Gerontechnology Lab Equipment
at Monash Malaysia

Age Simulation Suit
A wearable suit that simulates the various common bodily ailments that come with old age.

Touchscreen TV
Showcase an in-house developed application that highlights renowned actors, sportsman and singers in a Malaysian context. Aims to stimulate older adult’s memory.

Prototype Devices
A display of various prototype devices either being currently developed or are seeking investment.

Smartphone Home System
A gerontologically designed home system to control electronic devices, interfaced with an everyday smartphone and set-top boxes.

Ergonomic Forearm Supportive Walking Stick
Specially designed to provide additional support to the forearm.
Stand-up Recliner Chair

A sofa chair with motors that allow it to unfold and tilt to an upright position to assist users to their feet and when sitting back down again.

Four-way Ceiling Rail

The Lab can be effectively partitioned into four separate areas/stations with the use of four-way, ceiling-railed curtains.

Workstation

A dual monitor desktop setup for use by researchers.

Smartwatch

A computerized wristwatch with built-in heart rate sensor. It allows users to track their fitness and activity level with coaching advice to maintain a healthy lifestyle.

Digital Weight Scale and Height Rod

An electronic weight monitor with height rod that allows a quick BMI check.
Blood Pressure Monitor
Basic blood pressure monitor for blood pressure and heartbeat check at Health Station.

Health Tracking Band
Health tracking band that is able to track steps, distance walked, sleeping patterns, water consumed and nutritional intake.

Health Monitor
All in one health monitor that is used to measure body weight, body temperature, blood glucose, blood oxygen saturation, lung functions (spirometry) and heart functions (ECG).

Ophthalmoscope
For eye examination. It is use to detects and evaluate symptoms of various retinal diseases

Soft Service Robot (Ubbo Open Source Telepresence Robot)
A human-size tele-operated mobile robot platform which is integrated with soft robotic gripper to assist users such as care givers and older people.
Turtlebot 3 Research Robot Platform
A modular autonomous mobile robotic platform. It can also be integrated with soft gripper or controlled by brain-machine interface.

Brain machine interface (EMOTIV EPOC+ 14 Channel Mobile EEG)
A brain machine interface for controlling robot by brain, already integrated with a casual robotic arm made of hard materials and will be integrated with soft robotic arm.

Laevo Exoskeleton LV2.56-0220
The Laevo is a wearable chest and back support that adapts to every posture. The Laevo transfers force from the rest to the thighs.

EksoWorks General Configuration V-1.0-0295
This is an upper body exoskeleton that elevates and supports a worker’s arms to assist them with tasks ranging from chest height to overhead.