

Lightspace

A close-up, dark-toned image of an augmented reality (AR) headset, likely a Microsoft HoloLens or similar, showing the front-facing lenses and the top of the device. The image is used as a background for the entire page.

LIGHTSPACE TECHNOLOGIES

Revolutionizing Soldier Vision with AI-Driven Augmented Reality

MISSION

Empowering defense forces with next-generation augmented reality (AR) systems that merge human vision and artificial intelligence for unmatched battlefield awareness, precision, and safety.

WHO WE ARE

Lightspace is a deep-tech company from Riga, Latvia, pioneering **multi-focal and volumetric AR displays** that solve the **critical eye accommodation problem** - a breakthrough enabling true 3D visualization and long-term comfort in mission-critical environments.

- Founded in **2014**
- **60+ patent applications, 20 granted US patents**
- **70% of team in R&D** across optics, AI, and spatial computing

TECHNOLOGY ADVANTAGE

Unlike standard single-focus AR, Lightspace's **multi-focal near-eye display** delivers:

- **True 3D depth perception and precise close-range visualization**
- **Improved spatial cognition**
- **No eye strain, No visual fatigue** even during extended missions

Customizable Platform

- AR headset **architecture adaptable** to specific mission requirements
- Optics, sensors and mechanical design **can be customized** for partner needs

DEFENSE APPLICATIONS

- **Armored Vehicle Crews:** 360° visual representation, threat detection, and vehicle health monitoring
- **Drone Piloting:** High-contrast AR control for ISR and FPV drones, day or night without loss of touch with ambient surroundings
- **Mission Command/Control:** Single-operator control of coordinated drone swarms/weapons systems/ BMS interface

LIGHTSPACE BRINGS

- Proven **dual-use technology** for defense, industry, and healthcare
- **Customizable AR hardware** for diverse mission profiles
- **Scalable AI-AR platform** ready for integration into existing defense/ BMS systems

CONTACT US

Contact: info3d@lightspace3d.com

Website: www.lightspace3d.com