HyperTunnel

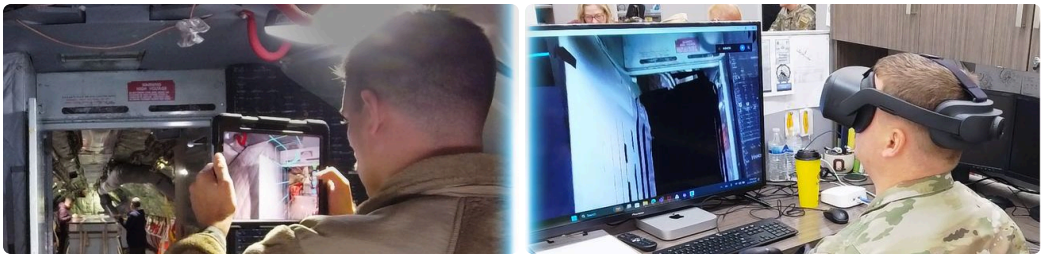
by FactualVR, Inc.

Capability Statement

Mixed reality remote expertise for aircraft maintenance and sustainment

COMPANY OVERVIEW

HyperTunnel connects frontline technicians with remote subject matter experts inside a 3D digital twin of the worksite. Technicians scan the equipment with an iPad or iPhone; experts join from anywhere, see the site as if they were there, and guide the work with spatial annotations, photos and documents, live or asynchronously. Used for aircraft maintenance and sustainment, inspection, troubleshooting and training in defense, aerospace and energy.



On site, an Airman shares the aircraft from an iPad; the remote expert joins in a headset.

CORE COMPETENCIES

- **Live remote expert support (HyperCall).** Field technicians and remote subject matter experts meet inside a 3D digital twin of the worksite and solve the problem together.
- **3D capture with an iPad or iPhone.** Maintainers scan aircraft, equipment and work areas with the LiDAR in an iPad or iPhone. No special hardware.
- **Spatial messages and knowledge capture (HyperNote).** Recorded walk-throughs, arrows, photos and documents placed on the exact component; works offline and syncs later.
- **Any device.** Experts join on Apple Vision Pro, Meta Quest, HTC VIVE Focus Vision or iPad; field teams on iPad and iPhone.

PAST PERFORMANCE

121st Air Refueling Wing, Ohio Air National Guard
`W50S8P26PA004 · Sep 2026 – Aug 2027, options to Aug 2028`
HyperTunnel services supporting aircraft maintenance: 3D scans of aircraft and work areas; live and asynchronous collaboration between maintainers and remote experts.

U.S. Air Force Rapid Sustainment Office (AFLCMC/RO)
`FA868424CB007 · SBIR Phase II · 2024, completed`
Mixed reality collaboration for aircraft maintenance: maintainers scan with iPads; experts join a shared digital twin to guide troubleshooting and repairs.

U.S. Department of Energy
`DE-SC0018732 · SBIR Phase I and II · 2018 – 2022, completed`
Mixed and virtual reality remote collaboration for training and supporting frontline workers in the energy sector.

DIFFERENTIATORS

- A true 3D digital twin of the real site, not a video feed: the expert walks through it and points at the exact part.
- Built with U.S. Air Force maintainers, now on contract with the Air National Guard.
- Live or asynchronous, including offline use where connectivity is limited.
- Commercial software, ready to deploy; cloud or on-premise.

COMPANY DATA

UEI
KFHKF77CNZN7

CAGE
7SLV2

NAICS

513210 Software Publishers (primary)
541511 Custom Computer Programming Services
541512 Computer Systems Design Services
541519 Other Computer Related Services
518210 Computing Infrastructure Providers, Data Processing, Web Hosting, and Related Services
423430 Computer and Computer Peripheral Equipment and Software Merchant Wholesalers
611420 Computer Training

BUSINESS STATUS

Small business
Small Disadvantaged Business (self-certified)
Minority-owned business

WAYS TO BUY

Tradewinds Solutions Marketplace (CDAO), SBIR Aisle: Awardable for SBIR Phase III
Commercial purchase order

RECOGNITION

Winner, Air Force Global Strike Command Showcase 2025
CRADA, Naval Air Warfare Center Aircraft Division
Winner, NIST Virtual Reality Heads-Up Competition

CONTACT

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