

Pyrometer Market with COVID-19 Impact Analysis, by Type (Fixed, Handheld), Technology (Optical, Infrared), Wavelength (Single Wavelength, Multiwavelength), End-user Industry (Ceramics, Glass, Metal Processing), and Geography - Global Forecast to 2025

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Abstracts

The pyrometer market is estimated to grow from USD 327 million in 2020 to reach

USD 464 million by 2025; it is expected to grow at a CAGR of 7.3% from 2020 to 2025. A few key factors driving the growth of this market are increased importance of non-contact temperature measurements, emphasis of end-user industries on rugged temperature measurement devices, Industry 4.0 pushed demand for pyrometers, and surged popularity of application-specific pyrometers.

“The pyrometer market for fixed type is expected to grow at a higher CAGR from 2020 to 2025”

The pyrometer market for fixed type is expected to grow at higher CAGR from 2020 to 2025. The key factor driving the growth of this segment is the increased demand for high-precision temperature measurements in industries with harsh environments. Ongoing digitalization and automation of various industries have led to the rise in demand for continuous temperature measurement devices, thereby stimulating the growth in demand for fixed pyrometers across the world.

“Multiwavelength segment is expected to hold larger share of pyrometer market during forecast period”

Multiwavelength segment is expected to hold larger share of pyrometer market during forecast period. Multiwavelength pyrometers are ideal for high-temperature measurements for all low-emissivity materials, offer the real-time measurement of temperature. They can simultaneously measure single-wavelength and dual or multi-wavelength temperature values. This growth is also driven by the wide range of applications of multiwavelength pyrometers in metal processing industries such as galvanized/gal annealed steel, aluminum extrusion, quench, and strip, among others.

“Europe to account for second largest size of pyrometer market during forecast period”

Europe to account for second largest size of pyrometer market during forecast period. Europe’s continuous technological developments, coupled with the increasing usage of temperature measurement devices to ensure safety, will push the demand for the pyrometer market in the coming years. Europe is one of the major glass producers worldwide. The glass market in Europe is driven by the construction, automotive, energy, engineering, and food services industries.

Breakdown of the profile of primary participants:

By Company Type: Tier 1 – 40 %, Tier 2 – 45%, and Tier 3 – 15%

By Designation: C-level Executives – 45%, Directors – 30%, Others - 25%

By Region: North America – 30%, Europe – 40%, APAC – 25%, and RoW – 5%

AMETEK Land (US), Fluke Corporation (US), CHINO Corporation (Japan), Advanced Energy Industries, Inc. (US), OMEGA Engineering (US), PCE Instruments (Germany), Optris GmbH (Germany), Sensortherm GmbH (Germany), CI Systems (US), DIAS Infrared GmbH (Germany), Williamson Corporation (US), and Micro-Epsilon (Germany) are few major players in pyrometer market.

Research Coverage

Based on type, the pyrometer market has been segmented into fixed and handheld. Based on product technology, the pyrometer market has been segmented into optical and infrared. Based on wavelength, the pyrometer market has been segmented into single wavelength and multiwavelength. Based on end-user industry, the pyrometer

market has been segmented into ceramics, glass, and metal processing. Based on glass manufacturing type, the pyrometer market has been further segmented into forehearth, melt tank, lehr, tin bath, and others. Based on region, the pyrometer market has been segmented into North America, Europe, Asia Pacific (APAC), and Rest of the World (RoW).

Reasons to Buy Report

The report would help market leaders/new entrants in the following ways:

1. This report segments the pyrometer market comprehensively and provides the closest approximations of the overall market size, as well as that of the subsegments across types, technologies, wavelengths, end-user industries, and regions.
2. The report helps stakeholders understand the pulse of the market and provides information on key market drivers, restraints, challenges, and opportunities.
3. This report would help stakeholders understand their competitors better and gain more insights to enhance their position in the business. The competitive landscape provides market share analysis and company evaluation quadrant for the key players operating in the pyrometer market.

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*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

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About

The report "Pyrometer Market by Type (Fixed Type, Handheld Type), Technology (Optical, Infrared), End-use Vertical (Glass Industry, Ceramic Industry, Metal Processing Industry), and Geography (North America, Europe, Asia Pacific, RoW) - Global forecast to 2023", The pyrometer market is estimated to grow from USD 542.4 Million in 2017 to USD 815.9 Million by 2023, at a CAGR of 7.0% between 2017 and 2023.

The major players in the pyrometer market are

Land Instruments International (UK)

Advanced Energy Industries (US)

Accurate Sensors Technologies (Israel)

Proxitron (Germany)

PCE Instruments (Germany)

LumaSense Technologies (US)

Optris (Germany)

AOIP (France)

Optron (Germany)

BARTEC (Germany)

CHINO CORPORATION (Japan)

Calex Electronics (UK)

Micro-Epsilon (Germany)

B+B Thermo-Technik (Germany)

OPTEX CO. (Japan)

OMEGA Engineering (UK)

Fluke Process Instruments (US)

Increasing automation in the industrial sector and increasing demand for robust temperature-measuring devices in industries, such as glass, forging, and ceramics, are some of the driving factors for the growth of the pyrometer market. In the aforementioned industries, the devices used must be efficient and robust to perform precise operations even in harsh environments, and pyrometer is one such device. Most processes and systems in the manufacturing industry are being automated, and accurate temperature measurement with pyrometer is one such process. This factor would increase the demand for pyrometers in the industrial sector.

IR pyrometers expected to hold major share of pyrometer market during forecast period

The infrared (IR) pyrometer measures temperature of an object or surface from the radiation emitted by the object or surface. IR pyrometer is expected to be the dominant technology in the pyrometer market during the forecast period. This dominance of the IR pyrometer is mainly attributed to its high sensitivity in high temperature, which makes it suitable for end-user industries to detect high temperature with more accuracy.

Market for fixed pyrometers to hold a major share of the pyrometer market between 2017 and 2023

Fixed mount pyrometers are usually installed at one location for continuously monitoring the temperature of a target or surface. Fixed pyrometers are used for the temperature measurement in critical processes such as glass manufacturing, forging, rolling, and die casting because these pyrometers can be used in hazardous environmental conditions. Moreover, these pyrometers help in continuous temperature monitoring, which is one of the main requirements of the industries

Metal processing industry expected to hold a major share of the pyrometer market between 2017 and 2023

In the metal processing industry, pyrometers are used to measure temperatures at different stages of various process including forging, rolling, extrusion, and die forming. Forging companies prefer robust, accurate, and standalone temperature measurement devices such as pyrometers and thermal imagers over thermocouples. This trend is expected to continue throughout the forecast period, thereby providing significant opportunities to pyrometer providers.

Europe is expected to dominate the pyrometer market between 2017 and 2023

This dominance is mainly attributed to the increasing automation in the industrial sector and the increasing demand for pyrometers for non-contact temperature measurement, which would create significant opportunities for pyrometer providers in this region. The higher growth rate is mainly attributed to the technological advancement in the temperature monitoring processes and the increasing use of remote temperature measurement devices for ensuring safety in high-temperature applications such as forging, glass, and ceramics. Europe is the second-largest steel producer in the world; hence, it is expected that there would be a significant demand for pyrometers in this region in the near future.

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