

# FRAIM<sup>®</sup>

Concept 1.0

FIRST-LIGHT  
USA



**FRAIM** is an innovative, lightweight, ruggedized wearable that delivers critical technology capabilities when and where they're needed the most while being 100% hands-free by utilizing *Clench-Switch* actuation technology. Developed for Special Operations in order to advance austere telemedicine, **FRAIM** can be worn and operated with or without a helmet, eye protection, and other legacy systems.



- Minimalistic, Head-Borne Device
- Can Be Worn With or Without a Combat Helmet
- First-Person Perspective Remote 1080p Video
- A Rugged Polymer (non-glass) Near-Eye Display
- On-Demand, Line-of-Sight, Bright White Illumination (other, tailored wavelengths offered)
- Two-Way Audio Communication + Hearing Protection
- 100% Hands-Free Operation Without Voice Recognition and Requiring ZERO Head/Hand/Extremity Movement

**FRAIM** features First-Light USA's patent-pending *Clench Switch* technology that senses the clenching of the jaw (masseter muscle) and through signal processing translates a specific pattern (double-clench, clench-and-hold, etc.) into distinct system commands.

- Activating and Adjusting the Brightness of Line-of-Sight Illumination
- Entering Camera Mode (with the view finder appearing in the near-eye display), Then Clenching To Zoom, and Capturing Photos & Video
- Activating and Deactivating Radio Push-To-Talk (PTT)
- Interacting in the Augmented or Virtual Environment
- Silent, Tactically Superior Hands-Free Systems Control Compared to Voice Activation — functions regardless of ambient noise levels.



*Clench-Switch* is currently being developed under a USAF contract as a solution for the Next Generation Fixed Wing Helmet so pilots and Aircrew can activate cockpit lighting without the use of their hands and without the need to actuate buttons with their lip or tongue, as is currently required. *Clench-Switch* has evolved into a highly functional method for activating head-worn technology in challenging environments.