

Company Name : Social Hardware International

Tagline-

Building immersive, AR-powered telerobotic systems for hazardous operations.

Overview-

Founded in 2017, Social Hardware is a Bengaluru-based startup dedicated to enhancing and protecting lives through innovative technology. Initially focused on assistive devices for underserved communities, the company gained national attention in 2021 with its collaboration with Cadbury Celebrations for the #MyFirstRakhi campaign, providing prostheses that enabled children with upper limb differences to fully engage in the Raksha Bandhan tradition. The prostheses, which offered a sense of touch, were provided at no cost, highlighting Social Hardware's commitment to inclusivity. The campaign garnered widespread attention, reaching 2.7 crore views on YouTube, and was praised for promoting inclusivity in cultural practices, marking a significant step in making assistive technology more accessible and integrated into cultural traditions in India. Building on its expertise in bionics and prosthetics, the company expanded into field robotics, developing the Eclipse Remote Systems—teleoperated platforms designed for high-risk tasks like bomb disposal and search and rescue. Featuring immersive augmented reality (AR) controls, these systems ensure seamless human-machine interaction, allowing operators to perform hazardous tasks with precision and safety from a distance. Social Hardware is actively seeking industry partners to co-develop new models in the Eclipse Series—each crafted to address specialized needs in high-risk sectors. Organizations interested in exploring how Social Hardware's Eclipse Series can transform their approach to safety and efficiency are invited to schedule a demo or discuss potential collaborations.

Industry- Robotics Engineering

Specialties

3D Printing, Robotics, Engineering, Wearable Tech, Additive Manufacturing, Autodesk Fusion 360, CAD, CAM, Design, Hardware, Research & Development, defence, IOT, and ML

Product-

Eclipse is a next-generation XR-controlled telerobotics system, designed for hazardous environments. It allows operators to perform complex tasks remotely, ensuring safety and precision during high-risk missions.

Key Features:

1. **Immersive XR Control:** Experience real-time control of the Eclipse robots through an extended reality interface, allowing for high precision in delicate operations.

2. **Modular Tool Attachments:** Our robots come with adaptable tools for various applications, including disarming explosives and cutting debris.
3. **Mesh Network Communication:** Advanced mesh networking enables operation without a direct line of sight, ensuring reliable communication in confined spaces.

Eclipse aims to protect workers in hazardous environments. By reducing human exposure, we enhance safety protocols and enable quicker responses to potential threats.

Technical Specifications

- **Data Streaming:** AES-256 encryption of all sensor data and robot control commands.
- **Connectivity:** Offers a variety of I/O options, including USB 3.0, HDMI, Gigabit Ethernet, and M.2 PCIe.
- **Battery Type:** LiFePO4
- **Capacity:** 26.5V, 24Ah
- **Run Time:** 2 hours of continuous operation
- **Charge Time:** 3 hours for full charge
- **HMD:** Oculus Quest 3
- **Field of View:** 110 degrees
- **Sensing Type:** IR-based sensing technology

Customer Service

- Customizable upgrades, tool attachments, and sensor modules.
- Maintenance contracts and spare parts available.
- Comprehensive training offered for operation and maintenance.
- RaaS model available with 6-month minimum commitment.

Contact

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