

Livestock Monitoring Systems Market Forecasts to 2032 - Global Analysis By Offering (Hardware, Software, and Services), Livestock Type, Application and By Geography

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Abstracts

According to Statistics MRC, the Global Livestock Monitoring Systems Market is accounted for \$8.13 billion in 2025 and is expected to reach \$16.88 billion by 2032 growing at a CAGR of 11.0% during the forecast period. Livestock Monitoring Systems refer to advanced digital tools that continuously observe and assess the condition, movement, and performance of animals on farms. Using technologies such as smart sensors, GPS trackers, RFID tags, and software analytics, these systems convert real-time data into actionable insights. They assist producers in identifying health issues early, optimizing breeding and feeding practices, ensuring animal welfare, and minimizing operational risks.

According to the European Union, the EU market would experience increased global demand over the course of 2030, increasing exports from 4.35 million tonnes in 2017 to 4.7 million tonnes in 2030.

Market Dynamics:

Driver:

Growing prevalence of zoonotic diseases

Outbreaks such as avian influenza, foot-and-mouth disease, and brucellosis have heightened the need for early detection and continuous animal health surveillance. Farmers and livestock producers are increasingly relying on real-time monitoring tools

to track vital signs, behavior, and movement patterns. These systems help identify disease symptoms at an early stage, reducing mortality rates and economic losses. Governments and regulatory bodies are also promoting digital livestock health solutions to strengthen biosecurity frameworks. Advancements in sensors, IoT, and data analytics are enhancing the accuracy of disease monitoring. As awareness of animal-to-human disease transmission grows, demand for comprehensive livestock monitoring technologies continues to rise.

Restraint:

Limited technical awareness

Many producers lack adequate knowledge about the installation, operation, and benefits of advanced monitoring systems. Resistance to adopting digital tools is often linked to traditional farming practices and low digital literacy. In developing regions, insufficient training programs and advisory services further restrict adoption. Concerns about system complexity and data interpretation also discourage investment in these technologies. Although vendors are introducing user-friendly interfaces, awareness gaps persist across rural markets. This restraint slows down large-scale penetration despite the proven advantages of livestock monitoring solutions.

Opportunity:

Demand for sustainable & organic farming

Consumers are increasingly seeking ethically produced meat, milk, and dairy products with transparent animal welfare standards. Monitoring technologies enable farmers to track animal health, feeding efficiency, and stress levels more accurately. These insights support reduced antibiotic usage and improved herd management practices. Certification bodies and regulators are also encouraging digital traceability to validate organic and sustainable claims. Integration of monitoring systems with farm management platforms enhances resource efficiency and lowers environmental impact. As sustainability becomes a competitive differentiator, adoption of smart livestock solutions is expected to accelerate.

Threat:

Data privacy & cybersecurity

Data privacy and cybersecurity risks pose a growing threat to the livestock monitoring systems market. These solutions generate large volumes of sensitive farm and animal health data through connected devices and cloud platforms. Unauthorized access or data breaches can compromise farm operations and competitive information. Increasing reliance on wireless communication and IoT networks expands vulnerability to cyberattacks. Many farmers remain cautious about sharing data with third-party service providers. Regulatory frameworks around agricultural data protection are still evolving in several regions.

Covid-19 Impact:

The COVID-19 pandemic had a mixed impact on the livestock monitoring systems market. Supply chain disruptions and movement restrictions temporarily delayed hardware manufacturing and deployment. Labor shortages during lockdowns highlighted the importance of automated monitoring solutions on farms. Farmers increasingly turned to remote monitoring tools to manage herds with minimal physical interaction. The pandemic also emphasized the link between animal health and public health safety. Governments and industry stakeholders increased focus on disease surveillance and digital farming resilience. Post-pandemic recovery is now driving renewed investment in smart livestock technologies.

The hardware segment is expected to be the largest during the forecast period

The hardware segment is expected to account for the largest market share during the forecast period, due to continuous demand for accurate and durable monitoring equipment. Advancements in sensor miniaturization and battery efficiency are improving device performance and lifespan. Farmers prioritize hardware investments as they form the foundation of monitoring infrastructure. Increasing deployment across dairy, poultry, and swine farms is strengthening segment growth. As precision livestock farming expands, hardware solutions continue to command the largest market share.

The breeding & heat detection segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the breeding & heat detection segment is predicted to witness the highest growth rate. Accurate detection of estrus cycles is critical for improving reproductive efficiency and herd productivity. Monitoring systems equipped with motion sensors and behavioral analytics enhance breeding success rates. These technologies reduce reliance on manual observation and lower breeding-related labor costs. Rising

focus on genetic improvement and yield optimization is boosting adoption of heat detection solutions. Integration with AI-driven analytics enables predictive insights for optimal insemination timing.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, due to the region benefits from advanced farming infrastructure and high adoption of precision agriculture technologies. Strong presence of leading technology providers supports continuous innovation and deployment. Dairy and meat producers increasingly invest in digital monitoring to improve productivity and compliance. Government initiatives promoting animal health and traceability further support market expansion. High awareness of data-driven farm management strengthens adoption rates.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, owing to rapid growth in livestock populations and rising demand for animal protein. Countries such as China, India, and Australia are modernizing traditional farming practices through digital solutions. Increasing government support for smart agriculture is accelerating technology uptake. Growing awareness of animal health, productivity, and disease control is influencing adoption. Expansion of affordable monitoring devices is improving accessibility for small-scale farmers.

Key players in the market

Some of the key players in Livestock Monitoring Systems Market include DeLaval, Quantified Ag, GEA Group, CowManager, Afimilk, Moonsyst, BouMatic, HOKOVO, SCR Dairy, Connecterra, Lely, Fancom BV, Nedap NV, AgriWebb, and Dairymaster.

Key Developments:

In November 2025, GEA is an official partner of the European Union's 'Exquisheat' project (EU). The three-year EU-funded project aims to accelerate the decarbonization of the European food and beverage industry by developing standardized heat pump solutions. Over a period of three years, eight other partners will join GEA in analyzing industrial processes and developing solutions for key applications in the food industry, such as pasteurization, evaporation, and cooling.

In September 2025, John Deere and DeLaval announce the Milk Sustainability Center expansion to dairy farmers in more countries and welcome dsm-firmenich as the next Strategic Partner. Designed to enhance the efficiency and sustainability of dairy farming operations, the Milk Sustainability Center offers a unique solution by integrating data on crop, animal and feeding performance into one unified platform.

Offerings Covered:

Hardware

Software

Services

Livestock Types Covered:

Cattle

Poultry

Swine

Equine

Applications Covered:

Milk Harvesting Management

Sorting & Weighing Management

Breeding & Heat Detection

Behavioral Monitoring & Stress Detection

Feeding Management

Health Monitoring & Disease Detection

Other Applications

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments

- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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