

# Global Aerial Thermal Inspection Systems Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global Aerial Thermal Inspection Systems market size is predicted to grow from US\$ 2402 million in 2025 to US\$ 6376 million in 2032; it is expected to grow at a CAGR of 15.0% from 2026 to 2032.

Aerial Thermal Inspection Systems are advanced inspection solutions that use airborne platforms?such as drones, helicopters, or fixed-wing aircraft?equipped with thermal infrared cameras to detect temperature variations on surfaces and infrastructure. Pricing for aerial thermal inspection systems typically ranges from \$3,000?\$80,000 for drone hardware, \$50,000?\$250,000+ for full enterprise systems, and about \$1,000?\$1,500 per field day or \$25,000+ per large project for inspection services.

United States market for Aerial Thermal Inspection Systems 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 Aerial Thermal Inspection Systems 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 Aerial Thermal Inspection Systems is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Aerial Thermal Inspection Systems players cover Teledyne FLIR, DJI, Autel Robotics, Lockheed Martin, Northrop Grumman, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the ?Aerial Thermal Inspection Systems

Industry Forecast? looks at past sales and reviews total world Aerial Thermal Inspection Systems sales in 2025, providing a comprehensive analysis by region and market sector of projected Aerial Thermal Inspection Systems sales for 2026 through 2032. With Aerial Thermal Inspection Systems sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Aerial Thermal Inspection Systems industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Aerial Thermal Inspection Systems 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 Aerial Thermal Inspection Systems.

This report presents a comprehensive overview, market shares, and growth opportunities of Aerial Thermal Inspection Systems market by product type, application, key players and key regions and countries.

#### Segmentation by Type:

Thermal Cameras

UAV Platforms

AI Analytics Software

Data Processing Systems

Communication & Control Systems

### Segmentation By Technology:

- Uncooled Infrared (IR) Cameras
- Cooled Thermal Imaging Systems
- Radiometric Thermal Sensors
- Multi-Spectral / Hybrid Imaging Systems

### Segmentation By Deployment Mode:

- In-House Inspection Teams
- Drone Service Providers (Outsourced)
- UAV-as-a-Service (DaaS) Platforms

### Segmentation by Application:

- Utilities
- Energy & Power Companies
- Oil & Gas Industry
- Construction & Infrastructure Firms
- Agriculture Sector
- Government & Public Safety Agencies

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 analyzing the company's coverage, product portfolio, its market penetration.

Teledyne FLIR

DJI

Autel Robotics

Lockheed Martin

Northrop Grumman

BAE Systems

Raytheon Technologies (RTX)

Thales Group

Leonardo S.p.A.

Teledyne Technologies

Ziyan UAV

AeroVironment

Yuneec International

Eding Intelligent Technology

Aerobot Avionics Technologies

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