

Smart Elderly Fall Detection Rug Industry Report: Competitive Landscape and Future Prospects

The Business Research Company's Smart Elderly Fall Detection Rug Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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/EINPresswire.com/ -- What Is The

Projected Market Size & Growth Rate

Of The Smart Elderly Fall Detection Rug Market?

The market for [smart rugs](#) for elderly fall detection has seen a swift expansion recently. The size of this market is projected to surge from \$1.48 billion in 2024 to \$1.72 billion in 2025, indicating a compound annual growth rate (CAGR) of 16.1%. The historical growth of this market is primarily

due to the increase in the elderly population, heightened recognition of fall hazards by both families and care-providers, a growing trend towards aging in place, a rise in health care spending for elderly care, the proliferation of senior and assisted living facilities, along with a growing emphasis on fall prevention from insurance and reimbursement perspectives.

The market size of the intelligent fall detection rug for the elderly is set for speedy expansion in the coming years, with a projection to reach \$3.10 billion in 2029, growing at a compound annual growth rate (CAGR) of 15.8%. This

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predicted growth during the forecast period is due to factors such as an increase in fall-related injuries and associated costs, growing demand for safety solutions at home, a rise in the caregiver workforce scarcity and burnout, an upsurge in chronic conditions that hamper mobility, expansion of home modifications to improve accessibility, and an increased policy emphasis on patient safety and quality measurements. There are key trends likely to emerge during this forecast period including technological progress in pressure-sensing textiles, advancements in in-device pattern recognition for detecting falls, innovative strides in privacy-

maintaining vision systems, developments in the flawless integration with smart home ecosystems, research and progress towards energy-efficient wireless communication models, and advancements in technology related to cloud-based caregiver dashboards.

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What Is The Crucial Factor Driving The Global Smart Elderly Fall Detection Rug Market?

The expansion of the smart elderly fall detection rug market is anticipated due to the increasing need for real-time monitoring devices. Real-time monitoring systems, technologies that gather, communicate and analyze data continuously to offer immediate alerts or feedback, allowing quick reactions to urgent situations, are what this refers to. An increased incidence of chronic health problems in the older population is causing a surge in the uptake of real-time monitoring devices, as there is a growing requirement for constant, data-informed monitoring to facilitate quick intervention and safety. Smart elderly fall detection rugs contribute to real-time tracking by incorporating sensors to instantly identify falls and send alerts for immediate caregiver intervention. For example, the Department of Health and Human Services, a government agency in charge of federal healthcare programs in the US, reported in August 2025 that nearly one million Medicare beneficiaries in the US utilized remote patient monitoring services in 2024, a rise of 27% from 2023. Thus, the increasing requirement for real-time monitoring technologies fuels the growth in the Smart Elderly Fall Detection Rug market.

Who Are The Emerging Players In The Smart Elderly Fall Detection Rug Market?

Major players in the Smart Elderly Fall Detection Rug Global Market Report 2025 include:

- Medline Industries LP
- Drive DeVilbiss Healthcare Inc.
- AliMed Inc.
- Vayyar Imaging Ltd.
- Dynarex Corporation
- Tekscan Inc.
- MekoPrint Ltd.
- Skil-Care Corporation
- Proactive Medical Products Inc.
- Alerta Medical Ltd.

What Are The Top Trends In The Smart Elderly Fall Detection Rug Industry?

Key players in the smart elderly fall detection rug market are prioritizing the integration of advancements in technology, for instance, ambient sensing powered by Artificial Intelligence (AI). This is with the aim of boosting the precision of live monitoring and the effectiveness of fall prevention. Ambient sensing powered by AI employs radar or environmental sensors combined with machine learning algorithms. These interpret motion patterns, essential signs, and cues from the environment without any physical contact. This enables the execution of abilities such as live motion analysis, early detection of abnormalities, and forecast notifications. For instance,

in March 2025, a deal was struck between FallCall Solutions, a company in the US dealing in digital health technology and specializing in connected safety systems, and RANiX, a firm based in South Korea in the semiconductor and sensor technology sector. The result was the introduction of a radar system activated by AI aimed at preventing bed falls in hospitals. It achieves this by tracking patient movement, heartbeat, and respiratory rates, and has a compact radar fitted at the foot of the bed. It also includes a continuous link to a platform for cloud-based analytics and an automated alert system for caregivers. This system ensures swifter responses for fall prevention, solidifies patient safety by continuous monitoring, and enhances healthcare efficiency by minimizing manual oversight.

What Segments Are Covered In The Smart Elderly Fall Detection Rug Market Report?

The smart elderly fall detection rug market covered in this report is segmented –

- 1) By Product Type: Pressure Sensor Rugs, Infrared Sensor Rugs, Camera-Based Rugs, Other Product Types
- 2) By Technology: Wearable Integrated, Non-Wearable, Artificial Intelligence (AI)-Based, Internet Of Things (IoT)-Enabled, Other Technologies
- 3) By Distribution Channel: Online Stores, Specialty Stores, Supermarkets Or Hypermarkets, Other Distribution Channels
- 4) By Application: Home Care, Hospitals, Assisted Living Facilities, Nursing Homes, Other Applications

Subsegments:

- 1) By Pressure Sensor Rugs: Capacitive Pressure Sensor Rugs, Piezoelectric Pressure Sensor Rugs, Resistive Pressure Sensor Rugs, Fiber Optic Pressure Sensor Rugs
- 2) By Infrared Sensor Rugs: Passive Infrared Sensor Rugs, Active Infrared Sensor Rugs, Dual Infrared Sensor Rugs, Multi-Zone Infrared Sensor Rugs
- 3) By Camera-Based Rugs: Two-Dimensional Camera Rugs, Three-Dimensional Depth Camera Rugs, Thermal Imaging Camera Rugs, Wide-Angle Camera Rugs
- 4) By Other Product Types: Ultrasonic Sensor Rugs, Radar Sensor Rugs, Smart Textile Rugs, Hybrid Sensor Rugs

View the full smart elderly fall detection rug market report:

<https://www.thebusinessresearchcompany.com/report/smart-elderly-fall-detection-rug-global-market-report>

Which Region Is Projected To Hold The Largest Market Share In The Global Smart Elderly Fall Detection Rug Market?

In 2024, North America held the leading position in the global market for smart elderly fall detection rug. However, the Asia-Pacific region is anticipated to witness the quickest growth in the coming period. The market report encompasses regions including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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