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Global Non-Intrusive Load Monitoring Device Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Non-Intrusive Load Monitoring Device market size is expected to reach $ 355 million by 2032, rising at a market growth of 12.5% CAGR during the forecast period (2026-2032).

In 2025, global sales of Non-Intrusive Load Monitoring Devices reached approximately 520,000 units, with an average manufacturer-level selling price of about USD 290 per unit. Gross margins among major manufacturers were approximately 30%–42%.

A Non-Intrusive Load Monitoring Device is an intelligent monitoring device capable of identifying and disaggregating overall electricity consumption without requiring a separate meter or sensor to be installed on each electrical appliance. It is typically connected to the main incoming power line, electricity meter, or distribution circuit, where it continuously collects voltage, current, power, and waveform data. Load disaggregation algorithms are then used to determine the operating status, power consumption, and energy usage of individual appliances or load categories. Its key advantage lies in using a single measurement point to identify multiple loads, enabling itemized energy consumption analysis, abnormal electricity-use detection, equipment condition monitoring, and energy-saving diagnostics at relatively low installation and retrofit costs. The product is also characterized by simple installation, broad monitoring coverage, high data granularity, and suitability for large-scale deployment.

The upstream supply chain of Non-Intrusive Load Monitoring Devices mainly includes current transformers, voltage acquisition chips, metering chips, microprocessors, communication modules, memory components, power modules, printed circuit boards, and structural components, together with load signature databases, identification algorithms, and embedded software. Midstream companies are responsible for

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hardware design, data acquisition, algorithm integration, terminal manufacturing, and platform adaptation. Downstream demand primarily comes from residential buildings, commercial buildings, industrial facilities, and public facilities. Key customers include power utilities, energy service providers, property management companies, industrial users, and smart home solution providers, which use these devices for itemized energy monitoring, equipment condition analysis, electrical safety management, energy efficiency optimization, and demand-side management.

Report Scope

This report studies the global Non-Intrusive Load Monitoring Device production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Non-Intrusive Load Monitoring Device and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Non-Intrusive Load Monitoring Device that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Non-Intrusive Load Monitoring Device total production and demand, 2021-2032, (Units)

Global Non-Intrusive Load Monitoring Device total production value, 2021-2032, (USD Million)

Global Non-Intrusive Load Monitoring Device production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Non-Intrusive Load Monitoring Device consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Non-Intrusive Load Monitoring Device domestic production, consumption, key domestic manufacturers and share

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Global Non-Intrusive Load Monitoring Device production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Non-Intrusive Load Monitoring Device production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Non-Intrusive Load Monitoring Device production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Non-Intrusive Load Monitoring Device market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Smappee, Voltaware, NET2GRID, Informetis, Joko Labs, Kimbal, Verdigris Technologies, Beijing Zhixiang Technology, Wasion Group, Jiangsu Linyang Energy, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Non-Intrusive Load Monitoring Device market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Non-Intrusive Load Monitoring Device Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Non-Intrusive Load Monitoring Device Market, Segmentation by Type:

Standalone Monitoring Terminal

Smart Meter Module-Based Device

Distribution Gateway-Integrated Device

Global Non-Intrusive Load Monitoring Device Market, Segmentation by Power Supply System:

Single-Phase

Three-Phase

Global Non-Intrusive Load Monitoring Device Market, Segmentation by Data Processing Method:

Edge Computing Type

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Cloud Computing Type

Edge-Cloud Collaborative Type

Global Non-Intrusive Load Monitoring Device Market, Segmentation by Maximum Monitoring Current:

?100 A

>100–400 A

>400 A

Global Non-Intrusive Load Monitoring Device Market, Segmentation by Application:

Residential

Commercial Buildings

Industrial Facilities

Public Facilities

Other

Companies Profiled:

Smappee

Voltaware

NET2GRID

Informetis

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Joko Labs

Kimbal

Verdigris Technologies

Beijing Zhixiang Technology

Wasion Group

Jiangsu Linyang Energy

CSG Smart Electrical Technology

Shanghai Qianju Intelligent Technology

Beijing Huizhi Boyi Technology

Key Questions Answered

1. How big is the global Non-Intrusive Load Monitoring Device market?
2. What is the demand of the global Non-Intrusive Load Monitoring Device market?
3. What is the year over year growth of the global Non-Intrusive Load Monitoring Device market?
4. What is the total value of the global Non-Intrusive Load Monitoring Device market?
5. Who are the Major Players in the global Non-Intrusive Load Monitoring Device market?
6. What are the growth factors driving the market demand?

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