

Global Photovoltaic Bird Repeller Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G63D0A35CF5FEN.html>

Date: June 2026

Pages: 183

Price: US\$ 4,480.00 (Single User License)

ID: G63D0A35CF5FEN

Abstracts

The global Photovoltaic Bird Repeller market size is expected to reach \$ 496 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

PV bird repellents are devices used to prevent birds from nesting or roosting in photovoltaic (PV) power plants. These devices usually drive away birds through various means, such as acoustic, visual or physical barriers, to reduce the impact of bird droppings pollution on PV panels and prevent possible hot spot effects, thereby improving the power generation efficiency and safety of PV power plants.

In 2025, the global production of PV bird repellents was 13.78 million units, with an average price of US\$26.3 per unit.

Upstream mainly includes suppliers of photovoltaic modules, small energy storage batteries, control chips, sensors, and driving devices, along with structural and protective materials. The overall technical barrier is moderate, but high requirements exist for weather resistance and long-term stability, with the photovoltaic power system and electronic components accounting for a large portion of costs. Downstream primarily includes photovoltaic plant operators, power companies, and renewable energy investors. Key application scenarios include large-scale ground-mounted plants, distributed solar projects, and areas with high bird activity such as deserts and mountainous regions. Downstream demand focuses on deterrence effectiveness, reliability, and maintenance costs, with large-scale operators emphasizing scalability and long-term performance, while smaller projects prioritize cost and ease of installation. As global photovoltaic installations continue to expand, the importance of operation and maintenance increases, driving steady demand for bird repelling solutions.

The industry is evolving toward intelligent, diversified, and environmentally friendly solutions, with increasing integration of sensors and smart control algorithms for on-demand operation and remote monitoring, and the combination of multiple deterrence methods to enhance effectiveness while minimizing ecological impact. Growth is driven by rapid expansion of photovoltaic capacity, increasing demand for refined operation and maintenance, and growing awareness of bird-related performance losses, along with environmental policies encouraging non-lethal deterrence solutions. Constraints include inconsistent effectiveness across products, variability in bird behavior across regions, challenges in long-term reliability, and product homogenization due to price competition, while fragmented maintenance scenarios add complexity to adoption. Industry gross margins are generally moderate, typically ranging from 30% to 50%, with higher margins for companies offering intelligent control and integrated solutions, while basic products face margin pressure due to competition. Increasing the share of software platforms and maintenance services can help improve overall profitability.

This report studies the global Photovoltaic Bird Repeller production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photovoltaic Bird Repeller and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Photovoltaic Bird Repeller that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Photovoltaic Bird Repeller total production and demand, 2021-2032, (K Units)

Global Photovoltaic Bird Repeller total production value, 2021-2032, (USD Million)

Global Photovoltaic Bird Repeller production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Photovoltaic Bird Repeller consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Photovoltaic Bird Repeller domestic production, consumption, key domestic manufacturers and share

Global Photovoltaic Bird Repeller production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Photovoltaic Bird Repeller production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Photovoltaic Bird Repeller production by Application, production, value, CAGR,

2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Photovoltaic Bird Repeller market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bird B Gone, Bird Control Group, Bird-X, Nixalite of America, Bird Barrier America, Bird Gard LLC, Scarecrow Group Limited, PestFix Group Ltd, Defenders Wildlife Control, Ultrasonic Systems GmbH, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Photovoltaic Bird Repeller market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Photovoltaic Bird Repeller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photovoltaic Bird Repeller Market, Segmentation by Type:

Acoustic Bird Deterrence Type

Ultrasonic Bird Deterrence Type

Laser Bird Deterrence Type

Rotating-Motion Bird Deterrence Type

Hybrid Bird Deterrence Type

Global Photovoltaic Bird Repeller Market, Segmentation by Power Supply and Energy Storage Method:

Solar-Powered Type

Solar-and-Battery Storage Type

Solar-and-Rechargeable-Battery Type

Global Photovoltaic Bird Repeller Market, Segmentation by Control Method:

Continuous-Operation Type

Sensor-Triggered Type

Timer-Controlled Type

Remote-Controlled Type

Global Photovoltaic Bird Repeller Market, Segmentation by Application:

Photovoltaic Power Plants

Substations

Transmission Lines and Utility Poles/Towers

Farms and Orchards

Airport Perimeters

Companies Profiled:

Bird B Gone

Bird Control Group

Bird-X

Nixalite of America

Bird Barrier America

Bird Gard LLC

Scarecrow Group Limited

PestFix Group Ltd

Defenders Wildlife Control

Ultrasonic Systems GmbH

Repel-Tech Systems Ltd

Terma A/S

Enviroguard Solutions Pty Ltd

Bird Stop Australia Pty Ltd

Bird Control Australia Pty Ltd

Laser Bird Deterrent Solutions Ltd

Sankyo Corporation

Takikawa Engineering Co., Ltd.

Contech Electronics Inc.

EcoBird Control Products

Woodstream Corporation

Kelvin Hughes

Rohde & Schwarz GmbH & Co. KG

Shenzhen Tongkai Electronics Co., Ltd.

Shenzhen Telikang Technology Co., Ltd.

Suzhou Maichuang Information Technology Co., Ltd.

Hebei Jinneng Electric Power Technology Co., Ltd.

Shandong Aoka Electronic Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Photovoltaic Bird Repeller market?
2. What is the demand of the global Photovoltaic Bird Repeller market?
3. What is the year over year growth of the global Photovoltaic Bird Repeller market?
4. What is the production and production value of the global Photovoltaic Bird Repeller market?
5. Who are the key producers in the global Photovoltaic Bird Repeller market?
6. What are the growth factors driving the market demand?

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