

Australia and New Zealand Thermal and Acoustic Imaging Market Size and Forecast (2021 - 2031), Country Share, Trend, and Growth Opportunity Analysis Report Coverage: By Thermal Imaging [Type (Thermal Cameras, Thermal Scopes, and Thermal Modules), Technology (Cooled and Uncooled), Wavelength (SWIR, MWIR, and LWIR), and End User (Defense, Automotive, Healthcare and Life Sciences, Oil and Gas, Mining, Utilities, Food and Beverages, Datacenters, and Others)] and Acoustic Imaging [End User (Mining, Utilities, Food and Beverages, and Others)]

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Abstracts

The Australia and New Zealand Thermal and Acoustic Imaging Market size was valued at US\$ 135.12 million in 2023 and is anticipated to reach US\$ 211.04 million. The Australia and New Zealand Thermal and Acoustic Imaging Market is estimated to record a CAGR of 5.7% from 2023 to 2031.

Environmental monitoring involves using tools and techniques to observe and assess environmental quality and measure the impact of activities on the environment. Data is collected, analyzed, and compiled into reports for risk and impact assessments. The goal is to manage and reduce an organization's environmental impact, ensuring legal compliance and protecting both the environment and human health.

Acoustic imaging has quickly become an invaluable tool for monitoring the environment, offering a creative and effective way to study both natural and human-made changes through sound. Using sound waves to collect data provides a non-invasive and affordable way to track the health of ecosystems, monitor marine life, and observe urban environments without disrupting the surroundings. For example, in July 2024, research led by Nelson's Cawthron Institute shed new light on the underwater lives of Hector's dolphins, including the animals' feeding and diving behaviors, which experts have not previously recorded. The study used DTAGs (digital acoustic recording tags) fitted with suction cups and temporarily attached to Hector's dolphins in Marlborough's Te Koko-o-Kupe/Cloudy Bay. With the increasing environmental concerns and stringent safety regulations, industries are adopting acoustic imaging to monitor emissions and ensure compliance. For instance, acoustic imaging cameras can effectively locate fugitive emissions and air leaks, making them valuable tools for environmental management. With the help of sound recordings from an ecosystem, environmental monitoring companies or authorities can detect alien or endangered species, describe species phenology, and document changes in ecological status or human impacts on nature. Acoustic imaging cameras are also effective in environmental monitoring, where they can locate and provide early warnings for abnormal noise levels, helping to address potential environmental concerns proactively. Australian Public Service (APS) and Net Zero National Environmental Monitoring Standards (NEMS) are a few of the government standards and services that promote the use of environmental monitoring solutions. Thus, the use of acoustic imaging for environment monitoring is fueling the Australia and New Zealand Thermal and Acoustic Imaging Market growth.

Based on wavelength, the Australia and New Zealand Thermal and Acoustic Imaging Market is segmented into SWIR, MWIR, and LWIR. The MWIR segment held the largest Australia and New Zealand Thermal and Acoustic Imaging Market share in 2023. Middle wavelength infrared (MWIR) is typically defined as the 3.0–5.0 μ m wavelength range. MWIR cameras are used as detection systems for gas leaks such as methane, propane, ethanol, and sulfur hexafluoride. Drones with MWIR cameras mounted on them are used for safety inspections of machinery and infrastructure that contain pollutants and toxic gases. These cameras are also used when precision is more important than exact temperature, enabling their application in airport perimeter security and laboratory research for engineers and scientists. MWIR cameras offer crisp imagery, precise temperature measurement, and streamlined analysis capabilities required for industrial, military, and manufacturing research and development applications. This leads to their demand from the industrial, manufacturing, and defense sectors.

Teledyne FLIR LLC; Testo SE & Co. KGaA; Fluke Corporation; UNI-TREND TECHNOLOGY (CHINA) CO., LTD.; Hangzhou Microimage Software Co., Ltd.; Megger Group Limited; and SDT International SA/NV are among the prominent players profiled in the Australia and New Zealand Thermal and Acoustic Imaging Market report. Several other major players were also studied and analyzed in the Australia and New Zealand Thermal and Acoustic Imaging Market report to get a holistic view of the market and its ecosystem.

The overall Australia and New Zealand Thermal and Acoustic Imaging Market share has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the Australia and New Zealand Thermal and Acoustic Imaging Market. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the Australia and New Zealand Thermal and Acoustic Imaging Market.

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