

Global Metal Surface Pyrometer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GA7488E59DA1EN.html>

Date: June 2026

Pages: 161

Price: US\$ 3,480.00 (Single User License)

ID: GA7488E59DA1EN

Abstracts

According to our (Global Info Research) latest study, the global Metal Surface Pyrometer market size was valued at US\$ 194 million in 2025 and is forecast to a readjusted size of US\$ 319 million by 2032 with a CAGR of 7.3% during review period.

Metal surface pyrometers are specialized temperature measuring instruments used to measure the actual temperature of metal workpieces or equipment surfaces under medium to high temperature conditions. They are generally divided into two main categories: contact type (surface thermocouple/resistance temperature detector probes are directly attached to the metal surface) and non-contact type (measuring surface radiation energy and converting it to temperature through infrared radiation or colorimetric principles). The former is mostly used for inspection and process verification of equipment shells, pipes, heat exchangers, and heat-treated parts, while the latter can perform long-distance rapid temperature measurement in high-temperature, moving, or difficult-to-contact scenarios such as steel rolling, forging, casting, and heat treatment production lines. Compared to ordinary industrial thermometers, metal surface pyrometers place greater emphasis on measurement accuracy and response speed under complex conditions such as high temperature, strong radiation, changes in emissivity, and surface oxidation. They are important tools for process control and safety monitoring in industries such as iron and steel metallurgy, non-ferrous metals, and mechanical heat treatment. In 2024, sales volume was 420,000 units, the average price was \$450, and the gross profit margin was 43%.

From the demand side, metal surface pyrometers have evolved from 'auxiliary tools for maintenance engineers' into essential sensors for process control and energy efficiency management in industries such as steel, aluminum, forging, and heat treatment. On the

one hand, products such as high-strength steel, alloy steel, and aluminum alloys are becoming increasingly sensitive to heating-holding-cooling curves. Even slight temperature deviations can lead to unstable microstructure, performance discrepancies, and increased scrap rates. Downstream customers in automotive, aviation, and wind power sectors are also continuously raising consistency requirements, forcing production lines to upgrade from 'relying on experience and color' to 'relying on data and closed-loop systems.' On the other hand, the pressure of energy conservation, emission reduction, and carbon costs has forced heating furnaces, rolling mills, and heat treatment furnaces to transform towards 'on-demand heating' and 'precise temperature control.' Without reliable surface pyrometers for online monitoring and spot checks, many energy efficiency optimizations remain merely theoretical. Therefore, steel mills, forging plants, bearing plants, and aluminum profile/plate/strip plants that are still expanding production or undergoing intelligent upgrades theoretically have the potential to incorporate 'infrared/colorimetric pyrometers + surface temperature inspection' into their standard configurations. Demand will primarily come from upgrading existing lines and constructing new ones, rather than from one-off special purchases.

From the supply side, this category exhibits a bipolar structure: 'low-end coil prices, high-end coil technology and integration.' Handheld medium-low temperature infrared thermometers are highly homogenized, with numerous e-commerce brands and continuously decreasing prices, making channel and cost competition more crucial. Those manufacturers with real bargaining power are those that can differentiate themselves in high-temperature ranges, complex operating conditions, and system integration. For example, they can maintain stable measurements above 1200°, handle high reflectivity, oxide scale, and smoke obstruction, provide stable emissivity compensation and calibration services, and integrate the pyrometer with PLC, DCS, MES, and quality traceability systems, turning it into the 'process eyes' of heating furnaces and rolling lines. The growth potential worth noting in the next 3-5 years comes from two main sources: firstly, the upgrading demand for online pyrometers and surface temperature closed-loop systems driven by high-end steel grades, precision heat treatment, and aluminum alloys; and secondly, the integration with 'digital production lines/industrial internet,' which transforms pyrometers from single-point instruments into part of 'data nodes + algorithm services.' Whoever can upgrade from 'selling a single meter' to 'selling a complete temperature control/energy efficiency optimization solution' will have more stable gross profit margins and customer loyalty.

This report is a detailed and comprehensive analysis for global Metal Surface Pyrometer 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 Metal Surface Pyrometer market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Metal Surface Pyrometer 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 Metal Surface Pyrometer 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 Metal Surface Pyrometer 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 Metal Surface Pyrometer

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 Metal Surface Pyrometer 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 Fluke, Keller HCW, Optris, FLIR Systems, Accurate Sensors Technologies(AST), LumaSense Technologies, PCE Instruments, Optron, Calex, Ametek Land, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Metal Surface Pyrometer 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

Stationary Pyrometers

Portable Pyrometers

Market segment by Measurement Principle

Contact Type

Non-contact Type

Market segment by Temperature Range

Medium Temperature Type (approx. 0?500?)

High Temperature Type (approx. 500?1200?)

Ultra-high Temperature Type (up to 1600?)

Market segment by Application

Industrial

Chemical

Food & Medical

HVAC

Others

Major players covered

Fluke

Keller HCW

Optris

FLIR Systems

Accurate Sensors Technologies(AST)

LumaSense Technologies

PCE Instruments

Optron

Calex

Ametek Land

Williamson Corporation

DIAS Infrared GmbH

Omega Engineering

Sensortherm

Milwaukee Tool

Precision Mastech

Chino

Testo

Tashika

Uni-Trend Technology

Smart Sensor

CEM

Shenzhen Flus Technology

Wuhan Dkoe

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 Metal Surface Pyrometer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Metal Surface Pyrometer, with price, sales quantity, revenue, and global market share of Metal Surface Pyrometer from 2021 to 2026.

Chapter 3, the Metal Surface Pyrometer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Metal Surface Pyrometer 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 Metal Surface Pyrometer 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 Metal Surface Pyrometer.

Chapter 14 and 15, to describe Metal Surface Pyrometer sales channel, distributors, customers, research findings and conclusion.

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