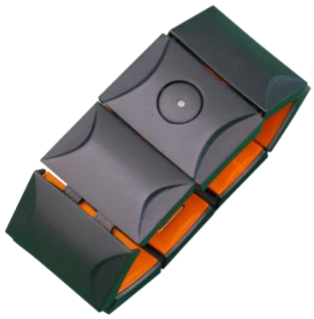
**Group:** Open Group

**Sub-theme:** I&T for Community (Community Wellness)

Project Code: O-001316

# **Phantom Vision** (内容只提供英文版)



**User Pain Points**

There are 320500 people have motor disability in Hong Kong. The current wearable control systems have three major problems: 1.low functionality with only few prosthetics movements, 2.poor user experience which is non-customizable and low power inefficient, 3. cost inefficient that advanced prosthetics could cost up to $120,000 USD.

**Solution Benefits**

Our solution is providing AI-based, non-invasive, wearable control systems that enable the natural motion and function of artificial bionic limbs to profoundly enhance the lives of millions of amputees around the world. It is high functionality with 20+ hand gestures detected by
3 distinct bio-sensors and AI platform, cutting cost of 70% comparing to other commercially available products in the market. It could save amputees in Hong Kong much cost and with user better experience.

**Technologies Applied**

Our solution is non-invasive, multi sensor and smart wearable tech empowered by AI. Our whole control system has been built and ready to commercialised. Such innovation is the first one in the APAC region.

**Target Users**

User Profile / Persona:

Phantom Vision 的典型用户是年龄在 18 至 65 岁之间的截肢者，主要包括退伍军人、工伤劳工和交通事故受害者。他们渴望通过高科技假肢恢复正常生活，提升日常活动的独立性和效率。用户往往注重产品的舒适性、准确性和经济性。

User Scenario and Goals:

一名工伤截肢者在家中使用 Phantom Vision 的智能可穿戴控制系统。用户将设备佩戴在残肢上，通过简单校准后，用意图自然地控制仿生假肢执行日常任务，如抓取物品、操作工具等。
目标：用户希望实现无障碍、高精度的假肢控制，以恢复工作能力和提升生活质量。