any changes that are not suggested in this manual.

Recordings

There are eight separate sound profiles stored on the USB storage device, represented by the eight SOUND dip switches to the left of the USB Drive port. Each profile contains a set of species or predator sounds specifically selected for your area. Keep all SOUND dip switches ON for maximum effect.

IMPORTANT: DO NOT REMOVE THE USB STORAGE DEVICE AT ANY TIME DURING OPERATION. ONLY USE BIRD GARD APPROVED STORAGE DEVICES FOR RELIABLE OPERATION.

Mode Settings

TIME OFF INTERVAL controls the time off periods between each playing of the bird recordings.



Setting	Time Off Duration	Switch #1	Switch #2
SHORT	2–10 Seconds	ON	OFF
MEDIUM	10–30 Seconds	OFF	ON
LONG	30–60 Seconds	ON	ON
X-LONG	60–120 Seconds	OFF	OFF

For maximum harassment, set your machine to SHORT time off interval. Once bird pressure diminishes, set to MEDIUM or LONG time off. Do not permanently leave in the SHORT time off setting.

TIME OF OPERATION

Time of Operation controls the time of day that Your machine will turn on and off automatically.



Setting	Switch #3	Switch #4
DAY ONLY	ON	OFF
24-HOUR	OFF	ON
NIGHT ONLY	ON	ON
NIGHT ONLY	OFF	OFF

Most birds are only active during the day, so the DAY setting is recommended.

Switch #5 RANDOM should always be ON.

Volume should always be set to HIGH during peak operation.

Display

The multi-function display illuminates when the unit is initially turned on and any time the red DISPLAY SCROLL button is pressed.

Pressing the Display Scroll allows you to view:

- Species Profiles assigned to the Recording dipperswitches 1–8
- Operation Mode (Day, Night only, or 24 hours)
- Time Off setting (Short, Medium, Long, or X-Long)
- Random Mode setting (*always set to ON)
- Playlist Title
- Backup Chip – if the USB storage device is removed it will display this and play 8 default calls until the USB storage device is inserted again
- Firmware Version
- Unit Type (Sonic Hawk 100)



The display will remain illuminated for two minutes then automatically shut off. Press the Display Scroll button anytime to illuminate the screen again.

Mute Button Operation

Your Bird Gard Sonic Hawk 100 includes a red Temporary Mute Button located on the right side of the exterior enclosure.

- Press the Mute Button once to mute for one hour.
- Press the Mute Button again to resume normal operation.



Troubleshooting

Problem	Possible Cause	Solution
No Sound	Volume turned down	Turn volume up.
	Adapter not securely plugged in or socket not functioning	Secure adapter into plug and check that socket is functioning properly.
	Mute button pressed	Press mute button once again.
	Dead battery	Attempt to recharge the battery; replace if it will not hold a charge.
	Loose or corroded battery connection	Verify all battery connections are tight and free of corrosion.
	All RECORDINGS are turned OFF	Verify all RECORDINGS switches are set to ON.
	Display shows no sounds being played	Verify all RECORDINGS switches are set to ON.
Was Working, but Stopped	TIME OF OPERATION set to DAY ONLY without enough light	Change the TIME OF OPERATION to 24-HOUR Mode.
	The battery is dead	Attempt to recharge the battery; replace if it will not hold a charge.
	Mute button pressed	Press mute button again.
	Corrosion of the battery post connections	Verify all battery connections are tight and free of corrosion.

	Solar Panel is not getting enough sunlight	Verify the solar panel is facing south and is not obstructed. Recharge the battery.
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Technical Data

Operating Temperature	-17°C to 43°C (0°F to 110°F)
AC Wall Adapter	100–240VAC, 50–60Hz input; 12VDC 1.6A output
Battery Source	12VDC Group 27 wet cell battery. If an external battery is used, it must be protected by a 5A max fuse and installed by qualified personnel.
Altitude Range	Designed for use at an altitude of 6,500 ft (2,000 m) or below.

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Warranty



5-Year Parts and Labor Warranty

- Repairs to or replacement of your unit for 5 years, under normal usage, after your date of purchase. 'Normal Usage' means when correctly installed, maintained, and protected from deliberate or accidental catastrophic damage.
- Covers defects to all hardware and accessories contained in the original packaging.
- Technical Support: telephone support is provided to assist with all aspects of operation and troubleshooting, including all new bioacoustic profiles.

Need Help? We're Here.

541.549.0205

Monday – Friday, 7:30 AM – 4:00 PM Pacific Time

birdgard.com



270 E. Sun Ranch Drive · P.O. Box 1690 · Sisters, OR 97759

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5-Year Warranty · The Future of Bird Control, Today.