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(57) Abstract :

The present invention discloses a Virtual Reality (VR) system (100) for advanced military training simulations. The system comprises an immersive headset (110), motion tracking suit (120), haptic feedback unit (130), AI simulation engine (140), biofeedback sensors (150), and cloud analytics platform (160). Together, these components replicate realistic combat environments, monitor trainee performance, and dynamically adapt training scenarios. The invention enhances readiness by integrating immersive visualization, haptic realism, AI-driven adaptability, and biofeedback monitoring, providing a safe, cost-effective, and data-driven solution for preparing military personnel for diverse operational challenges.

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