

Global Photovoltaic Bird Repeller Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Photovoltaic Bird Repeller market size was valued at US\$ 373 million in 2025 and is forecast to a readjusted size of US\$ 496 million by 2032 with a CAGR of 4.2% during review period.

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 is a detailed and comprehensive analysis for global Photovoltaic Bird Repeller market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Photovoltaic Bird Repeller market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Photovoltaic Bird Repeller market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Photovoltaic Bird Repeller market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Photovoltaic Bird Repeller market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Photovoltaic Bird Repeller

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Photovoltaic Bird Repeller market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Photovoltaic Bird Repeller market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Acoustic Bird Deterrence Type

Ultrasonic Bird Deterrence Type

Laser Bird Deterrence Type

Rotating-Motion Bird Deterrence Type

Hybrid Bird Deterrence Type

Market segment by Power Supply and Energy Storage Method

Solar-Powered Type

Solar-and-Battery Storage Type

Solar-and-Rechargeable-Battery Type

Market segment by Control Method

Continuous-Operation Type

Sensor-Triggered Type

Timer-Controlled Type

Remote-Controlled Type

Market segment by Application

Photovoltaic Power Plants

Substations

Transmission Lines and Utility Poles/Towers

Farms and Orchards

Airport Perimeters

Major players covered

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.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Photovoltaic Bird Repeller product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Photovoltaic Bird Repeller, with price, sales quantity, revenue, and global market share of Photovoltaic Bird

Repeller from 2021 to 2026.

Chapter 3, the Photovoltaic Bird Repeller competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Photovoltaic Bird Repeller breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Photovoltaic Bird Repeller market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Photovoltaic Bird Repeller.

Chapter 14 and 15, to describe Photovoltaic Bird Repeller sales channel, distributors, customers, research findings and conclusion.

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