

Immersive Reality For Defense Global Market Report 2025 Underlines Rapid Growth And Dynamic Drivers

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Immersive Reality For Defense Global Market Report 2025 - Market Size, Trends, And Global Forecast 2025-2034

Diving into the historic data, the size of the immersive reality for defense market has experienced a remarkable growth. Impressively, it will grow from \$2.33 billion in 2024 to \$2.71

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It will grow to \$4.91 billion in 2029 at a compound annual growth rate (CAGR) of 16.0%.”

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billion in 2025, exhibiting a compound annual growth rate CAGR of 16.2%. This growth can be attributed to the increased application of immersive technologies in training and simulation, situational awareness enhancement, remote operations and maintenance, battlefield planning and strategy, and medical training and rehabilitation.

Is the Immersive Reality For Defense Market Set to Witness Substantial Growth?

Looking ahead, the immersive reality for defense market is poised for rapid growth. Its size is predicted to reach \$4.91 billion in 2029, marking significant progress with a compound annual growth rate CAGR of 16.0%. The growth in the forecast period is driven by advancements in AI and machine learning, increasing defense budgets for AR/VR training, rising demand for remote warfare solutions, integration with IoT and wearable technology, and enhanced cybersecurity for virtual environments. Noteworthy trends during this period include AI-driven virtual simulations, AI-powered battlefield visualization, haptic feedback, tactile interfaces, cloud-based immersive

training platforms, and 5g-enabled real-time collaboration.

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What Drives The Immersive Reality For Defense Market Growth?

Delving deeper into the key market drivers, synthetic training environments are expected to propel the growth of the immersive reality for the defense market. Synthetic training environments, computer-generated simulations emulating real-world scenarios for training purposes, are on the rise due to advancements in immersive technologies. Such advancements enhance the realism, cost-effectiveness, and scalability of military training while reducing the need for live exercises. Immersive reality in synthetic training environments amplifies defense training by simulating realistic combat scenarios, improving decision-making, and reducing operational risks. A compelling example of this growth can be seen in the increase of unmanned aerial systems procurement spending, expected to rise from nearly \$12.1 billion annually in 2023 to \$16.4 billion in 2032, marking an increase of \$4.3 billion per year. This increase totals to \$162.2 billion growth over the next decade, precipitated by the growth of synthetic training environments within the defense sector.

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Who Are The Key Players In The Immersive Reality For Defense Market?

Notably, a group of key industry players are driving the growth of the immersive reality for defense market. EON Reality Inc., Lockheed Martin Corporation, Honeywell International Inc., Thales Group, HCL Technologies Limited, CAE Inc., AVEVA Group PLC, Barco NV, Vertex Solutions LLC, Magic Leap Inc., Varjo Technologies Oy, Bohemia Interactive Simulations s.r.o., Vection Technologies Ltd, Indra Sistemas S.A., HTX Labs Inc., Red Six Aerospace Inc., VRgineers Inc., Blippar Ltd., SimX Inc., Imagine 4D Inc., VRMADA LLC stand as significant contributors.

What Are The Emerging Trends In The Immersive Reality For Defense Market?

An emerging trend in the immersive reality for defense sector involves major companies focusing on technological advancements. These advancements, such as mixed reality cockpits, are designed to enhance pilot training, improve situational awareness, optimize mission planning, and enable realistic combat simulations. For instance, in January 2025, Vertex Solutions LLC delivered its first upgraded reconfigurable enhanced immersive training device, a milestone marking the integration of mixed reality cockpits into the Air Force's Fighter Bomber Fundamentals curriculum.

How Is The Immersive Reality For Defense Market Segmented?

By Component:

- 1 Hardware
- 2 Software
- 3 Services

By Technology:

- 1 Virtual Reality VR
- 2 Augmented Reality AR
- 3 Mixed Reality MR

By Application:

- 1 Training And Simulation
- 2 Medical Training And Healthcare Support
- 3 Maintenance And Repair
- 4 Combat Operations

Key Subsegments include:

- 1 Hardware: Head-Mounted Displays, Simulators, Sensors, Cameras, Wearables
- 2 Software: Simulation Software, Immersive Applications, Three-Dimensional Visualization Tools, Artificial Intelligence/Machine Learning Integration, Data Integration Software, Collaboration Tools
- 3 Service: Training And Simulation Services, System Integration Services, Maintenance And Support Services, Consulting And Customization, Content Creation, Cybersecurity Services

What Is The Regional Analysis Of Immersive Reality For Defense Market?

From a regional perspective, North America held the largest share in the immersive reality for defense market in 2024. However, the market report provides comprehensive coverage across Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, Africa.

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Americas +1 3156230293

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Oliver Guirdham

The Business Research Company

+44 20 7193 0708

info@tbrc.info

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