

# Global Single Pixel Infrared Cameras Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Single Pixel Infrared Cameras market size is expected to reach \$ 404 million by 2032, rising at a market growth of 11.3% CAGR during the forecast period (2026-2032).

In 2025, global Single Pixel Infrared Camera output reached roughly 26,000 units versus an installed worldwide production capacity of about 31,000 units; with average unit price USD 7,100, this market structure enables leading suppliers to sustain typical gross margins near 44%. Single Pixel Infrared Cameras are imaging systems that form thermal images using a single infrared-sensitive detector combined with spatial modulation—typically via a digital micromirror device (DMD), MEMS mask, or coded aperture—reconstructing the scene computationally through compressive sensing or correlation algorithms, rather than using a focal-plane array. This architecture dramatically reduces sensor cost, extends spectral coverage into MWIR/LWIR bands that are expensive for array detectors, and enables operation in harsh or specialized spectral regimes. The supply chain begins upstream with infrared detector materials and devices (InSb, MCT, InGaAs, microbolometers), MEMS modulators (DMD or spatial light modulators), and optical components (IR lenses, filters, windows in germanium, ZnSe, chalcogenide glass). Midstream integrators combine the detector, modulator, optics, readout electronics, and embedded computing hardware, along with reconstruction algorithms and firmware. Downstream, systems are packaged into industrial, scientific, and defense-grade cameras and sold to end users in spectroscopy, remote sensing, non-destructive testing, security, and research markets, where value is increasingly driven by software performance, spectral range, and system-level integration rather than by the detector alone.

This report studies the global Single Pixel Infrared Cameras production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single Pixel Infrared Cameras 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 Single Pixel Infrared Cameras that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Single Pixel Infrared Cameras total production and demand, 2021-2032, (K Units)

Global Single Pixel Infrared Cameras total production value, 2021-2032, (USD Million)

Global Single Pixel Infrared Cameras production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Single Pixel Infrared Cameras consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Single Pixel Infrared Cameras domestic production, consumption, key domestic manufacturers and share

Global Single Pixel Infrared Cameras production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Single Pixel Infrared Cameras production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Single Pixel Infrared Cameras production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Single Pixel Infrared Cameras 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 Teledyne FLIR, Seek Thermal, InfraTec, Optris, Lynred, Xenics, Opgal, Fortive, Canon, Jenoptik, 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 Single Pixel Infrared Cameras 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 Single Pixel Infrared Cameras Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Single Pixel Infrared Cameras Market, Segmentation by Type:

2D Infrared Cameras

3D Infrared Cameras

#### Global Single Pixel Infrared Cameras Market, Segmentation by Spectral Band:

NIR (0.9–1.7  $\mu$ m)

SWIR (1–2.5  $\mu$ m)

MWIR (3–5  $\mu$ m)

LWIR (8–14 μm)

Global Single Pixel Infrared Cameras Market, Segmentation by Application:

Scientific Research

Industrial Inspection

Environmental Monitoring

Defense & Security

Energy & Utilities

Others

Companies Profiled:

Teledyne FLIR

Seek Thermal

InfraTec

Optris

Lynred

Xenics

Opgal

Fortive

Canon

Jenoptik

**Key Questions Answered:**

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

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