

# Bird Diverters

## & Hazing Solutions

### Save Birds. Prevent Damage. Avoid Fines.

Bird diverters from P&R Tech help birds see power lines and avoid potentially fatal collisions. They are proven to dramatically reduce avian fatalities and, when serving as hazing devices, prevent damage to facilities.

- Millions of birds and bats are killed each year in collisions with power lines, guy wires, and other thin profile obstructions.
- Utilities can be subject to large federal fines when protected species are killed.
- Bird strikes also cause power outages.
- Bird nests and droppings cause millions of dollars in damage each year to transformers and other electrical equipment.

**P&R TECH**  
making life visibly safer

800-722-8078  
www.pr-tech.com

## FireFly® & BirdMark® Bird Diverters

- The most effective diverters in independent studies
- Lowest installed cost vs. coils
- Tested by EPRI and recommended by the US Fish and Wildlife Service
- Glows during peak risk at dusk and dawn
- Installs in seconds by hand, hot stick, or drone



### FireFly FF

- Also hazes birds, prevents roosting within 30 foot radius.
- Spins in 1+ mph wind. Stainless steel ball bearing swivel resists salt spray and adverse weather.
- Impact resistant & UV-stabilized acrylic rated for -40 F to 158 F.



### FireFly HW

- Alternate design of FireFly for locations where sustained high winds prevail.
- No moving parts. Sways with the line (does not spin).



### BirdMark

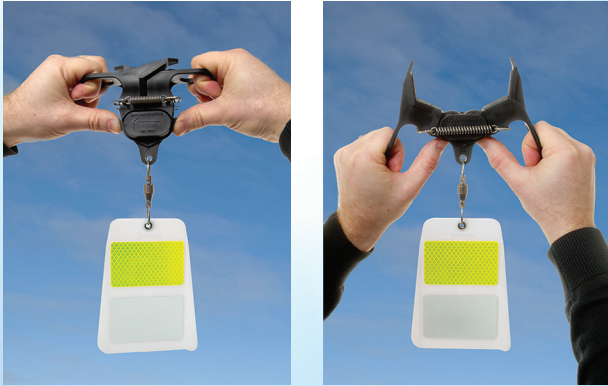
- Similar performance to FireFly FF, but flutters instead of spinning.
- Circular pattern of holes works well in a wide range of winds.
- Lower cost alternative.

### Making Hazards Visible to Birds

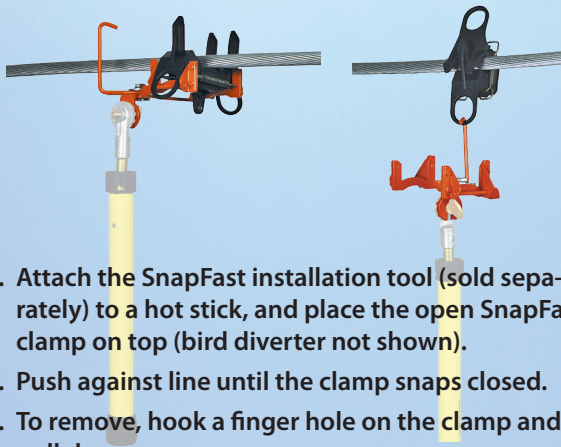
Avian research has shown that birds react to both motion and light. FireFly and BirdMark incorporate several motion and light features:

- In winds above 1 mph, FireFly FF spins and BirdMark flutters.
- Research at Cornell University shows that birds can see both visible and ultraviolet light. FireFly and BirdMark are highly visible to birds in both parts of the spectrum.
- Highly reflective decals refract sunlight and provide a "sparkle effect" visible to birds up to 1500 feet away.
- Luminescent material emits visible light 10–16 hours after dusk, and in low light or fog conditions, when birds are most vulnerable.

# FireFly® & BirdMark®: Fast and Simple Installation



1. Open the patented SnapFast® clamp.



2. Attach the SnapFast installation tool (sold separately) to a hot stick, and place the open SnapFast clamp on top (bird diverter not shown).
3. Push against line until the clamp snaps closed.
4. To remove, hook a finger hole on the clamp and pull down.
5. Recommended spacing:  
FireFly every 30 feet  
BirdMark every 15 feet



FireFly & BirdMark can also be installed by drone.

**PR&TECH**  
making life visibly safer

800-722-8078  
www.pr-tech.com

## FireFly XA Crossarm Bird Hazing

- FireFly FF bird diverter attached to a durable, lightweight stand that clamps securely to crossarms, substations, and other structures.
- Discourages birds from roosting, perching, and building nests.
- Prevents damage & outages
- Available in two sizes:  
16.5" from beam to FireFly  
34" from beam to FireFly



## FireFly WM Wood Mount Bird Hazing

- FireFly FF bird diverter attached to a durable, yet lightweight metal brace that mounts to wood poles and other surfaces.
- Discourages birds from landing, perching, or building nests within a 30 foot radius.



## Woodpecker Hazing

- Woodpeckers are very territorial and steer clear of wood utility poles and other structures when they see our birds on the scene!
- Choose from Pileated Woodpecker (left) or Northern Flicker.
- Heavy duty aluminum printed both sides with special UV paint seen clearly by woodpeckers.
- Protective clear coat.

