

Global Crop Growth Monitoring Camera Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G61B4E08D936EN.html>

Date: September 2026

Pages: 141

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

ID: G61B4E08D936EN

Abstracts

The global Crop Growth Monitoring Camera market size is expected to reach \$ 968 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

In 2025, global Crop Growth Monitoring Camera production reached approximately 430,000 units, with an average global market price of around USD 1,200 per unit.

The gross profit margin of major companies in the industry is between 35%–50%.

In 2025, the global production capacity of Crop Growth Monitoring Camera was approximately 600,000 units.

Crop Growth Monitoring Camera is an agricultural imaging device designed to continuously capture and analyze crop growth conditions in farming environments. It uses optical imaging, multispectral sensing, and intelligent analysis technologies to monitor plant growth, leaf conditions, crop coverage, and environmental changes. These cameras are mainly used in precision agriculture, greenhouse farming, field monitoring, and crop management systems. The product scope includes dedicated agricultural monitoring cameras and integrated imaging devices, excluding general surveillance cameras and consumer imaging equipment.

The industry chain of Crop Growth Monitoring Camera includes upstream optical and electronic components, midstream camera manufacturing and system integration, and downstream agricultural applications. Upstream suppliers provide image sensors, lenses, processors, communication modules, and related components. Midstream manufacturers conduct hardware assembly, software integration, calibration, and quality

testing. Downstream applications include farms, agricultural enterprises, greenhouses, research institutions, and precision farming service providers.

Report Scope

This report studies the global Crop Growth Monitoring Camera production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Crop Growth Monitoring Camera 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 Crop Growth Monitoring Camera that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Crop Growth Monitoring Camera total production and demand, 2021-2032, (Units)

Global Crop Growth Monitoring Camera total production value, 2021-2032, (USD Million)

Global Crop Growth Monitoring Camera production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Crop Growth Monitoring Camera consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Crop Growth Monitoring Camera domestic production, consumption, key domestic manufacturers and share

Global Crop Growth Monitoring Camera production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Crop Growth Monitoring Camera production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Crop Growth Monitoring Camera production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Crop Growth Monitoring Camera 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 Sentera, Inc., MicaSense, Inc., Teledyne FLIR LLC, Basler AG, Campbell Scientific, Inc., Pessl Instruments GmbH, Semios Technologies Inc., Arable Labs, Inc., CropX Technologies Ltd., Prospera Technologies Ltd., 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 Crop Growth Monitoring Camera market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Crop Growth Monitoring Camera Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Crop Growth Monitoring Camera Market, Segmentation by Type:

RGB Camera

Multispectral Camera

Hyperspectral Camera

Global Crop Growth Monitoring Camera Market, Segmentation by Installation Type:

Fixed Monitoring Camera

Mobile Monitoring Camera

Drone Mounted Monitoring Camera

Global Crop Growth Monitoring Camera Market, Segmentation by Image Resolution:

Low Resolution Camera (<2 MP)

Medium Resolution Camera (2–12 MP)

High Resolution Camera (>12 MP)

Global Crop Growth Monitoring Camera Market, Segmentation by Application:

Precision Agriculture

Smart Greenhouse Management

Agricultural Research and Experimentation

Other

Companies Profiled:

Sentera, Inc.

MicaSense, Inc.

Teledyne FLIR LLC

Basler AG

Campbell Scientific, Inc.

Pessl Instruments GmbH

Semios Technologies Inc.

Arable Labs, Inc.

CropX Technologies Ltd.

Prospera Technologies Ltd.

Vivid Machines Inc.

Hexagon Agriculture

Hangzhou Hikvision Digital Technology Co., Ltd.

Dahua Technology Co., Ltd.

XAG Co., Ltd.

DJI Agriculture

Shandong Top Cloud-agriculture Technology Co., Ltd.

Beijing Kingpeng International Hi-Tech Corporation

Suzhou Shiqi Intelligent Technology Co., Ltd.

Shenzhen Infinova Limited

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Crop Growth Monitoring Camera Introduction
- 1.2 World Crop Growth Monitoring Camera Supply & Forecast
 - 1.2.1 World Crop Growth Monitoring Camera Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Crop Growth Monitoring Camera Production (2021-2032)
 - 1.2.3 World Crop Growth Monitoring Camera Pricing Trends (2021-2032)
- 1.3 World Crop Growth Monitoring Camera Production by Region (Based on Production Site)
 - 1.3.1 World Crop Growth Monitoring Camera Production Value by Region (2021-2032)
 - 1.3.2 World Crop Growth Monitoring Camera Production by Region (2021-2032)
 - 1.3.3 World Crop Growth Monitoring Camera Average Price by Region (2021-2032)
 - 1.3.4 North America Crop Growth Monitoring Camera Production (2021-2032)
 - 1.3.5 Europe Crop Growth Monitoring Camera Production (2021-2032)
 - 1.3.6 China Crop Growth Monitoring Camera Production (2021-2032)
 - 1.3.7 Japan Crop Growth Monitoring Camera Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Crop Growth Monitoring Camera Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Crop Growth Monitoring Camera Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Crop Growth Monitoring Camera Demand (2021-2032)
- 2.2 World Crop Growth Monitoring Camera Consumption by Region
 - 2.2.1 World Crop Growth Monitoring Camera Consumption by Region (2021-2026)
 - 2.2.2 World Crop Growth Monitoring Camera Consumption Forecast by Region (2027-2032)
- 2.3 United States Crop Growth Monitoring Camera Consumption (2021-2032)
- 2.4 China Crop Growth Monitoring Camera Consumption (2021-2032)
- 2.5 Europe Crop Growth Monitoring Camera Consumption (2021-2032)
- 2.6 Japan Crop Growth Monitoring Camera Consumption (2021-2032)
- 2.7 South Korea Crop Growth Monitoring Camera Consumption (2021-2032)
- 2.8 ASEAN Crop Growth Monitoring Camera Consumption (2021-2032)
- 2.9 India Crop Growth Monitoring Camera Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Crop Growth Monitoring Camera Production Value by Manufacturer (2021-2026)
- 3.2 World Crop Growth Monitoring Camera Production by Manufacturer (2021-2026)
- 3.3 World Crop Growth Monitoring Camera Average Price by Manufacturer (2021-2026)
- 3.4 Crop Growth Monitoring Camera Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Crop Growth Monitoring Camera Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Crop Growth Monitoring Camera in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Crop Growth Monitoring Camera in 2025
- 3.6 Crop Growth Monitoring Camera Market: Overall Company Footprint Analysis
 - 3.6.1 Crop Growth Monitoring Camera Market: Region Footprint
 - 3.6.2 Crop Growth Monitoring Camera Market: Company Product Type Footprint
 - 3.6.3 Crop Growth Monitoring Camera Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Crop Growth Monitoring Camera Production Value Comparison
 - 4.1.1 United States VS China: Crop Growth Monitoring Camera Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Crop Growth Monitoring Camera Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Crop Growth Monitoring Camera Production Comparison
 - 4.2.1 United States VS China: Crop Growth Monitoring Camera Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Crop Growth Monitoring Camera Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Crop Growth Monitoring Camera Consumption Comparison
 - 4.3.1 United States VS China: Crop Growth Monitoring Camera Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Crop Growth Monitoring Camera Consumption Market

Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Crop Growth Monitoring Camera Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Crop Growth Monitoring Camera Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Crop Growth Monitoring Camera Production Value (2021-2026)

4.4.3 United States Based Manufacturers Crop Growth Monitoring Camera Production (2021-2026)

4.5 China Based Crop Growth Monitoring Camera Manufacturers and Market Share

4.5.1 China Based Crop Growth Monitoring Camera Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Crop Growth Monitoring Camera Production Value (2021-2026)

4.5.3 China Based Manufacturers Crop Growth Monitoring Camera Production (2021-2026)

4.6 Rest of World Based Crop Growth Monitoring Camera Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Crop Growth Monitoring Camera Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Crop Growth Monitoring Camera Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Crop Growth Monitoring Camera Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Crop Growth Monitoring Camera Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 RGB Camera

5.2.2 Multispectral Camera

5.2.3 Hyperspectral Camera

5.3 Market Segment by Type

5.3.1 World Crop Growth Monitoring Camera Production by Type (2021-2032)

5.3.2 World Crop Growth Monitoring Camera Production Value by Type (2021-2032)

5.3.3 World Crop Growth Monitoring Camera Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY INSTALLATION TYPE

6.1 World Crop Growth Monitoring Camera Market Size Overview by Installation Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Installation Type

6.2.1 Fixed Monitoring Camera

6.2.2 Mobile Monitoring Camera

6.2.3 Drone Mounted Monitoring Camera

6.3 Market Segment by Installation Type

6.3.1 World Crop Growth Monitoring Camera Production by Installation Type (2021-2032)

6.3.2 World Crop Growth Monitoring Camera Production Value by Installation Type (2021-2032)

6.3.3 World Crop Growth Monitoring Camera Average Price by Installation Type (2021-2032)

7 MARKET ANALYSIS BY IMAGE RESOLUTION

7.1 World Crop Growth Monitoring Camera Market Size Overview by Image Resolution: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Image Resolution

7.2.1 Low Resolution Camera (<2 MP)

7.2.2 Medium Resolution Camera (2–12 MP)

7.2.3 High Resolution Camera (>12 MP)

7.3 Market Segment by Image Resolution

7.3.1 World Crop Growth Monitoring Camera Production by Image Resolution (2021-2032)

7.3.2 World Crop Growth Monitoring Camera Production Value by Image Resolution (2021-2032)

7.3.3 World Crop Growth Monitoring Camera Average Price by Image Resolution (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Crop Growth Monitoring Camera Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Precision Agriculture

8.2.2 Smart Greenhouse Management

8.2.3 Agricultural Research and Experimentation

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Crop Growth Monitoring Camera Production by Application (2021-2032)

8.3.2 World Crop Growth Monitoring Camera Production Value by Application (2021-2032)

8.3.3 World Crop Growth Monitoring Camera Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Sentera, Inc.

9.1.1 Sentera, Inc. Details

9.1.2 Sentera, Inc. Major Business

9.1.3 Sentera, Inc. Crop Growth Monitoring Camera Product and Services

9.1.4 Sentera, Inc. Crop Growth Monitoring Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Sentera, Inc. Recent Developments/Updates

9.1.6 Sentera, Inc. Competitive Strengths & Weaknesses

9.2 MicaSense, Inc.

9.2.1 MicaSense, Inc. Details

9.2.2 MicaSense, Inc. Major Business

9.2.3 MicaSense, Inc. Crop Growth Monitoring Camera Product and Services

9.2.4 MicaSense, Inc. Crop Growth Monitoring Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 MicaSense, Inc. Recent Developments/Updates

9.2.6 MicaSense, Inc. Competitive Strengths & Weaknesses

9.3 Teledyne FLIR LLC

9.3.1 Teledyne FLIR LLC Details

9.3.2 Teledyne FLIR LLC Major Business

9.3.3 Teledyne FLIR LLC Crop Growth Monitoring Camera Product and Services

9.3.4 Teledyne FLIR LLC Crop Growth Monitoring Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Teledyne FLIR LLC Recent Developments/Updates

9.3.6 Teledyne FLIR LLC Competitive Strengths & Weaknesses

9.4 Basler AG

9.4.1 Basler AG Details

9.4.2 Basler AG Major Business

9.4.3 Basler AG Crop Growth Monitoring Camera Product and Services

9.4.4 Basler AG Crop Growth Monitoring Camera Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.4.5 Basler AG Recent Developments/Updates

9.4.6 Basler AG Competitive Strengths & Weaknesses

9.5 Campbell Scientific, Inc.

9.5.1 Campbell Scientific, Inc. Details

9.5.2 Campbell Scientific, Inc. Major Business

9.5.3 Campbell Scientific, Inc. Crop Growth Monitoring Camera Product and Services

9.5.4 Campbell Scientific, Inc. Crop Growth Monitoring Camera Production, Price,

Value, Gross Margin and Market Share (2021-2026)

9.5.5 Campbell Scientific, Inc. Recent Developments/Updates

9.5.6 Campbell Scientific, Inc. Competitive Strengths & Weaknesses

9.6 Pessl Instruments GmbH

9.6.1 Pessl Instruments GmbH Details

9.6.2 Pessl Instruments GmbH Major Business

9.6.3 Pessl Instruments GmbH Crop Growth Monitoring Camera Product and Services

9.6.4 Pessl Instruments GmbH Crop Growth Monitoring Camera Production, Price,

Value, Gross Margin and Market Share (2021-2026)

9.6.5 Pessl Instruments GmbH Recent Developments/Updates

9.6.6 Pessl Instruments GmbH Competitive Strengths & Weaknesses

9.7 Semios Technologies Inc.

9.7.1 Semios Technologies Inc. Details

9.7.2 Semios Technologies Inc. Major Business

9.7.3 Semios Technologies Inc. Crop Growth Monitoring Camera Product and

Services

9.7.4 Semios Technologies Inc. Crop Growth Monitoring Camera Production, Price,

Value, Gross Margin and Market Share (2021-2026)

9.7.5 Semios Technologies Inc. Recent Developments/Updates

9.7.6 Semios Technologies Inc. Competitive Strengths & Weaknesses

9.8 Arable Labs, Inc.

9.8.1 Arable Labs, Inc. Details

9.8.2 Arable Labs, Inc. Major Business

9.8.3 Arable Labs, Inc. Crop Growth Monitoring Camera Product and Services

9.8.4 Arable Labs, Inc. Crop Growth Monitoring Camera Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.8.5 Arable Labs, Inc. Recent Developments/Updates

9.8.6 Arable Labs, Inc. Competitive Strengths & Weaknesses

9.9 CropX Technologies Ltd.

9.9.1 CropX Technologies Ltd. Details

9.9.2 CropX Technologies Ltd. Major Business

- 9.9.3 CropX Technologies Ltd. Crop Growth Monitoring Camera Product and Services
- 9.9.4 CropX Technologies Ltd. Crop Growth Monitoring Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 CropX Technologies Ltd. Recent Developments/Updates
- 9.9.6 CropX Technologies Ltd. Competitive Strengths & Weaknesses
- 9.10 Prospera Technologies Ltd.
 - 9.10.1 Prospera Technologies Ltd. Details
 - 9.10.2 Prospera Technologies Ltd. Major Business
 - 9.10.3 Prospera Technologies Ltd. Crop Growth Monitoring Camera Product and Services
 - 9.10.4 Prospera Technologies Ltd. Crop Growth Monitoring Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Prospera Technologies Ltd. Recent Developments/Updates
 - 9.10.6 Prospera Technologies Ltd. Competitive Strengths & Weaknesses
- 9.11 Vivid Machines Inc.
 - 9.11.1 Vivid Machines Inc. Details
 - 9.11.2 Vivid Machines Inc. Major Business
 - 9.11.3 Vivid Machines Inc. Crop Growth Monitoring Camera Product and Services
 - 9.11.4 Vivid Machines Inc. Crop Growth Monitoring Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Vivid Machines Inc. Recent Developments/Updates
 - 9.11.6 Vivid Machines Inc. Competitive Strengths & Weaknesses
- 9.12 Hexagon Agriculture
 - 9.12.1 Hexagon Agriculture Details
 - 9.12.2 Hexagon Agriculture Major Business
 - 9.12.3 Hexagon Agriculture Crop Growth Monitoring Camera Product and Services
 - 9.12.4 Hexagon Agriculture Crop Growth Monitoring Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Hexagon Agriculture Recent Developments/Updates
 - 9.12.6 Hexagon Agriculture Competitive Strengths & Weaknesses
- 9.13 Hangzhou Hikvision Digital Technology Co., Ltd.
 - 9.13.1 Hangzhou Hikvision Digital Technology Co., Ltd. Details
 - 9.13.2 Hangzhou Hikvision Digital Technology Co., Ltd. Major Business
 - 9.13.3 Hangzhou Hikvision Digital Technology Co., Ltd. Crop Growth Monitoring Camera Product and Services
 - 9.13.4 Hangzhou Hikvision Digital Technology Co., Ltd. Crop Growth Monitoring Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Hangzhou Hikvision Digital Technology Co., Ltd. Recent Developments/Updates

9.13.6 Hangzhou Hikvision Digital Technology Co., Ltd. Competitive Strengths & Weaknesses

9.14 Dahua Technology Co., Ltd.

9.14.1 Dahua Technology Co., Ltd. Details

9.14.2 Dahua Technology Co., Ltd. Major Business

9.14.3 Dahua Technology Co., Ltd. Crop Growth Monitoring Camera Product and Services

9.14.4 Dahua Technology Co., Ltd. Crop Growth Monitoring Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Dahua Technology Co., Ltd. Recent Developments/Updates

9.14.6 Dahua Technology Co., Ltd. Competitive Strengths & Weaknesses

9.15 XAG Co., Ltd.

9.15.1 XAG Co., Ltd. Details

9.15.2 XAG Co., Ltd. Major Business

9.15.3 XAG Co., Ltd. Crop Growth Monitoring Camera Product and Services

9.15.4 XAG Co., Ltd. Crop Growth Monitoring Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 XAG Co., Ltd. Recent Developments/Updates

9.15.6 XAG Co., Ltd. Competitive Strengths & Weaknesses

9.16 DJI Agriculture

9.16.1 DJI Agriculture Details

9.16.2 DJI Agriculture Major Business

9.16.3 DJI Agriculture Crop Growth Monitoring Camera Product and Services

9.16.4 DJI Agriculture Crop Growth Monitoring Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 DJI Agriculture Recent Developments/Updates

9.16.6 DJI Agriculture Competitive Strengths & Weaknesses

9.17 Shandong Top Cloud-agriculture Technology Co., Ltd.

9.17.1 Shandong Top Cloud-agriculture Technology Co., Ltd. Details

9.17.2 Shandong Top Cloud-agriculture Technology Co., Ltd. Major Business

9.17.3 Shandong Top Cloud-agriculture Technology Co., Ltd. Crop Growth Monitoring Camera Product and Services

9.17.4 Shandong Top Cloud-agriculture Technology Co., Ltd. Crop Growth Monitoring Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Shandong Top Cloud-agriculture Technology Co., Ltd. Recent Developments/Updates

9.17.6 Shandong Top Cloud-agriculture Technology Co., Ltd. Competitive Strengths & Weaknesses

9.18 Beijing Kingpeng International Hi-Tech Corporation

- 9.18.1 Beijing Kingpeng International Hi-Tech Corporation Details
- 9.18.2 Beijing Kingpeng International Hi-Tech Corporation Major Business
- 9.18.3 Beijing Kingpeng International Hi-Tech Corporation Crop Growth Monitoring Camera Product and Services
- 9.18.4 Beijing Kingpeng International Hi-Tech Corporation Crop Growth Monitoring Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.18.5 Beijing Kingpeng International Hi-Tech Corporation Recent Developments/Updates
- 9.18.6 Beijing Kingpeng International Hi-Tech Corporation Competitive Strengths & Weaknesses
- 9.19 Suzhou Shiqi Intelligent Technology Co., Ltd.
 - 9.19.1 Suzhou Shiqi Intelligent Technology Co., Ltd. Details
 - 9.19.2 Suzhou Shiqi Intelligent Technology Co., Ltd. Major Business
 - 9.19.3 Suzhou Shiqi Intelligent Technology Co., Ltd. Crop Growth Monitoring Camera Product and Services
 - 9.19.4 Suzhou Shiqi Intelligent Technology Co., Ltd. Crop Growth Monitoring Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Suzhou Shiqi Intelligent Technology Co., Ltd. Recent Developments/Updates
 - 9.19.6 Suzhou Shiqi Intelligent Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.20 Shenzhen Infinova Limited
 - 9.20.1 Shenzhen Infinova Limited Details
 - 9.20.2 Shenzhen Infinova Limited Major Business
 - 9.20.3 Shenzhen Infinova Limited Crop Growth Monitoring Camera Product and Services
 - 9.20.4 Shenzhen Infinova Limited Crop Growth Monitoring Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 Shenzhen Infinova Limited Recent Developments/Updates
 - 9.20.6 Shenzhen Infinova Limited Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Crop Growth Monitoring Camera Industry Chain
- 10.2 Crop Growth Monitoring Camera Upstream Analysis
 - 10.2.1 Crop Growth Monitoring Camera Core Raw Materials
 - 10.2.2 Main Manufacturers of Crop Growth Monitoring Camera Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Crop Growth Monitoring Camera Production Mode

10.6 Crop Growth Monitoring Camera Procurement Model

10.7 Crop Growth Monitoring Camera Industry Sales Model and Sales Channels

10.7.1 Crop Growth Monitoring Camera Sales Model

10.7.2 Crop Growth Monitoring Camera Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Crop Growth Monitoring Camera Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Crop Growth Monitoring Camera Production Value by Region (2021-2026) & (USD Million)

Table 3. World Crop Growth Monitoring Camera Production Value by Region (2027-2032) & (USD Million)

Table 4. World Crop Growth Monitoring Camera Production Value Market Share by Region (2021-2026)

Table 5. World Crop Growth Monitoring Camera Production Value Market Share by Region (2027-2032)

Table 6. World Crop Growth Monitoring Camera Production by Region (2021-2026) & (Units)

Table 7. World Crop Growth Monitoring Camera Production by Region (2027-2032) & (Units)

Table 8. World Crop Growth Monitoring Camera Production Market Share by Region (2021-2026)

Table 9. World Crop Growth Monitoring Camera Production Market Share by Region (2027-2032)

Table 10. World Crop Growth Monitoring Camera Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Crop Growth Monitoring Camera Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Crop Growth Monitoring Camera Major Market Trends

Table 13. World Crop Growth Monitoring Camera Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Crop Growth Monitoring Camera Consumption by Region (2021-2026) & (Units)

Table 15. World Crop Growth Monitoring Camera Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Crop Growth Monitoring Camera Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Crop Growth Monitoring Camera Producers in 2025

Table 18. World Crop Growth Monitoring Camera Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Crop Growth Monitoring Camera Producers in 2025

Table 20. World Crop Growth Monitoring Camera Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Crop Growth Monitoring Camera Company Evaluation Quadrant

Table 22. World Crop Growth Monitoring Camera Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Crop Growth Monitoring Camera Production Site of Key Manufacturer

Table 24. Crop Growth Monitoring Camera Market: Company Product Type Footprint

Table 25. Crop Growth Monitoring Camera Market: Company Product Application Footprint

Table 26. Crop Growth Monitoring Camera Competitive Factors

Table 27. Crop Growth Monitoring Camera New Entrant and Capacity Expansion Plans

Table 28. Crop Growth Monitoring Camera Mergers & Acquisitions Activity

Table 29. United States VS China Crop Growth Monitoring Camera Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Crop Growth Monitoring Camera Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Crop Growth Monitoring Camera Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Crop Growth Monitoring Camera Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Crop Growth Monitoring Camera Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Crop Growth Monitoring Camera Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Crop Growth Monitoring Camera Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Crop Growth Monitoring Camera Production Market Share (2021-2026)

Table 37. China Based Crop Growth Monitoring Camera Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Crop Growth Monitoring Camera Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Crop Growth Monitoring Camera Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Crop Growth Monitoring Camera Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Crop Growth Monitoring Camera Production Market Share (2021-2026)

Table 42. Rest of World Based Crop Growth Monitoring Camera Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Crop Growth Monitoring Camera Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Crop Growth Monitoring Camera Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Crop Growth Monitoring Camera Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Crop Growth Monitoring Camera Production Market Share (2021-2026)

Table 47. World Crop Growth Monitoring Camera Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Crop Growth Monitoring Camera Production by Type (2021-2026) & (Units)

Table 49. World Crop Growth Monitoring Camera Production by Type (2027-2032) & (Units)

Table 50. World Crop Growth Monitoring Camera Production Value by Type (2021-2026) & (USD Million)

Table 51. World Crop Growth Monitoring Camera Production Value by Type (2027-2032) & (USD Million)

Table 52. World Crop Growth Monitoring Camera Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Crop Growth Monitoring Camera Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Crop Growth Monitoring Camera Production Value by Installation Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Crop Growth Monitoring Camera Production by Installation Type (2021-2026) & (Units)

Table 56. World Crop Growth Monitoring Camera Production by Installation Type (2027-2032) & (Units)

Table 57. World Crop Growth Monitoring Camera Production Value by Installation Type (2021-2026) & (USD Million)

Table 58. World Crop Growth Monitoring Camera Production Value by Installation Type (2027-2032) & (USD Million)

Table 59. World Crop Growth Monitoring Camera Average Price by Installation Type (2021-2026) & (US\$/Unit)

Table 60. World Crop Growth Monitoring Camera Average Price by Installation Type

(2027-2032) & (US\$/Unit)

Table 61. World Crop Growth Monitoring Camera Production Value by Image Resolution, (USD Million), 2021 & 2025 & 2032

Table 62. World Crop Growth Monitoring Camera Production by Image Resolution (2021-2026) & (Units)

Table 63. World Crop Growth Monitoring Camera Production by Image Resolution (2027-2032) & (Units)

Table 64. World Crop Growth Monitoring Camera Production Value by Image Resolution (2021-2026) & (USD Million)

Table 65. World Crop Growth Monitoring Camera Production Value by Image Resolution (2027-2032) & (USD Million)

Table 66. World Crop Growth Monitoring Camera Average Price by Image Resolution (2021-2026) & (US\$/Unit)

Table 67. World Crop Growth Monitoring Camera Average Price by Image Resolution (2027-2032) & (US\$/Unit)

Table 68. World Crop Growth Monitoring Camera Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Crop Growth Monitoring Camera Production by Application (2021-2026) & (Units)

Table 70. World Crop Growth Monitoring Camera Production by Application (2027-2032) & (Units)

Table 71. World Crop Growth Monitoring Camera Production Value by Application (2021-2026) & (USD Million)

Table 72. World Crop Growth Monitoring Camera Production Value by Application (2027-2032) & (USD Million)

Table 73. World Crop Growth Monitoring Camera Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Crop Growth Monitoring Camera Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Sentera, Inc. Basic Information, Manufacturing Base and Competitors

Table 76. Sentera, Inc. Major Business

Table 77. Sentera, Inc. Crop Growth Monitoring Camera Product and Services

Table 78. Sentera, Inc. Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Sentera, Inc. Recent Developments/Updates

Table 80. Sentera, Inc. Competitive Strengths & Weaknesses

Table 81. MicaSense, Inc. Basic Information, Manufacturing Base and Competitors

Table 82. MicaSense, Inc. Major Business

Table 83. MicaSense, Inc. Crop Growth Monitoring Camera Product and Services

Table 84. MicaSense, Inc. Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. MicaSense, Inc. Recent Developments/Updates

Table 86. MicaSense, Inc. Competitive Strengths & Weaknesses

Table 87. Teledyne FLIR LLC Basic Information, Manufacturing Base and Competitors

Table 88. Teledyne FLIR LLC Major Business

Table 89. Teledyne FLIR LLC Crop Growth Monitoring Camera Product and Services

Table 90. Teledyne FLIR LLC Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Teledyne FLIR LLC Recent Developments/Updates

Table 92. Teledyne FLIR LLC Competitive Strengths & Weaknesses

Table 93. Basler AG Basic Information, Manufacturing Base and Competitors

Table 94. Basler AG Major Business

Table 95. Basler AG Crop Growth Monitoring Camera Product and Services

Table 96. Basler AG Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Basler AG Recent Developments/Updates

Table 98. Basler AG Competitive Strengths & Weaknesses

Table 99. Campbell Scientific, Inc. Basic Information, Manufacturing Base and Competitors

Table 100. Campbell Scientific, Inc. Major Business

Table 101. Campbell Scientific, Inc. Crop Growth Monitoring Camera Product and Services

Table 102. Campbell Scientific, Inc. Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Campbell Scientific, Inc. Recent Developments/Updates

Table 104. Campbell Scientific, Inc. Competitive Strengths & Weaknesses

Table 105. Pessl Instruments GmbH Basic Information, Manufacturing Base and Competitors

Table 106. Pessl Instruments GmbH Major Business

Table 107. Pessl Instruments GmbH Crop Growth Monitoring Camera Product and Services

Table 108. Pessl Instruments GmbH Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 109. Pessl Instruments GmbH Recent Developments/Updates

Table 110. Pessl Instruments GmbH Competitive Strengths & Weaknesses

Table 111. Semios Technologies Inc. Basic Information, Manufacturing Base and Competitors

Table 112. Semios Technologies Inc. Major Business

Table 113. Semios Technologies Inc. Crop Growth Monitoring Camera Product and Services

Table 114. Semios Technologies Inc. Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Semios Technologies Inc. Recent Developments/Updates

Table 116. Semios Technologies Inc. Competitive Strengths & Weaknesses

Table 117. Arable Labs, Inc. Basic Information, Manufacturing Base and Competitors

Table 118. Arable Labs, Inc. Major Business

Table 119. Arable Labs, Inc. Crop Growth Monitoring Camera Product and Services

Table 120. Arable Labs, Inc. Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Arable Labs, Inc. Recent Developments/Updates

Table 122. Arable Labs, Inc. Competitive Strengths & Weaknesses

Table 123. CropX Technologies Ltd. Basic Information, Manufacturing Base and Competitors

Table 124. CropX Technologies Ltd. Major Business

Table 125. CropX Technologies Ltd. Crop Growth Monitoring Camera Product and Services

Table 126. CropX Technologies Ltd. Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. CropX Technologies Ltd. Recent Developments/Updates

Table 128. CropX Technologies Ltd. Competitive Strengths & Weaknesses

Table 129. Prospera Technologies Ltd. Basic Information, Manufacturing Base and Competitors

Table 130. Prospera Technologies Ltd. Major Business

Table 131. Prospera Technologies Ltd. Crop Growth Monitoring Camera Product and Services

Table 132. Prospera Technologies Ltd. Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Prospera Technologies Ltd. Recent Developments/Updates
Table 134. Prospera Technologies Ltd. Competitive Strengths & Weaknesses
Table 135. Vivid Machines Inc. Basic Information, Manufacturing Base and Competitors
Table 136. Vivid Machines Inc. Major Business
Table 137. Vivid Machines Inc. Crop Growth Monitoring Camera Product and Services
Table 138. Vivid Machines Inc. Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Vivid Machines Inc. Recent Developments/Updates
Table 140. Vivid Machines Inc. Competitive Strengths & Weaknesses
Table 141. Hexagon Agriculture Basic Information, Manufacturing Base and Competitors
Table 142. Hexagon Agriculture Major Business
Table 143. Hexagon Agriculture Crop Growth Monitoring Camera Product and Services
Table 144. Hexagon Agriculture Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Hexagon Agriculture Recent Developments/Updates
Table 146. Hexagon Agriculture Competitive Strengths & Weaknesses
Table 147. Hangzhou Hikvision Digital Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 148. Hangzhou Hikvision Digital Technology Co., Ltd. Major Business
Table 149. Hangzhou Hikvision Digital Technology Co., Ltd. Crop Growth Monitoring Camera Product and Services
Table 150. Hangzhou Hikvision Digital Technology Co., Ltd. Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Hangzhou Hikvision Digital Technology Co., Ltd. Recent Developments/Updates
Table 152. Hangzhou Hikvision Digital Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 153. Dahua Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 154. Dahua Technology Co., Ltd. Major Business
Table 155. Dahua Technology Co., Ltd. Crop Growth Monitoring Camera Product and Services
Table 156. Dahua Technology Co., Ltd. Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Dahua Technology Co., Ltd. Recent Developments/Updates
Table 158. Dahua Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 159. XAG Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 160. XAG Co., Ltd. Major Business
Table 161. XAG Co., Ltd. Crop Growth Monitoring Camera Product and Services
Table 162. XAG Co., Ltd. Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. XAG Co., Ltd. Recent Developments/Updates
Table 164. XAG Co., Ltd. Competitive Strengths & Weaknesses
Table 165. DJI Agriculture Basic Information, Manufacturing Base and Competitors
Table 166. DJI Agriculture Major Business
Table 167. DJI Agriculture Crop Growth Monitoring Camera Product and Services
Table 168. DJI Agriculture Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. DJI Agriculture Recent Developments/Updates
Table 170. DJI Agriculture Competitive Strengths & Weaknesses
Table 171. Shandong Top Cloud-agriculture Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 172. Shandong Top Cloud-agriculture Technology Co., Ltd. Major Business
Table 173. Shandong Top Cloud-agriculture Technology Co., Ltd. Crop Growth Monitoring Camera Product and Services
Table 174. Shandong Top Cloud-agriculture Technology Co., Ltd. Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 175. Shandong Top Cloud-agriculture Technology Co., Ltd. Recent Developments/Updates
Table 176. Shandong Top Cloud-agriculture Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 177. Beijing Kingpeng International Hi-Tech Corporation Basic Information, Manufacturing Base and Competitors
Table 178. Beijing Kingpeng International Hi-Tech Corporation Major Business
Table 179. Beijing Kingpeng International Hi-Tech Corporation Crop Growth Monitoring Camera Product and Services
Table 180. Beijing Kingpeng International Hi-Tech Corporation Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 181. Beijing Kingpeng International Hi-Tech Corporation Recent

Developments/Updates

Table 182. Beijing Kingpeng International Hi-Tech Corporation Competitive Strengths & Weaknesses

Table 183. Suzhou Shiqi Intelligent Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 184. Suzhou Shiqi Intelligent Technology Co., Ltd. Major Business

Table 185. Suzhou Shiqi Intelligent Technology Co., Ltd. Crop Growth Monitoring Camera Product and Services

Table 186. Suzhou Shiqi Intelligent Technology Co., Ltd. Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Suzhou Shiqi Intelligent Technology Co., Ltd. Recent Developments/Updates

Table 188. Suzhou Shiqi Intelligent Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 189. Shenzhen Infinova Limited Basic Information, Manufacturing Base and Competitors

Table 190. Shenzhen Infinova Limited Major Business

Table 191. Shenzhen Infinova Limited Crop Growth Monitoring Camera Product and Services

Table 192. Shenzhen Infinova Limited Crop Growth Monitoring Camera Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Shenzhen Infinova Limited Recent Developments/Updates

Table 194. Shenzhen Infinova Limited Competitive Strengths & Weaknesses

Table 195. Global Key Players of Crop Growth Monitoring Camera Upstream (Raw Materials)

Table 196. Global Crop Growth Monitoring Camera Typical Customers

Table 197. Crop Growth Monitoring Camera Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Crop Growth Monitoring Camera Picture

Figure 2. World Crop Growth Monitoring Camera Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Crop Growth Monitoring Camera Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Crop Growth Monitoring Camera Production (2021-2032) & (Units)

Figure 5. World Crop Growth Monitoring Camera Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Crop Growth Monitoring Camera Production Value Market Share by Region (2021-2032)

Figure 7. World Crop Growth Monitoring Camera Production Market Share by Region (2021-2032)

Figure 8. North America Crop Growth Monitoring Camera Production (2021-2032) & (Units)

Figure 9. Europe Crop Growth Monitoring Camera Production (2021-2032) & (Units)

Figure 10. China Crop Growth Monitoring Camera Production (2021-2032) & (Units)

Figure 11. Japan Crop Growth Monitoring Camera Production (2021-2032) & (Units)

Figure 12. Crop Growth Monitoring Camera Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Crop Growth Monitoring Camera Consumption (2021-2032) & (Units)

Figure 15. World Crop Growth Monitoring Camera Consumption Market Share by Region (2021-2032)

Figure 16. United States Crop Growth Monitoring Camera Consumption (2021-2032) & (Units)

Figure 17. China Crop Growth Monitoring Camera Consumption (2021-2032) & (Units)

Figure 18. Europe Crop Growth Monitoring Camera Consumption (2021-2032) & (Units)

Figure 19. Japan Crop Growth Monitoring Camera Consumption (2021-2032) & (Units)

Figure 20. South Korea Crop Growth Monitoring Camera Consumption (2021-2032) & (Units)

Figure 21. ASEAN Crop Growth Monitoring Camera Consumption (2021-2032) & (Units)

Figure 22. India Crop Growth Monitoring Camera Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Crop Growth Monitoring Camera by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Crop Growth Monitoring Camera Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Crop Growth Monitoring Camera Markets in 2025

Figure 26. United States VS China: Crop Growth Monitoring Camera Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Crop Growth Monitoring Camera Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Crop Growth Monitoring Camera Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Crop Growth Monitoring Camera Production Market Share 2025

Figure 30. China Based Manufacturers Crop Growth Monitoring Camera Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Crop Growth Monitoring Camera Production Market Share 2025

Figure 32. World Crop Growth Monitoring Camera Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Crop Growth Monitoring Camera Production Value Market Share by Type in 2025

Figure 34. RGB Camera

Figure 35. Multispectral Camera

Figure 36. Hyperspectral Camera

Figure 37. World Crop Growth Monitoring Camera Production Market Share by Type (2021-2032)

Figure 38. World Crop Growth Monitoring Camera Production Value Market Share by Type (2021-2032)

Figure 39. World Crop Growth Monitoring Camera Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Crop Growth Monitoring Camera Production Value by Installation Type, (USD Million), 2021 & 2025 & 2032

Figure 41. World Crop Growth Monitoring Camera Production Value Market Share by Installation Type in 2025

Figure 42. Fixed Monitoring Camera

Figure 43. Mobile Monitoring Camera

Figure 44. Drone Mounted Monitoring Camera

Figure 45. World Crop Growth Monitoring Camera Production Market Share by Installation Type (2021-2032)

Figure 46. World Crop Growth Monitoring Camera Production Value Market Share by Installation Type (2021-2032)

Figure 47. World Crop Growth Monitoring Camera Average Price by Installation Type

(2021-2032) & (US\$/Unit)

Figure 48. World Crop Growth Monitoring Camera Production Value by Image Resolution, (USD Million), 2021 & 2025 & 2032

Figure 49. World Crop Growth Monitoring Camera Production Value Market Share by Image Resolution in 2025

Figure 50. Low Resolution Camera (<2 MP)

Figure 51. Medium Resolution Camera (2–12 MP)

Figure 52. High Resolution Camera (>12 MP)

Figure 53. World Crop Growth Monitoring Camera Production Market Share by Image Resolution (2021-2032)

Figure 54. World Crop Growth Monitoring Camera Production Value Market Share by Image Resolution (2021-2032)

Figure 55. World Crop Growth Monitoring Camera Average Price by Image Resolution (2021-2032) & (US\$/Unit)

Figure 56. World Crop Growth Monitoring Camera Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Crop Growth Monitoring Camera Production Value Market Share by Application in 2025

Figure 58. Precision Agriculture

Figure 59. Smart Greenhouse Management

Figure 60. Agricultural Research and Experimentation

Figure 61. Other

Figure 62. World Crop Growth Monitoring Camera Production Market Share by Application (2021-2032)

Figure 63. World Crop Growth Monitoring Camera Production Value Market Share by Application (2021-2032)

Figure 64. World Crop Growth Monitoring Camera Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. Crop Growth Monitoring Camera Industry Chain

Figure 66. Crop Growth Monitoring Camera Procurement Model

Figure 67. Crop Growth Monitoring Camera Sales Model

Figure 68. Crop Growth Monitoring Camera Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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