TECH OFFER

Lightweight AI-AR Glasses for Productivity and Immersive Visual Experiences

KEY INFORMATION

TECHNOLOGY CATEGORY:
Electronics - Display
Infocomm - Augmented Reality, Virtual Reality & Computer-Simulated Environments
Infocomm - Interactive Digital Media & Multimedia
Infocomm - Enterprise & Productivity
Infocomm - Wearable Technology

TECHNOLOGY READINESS LEVEL (TRL): TRL9
COUNTRY: SINGAPORE
ID NUMBER: TO175365

OVERVIEW

This offer presents two complementary augmented reality (AR) smart glasses solutions that harness voice-activated AI and ergonomic wearability to support hands-free interaction in real-world environments. These solutions differ in display capability and interaction modes, enabling fit-for-purpose deployment across both functional and experiential domains.

The Enterprise AR solution is tailored for enterprise productivity, multilingual communication, and contextual information retrieval, making it suitable for operational and knowledge-intensive environments. The Entertainment AR solution focuses on high-fidelity visual experiences, addressing needs in media-rich, collaborative, or training settings. Both solutions offer voice-based AI interaction, privacy protection, and adaptable hardware, and can be integrated into existing digital ecosystems through

configurable APIs or platform connectors.

The technology developer is seeking to engage with partners across sectors such as healthcare, logistics, education, tourism, and retail. **Potential collaborations include piloting the AR solutions in real-world use cases, co-developing tailored applications or AI interfaces, and exploring regional go-to-market opportunities. Opportunities also exist for research partnerships to enhance device functionality, user experience, and integration with industry-specific systems.**

TECHNOLOGY FEATURES & SPECIFICATIONS

The AR glasses are designed to support hands-free, real-time access to digital content in dynamic settings. With a lightweight and ergonomic form factor, they are suitable for prolonged daily use across both indoor and outdoor environments.

Users interact with the system through built-in voice-enabled AI, allowing natural language commands for tasks such as translation, navigation, information retrieval, and media playback. The glasses can be configured to integrate with enterprise platforms, enabling seamless access to calendars, dashboards, and document repositories.

Visual information is displayed directly within the user's field of view through high-resolution optical displays. Privacy is ensured with user-only visibility and encrypted data handling. Adjustable lens frames and optional shading enhance comfort and accessibility for a wide range of users.

POTENTIAL APPLICATIONS

These AR glasses can be deployed across diverse sectors where real-time access to information, immersive content, and hands-free communication are valued.

- **Healthcare:** Visualise medical records, SOPs, or training materials through voice prompts; support for patient communication via live translation and privacy-protected display.
- **Field Operations and Logistics:** Access dashboards, checklists, or navigation guidance through voice-controlled AR overlays; streamline hands-free workflows and remote support.
- **Retail and Customer Service:** Equip frontline staff with real-time product knowledge, automated translation tools, or digital sales prompts to improve customer interaction.
- **Education and Training:** Enable learners to receive multimedia instructions, follow guided demonstrations, or engage in scenario-based simulations using AR content.
- **Tourism and Navigation:** Offer real-time interpretation, site information, or local recommendations overlaid in the user's field of view for enhanced travel experiences.
- **Enterprise Productivity:** Use as a wearable interface for querying internal documents or dashboards, teleprompting during presentations, or integrating with calendars and data systems.

UNIQUE VALUE PROPOSITION

- **Complementary Deployment Options:** Two distinct AR solutions tailored to productivity-driven and media-intensive use cases
- **Voice-First Interface:** Natural language interaction across both solutions, reducing reliance on handheld or touchscreen inputs
- **Secure, Private Use:** Display output designed for individual view, with secure transmission protocols for sensitive content

- **Open Integration:** Configurable to enterprise data platforms and document management systems via APIs or SDKs
- **All-Day Comfort:** Sub-65g weight for prolonged wear in active environments