

Healthcare Device Innovation Hub (HDIH) Facts at a Glance

Mission of HDIH: Reinforcing HKSTP value-added services to start-ups

- The Healthcare Device Innovation Hub (HDIH) is the first theme-based hub with a healthcare device focus in Hong Kong, aiming to accelerate healthcare and biomedical industry development to promote healthy ageing.
- HDIH provides a one-stop service in wellness and healthcare device innovation for start-ups and SMEs at Hong Kong Science Park, ranging from shared facilities, highly sophisticated prototype testing equipment and software, to talent recruitment.
- HDIH is especially suitable for young and small companies at different stages of healthcare device development as it offers them R&D spaces that can easily be expanded or downsized depending on their research needs.
- Being a hub for healthcare device innovation, HDIH fosters collaboration in cross-disciplines including Information and Communications Technology, Biomedical Technology and Electronics, and accelerates healthcare device product development, from prototype testing to clinical evaluation, in Hong Kong.

Basic facts about HDIH

Location: Unit 601, Core Building 1 (1E), Hong Kong Science Park

Area: 8,900 sq.ft.

Facilities: 22 offices, ranging from 100-150 sq.ft

24 dedicated desks/ workstations

An 800 sq. ft. product prototype testing room, equipped with 3D drawing and simulation software, 3D printers and testing instruments

Case Studies

Persona Surgical Modelling

Technology:

- Persona focuses on the development and application of 3D printing technology for different medical streams.
- It provides innovative and effective medical solutions, including 3D pre-operative modelling, surgical guides, custom implants and different custom wearable devices.

Applications:

- By printing 3D anatomical models in different colours and materials, doctors can conduct surgery demonstration sessions, and gain a better understanding of the surgical procedures that need to be performed on specific parts of an organ before they perform an operation.
- 3D surgical tools can be produced to help doctors conduct complicated surgeries in a more precise way.

- 3D implantable devices can be made to customize patient-specific implants to offer personalized medical treatments.

Marvoto Technology (Hong Kong) Limited

Technology:

- Marvoto Technology focuses on developing hand-held 3D ultrasound applications, in terms of smart algorithms and artificial intelligence. Compared with professional and complicated applications in hospitals, Marvoto Technology provides individuals with a much easier way to scan their bodies with ultrasound.
- Their technology helps patients in the city take precautionary actions at an earlier stage.

Applications:

- Their leading product is the world's first fetus camera, M1, which will be launched in April 2018. It is a specialised camera for pregnant mothers to take photos and record videos of their developing babies at home, helping mothers spot any potential health issues in their babies at an earlier stage.