

# Global Single Pixel Infrared Cameras Market Growth 2026-2032

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## Abstracts

The global Single Pixel Infrared Cameras market size is predicted to grow from US\$ 181 million in 2025 to US\$ 398 million in 2032; it is expected to grow at a CAGR of 12.0% from 2026 to 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.

United States market for Single Pixel Infrared Cameras is estimated to increase from

US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Single Pixel Infrared Cameras is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Single Pixel Infrared Cameras is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Single Pixel Infrared Cameras players cover Teledyne FLIR, Seek Thermal, InfraTec, Optris, Lynred, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Single Pixel Infrared Cameras Industry Forecast" looks at past sales and reviews total world Single Pixel Infrared Cameras sales in 2025, providing a comprehensive analysis by region and market sector of projected Single Pixel Infrared Cameras sales for 2026 through 2032. With Single Pixel Infrared Cameras sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Single Pixel Infrared Cameras industry.

This Insight Report provides a comprehensive analysis of the global Single Pixel Infrared Cameras landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Single Pixel Infrared Cameras portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Single Pixel Infrared Cameras market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Single Pixel Infrared Cameras and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Single Pixel Infrared Cameras.

This report presents a comprehensive overview, market shares, and growth opportunities of Single Pixel Infrared Cameras market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Type:

2D Infrared Cameras

3D Infrared Cameras

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  $\mu$ m)

Segmentation by Application:

Scientific Research

Industrial Inspection

Environmental Monitoring

Defense & Security

Energy & Utilities

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Teledyne FLIR

Seek Thermal

InfraTec

Optris

Lynred

Xenics

Opgal

Fortive

Canon

Jenoptik

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Single Pixel Infrared Cameras market?

What factors are driving Single Pixel Infrared Cameras market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Single Pixel Infrared Cameras market opportunities vary by end market size?

How does Single Pixel Infrared Cameras break out by Type, by Application?

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