

[CASE STUDY]

Customer: Monash Health

Solution: Workstations on Wheels



Monash Medical Centre (ED)

Workstation on Wheels

Monash Medical Centre located in Clayton servicing over 1.3 million across Victoria.

The facility is a 640 bed teaching and research hospital of global standards providing wide-ranging specialist surgical, medical, allied health and mental health services to the community.

The hospital has a variety of medical and allied health services comprising of:

- Pharmacy
- Occupational Therapy
- Dietetics
- Physiotherapy
- Theatre
- Labour Wards
- Pathology
- Radiology
- Social Work
- Speech Therapy

Requirement

The Emergency Department's prime objective is to deliver quality medical care as efficiently as possible. Due to the unplanned nature of patient presentation at the Emergency Department (ED), the unit must deliver initial treatment for a broad range of medical conditions.

To assist with fulfilling the various functions in the Emergency Department, Monash Hospital has deployed Workstation on Wheels (WoWs) to be able to access data at the point of patient care.

Monash Hospital clinicians, administrators and IT executives identified the following requirements when requesting an upgrade on their existing Workstation on Wheels solution;

- Easy to push/pull the cart with minimal force.
- Ability to lock the wheels of the WoW's providing safe permanent placement in examination rooms.
- Adjustable height and leg space to allow users to sit down comfortably.
- Long-lasting battery to last the duration of a whole shift.
- Must be easily cleanable with cleaning agents that meet hospital hygiene standards.
- Capability to be customisable to deliver numerous activities to be conducted by nurses & clinicians.

Solution

The notion is that Workstation on Wheels would be situated at the point of care, thus enabling nurses and clinicians to document care as it is delivered.

The final solution decided by Monash Hospital was the provision of 15 of Advantech's AMiS 50 Workstation on Wheels.



The AMiS-50 solution provides the following capabilities...

Easy to push/pull

AMiS-50 is designed to move on all floor types, with large caster wheels (125mm) to increase versatility on different kinds of floors, comfort grip and rear handles for movements.

Flexible Integration

- Built-in multiple I/O ports (USB Port x 4; Ethernet x1) for easy integration with equipment and software.
- Devices: barcode reader, HD camera, card reader...
- Medical Equipment: patient monitoring...
- Software: HIS, PACS, CIS...

Motor-driven work surface

Ergonomic height adjustment with an electric motor, resulting in smooth, easy operation.

Long-lasting battery

The system uses a safe and stable, non-flammable lithium iron phosphate battery. The fast recharge meets the needs for clinical rounds by allowing a full recharge in 1.5 hours and continued use of 4-6 hours.

The AMiS Link application is Advantech's intelligent power management software, permitting IT staff to remotely view and manage battery power alarm, battery temperature, charge/discharge voltage and cycle times.

By having a long-lasting battery and power management software, the team at Monash can ensure the Workstation on Wheels will last throughout the shift and used to their maximum potential.



"Mobility is key in our environment, being able to have confidence in the products that assist us when we are on the move is extremely important.

The AMiS-50 addresses our requirements as it is neat without any cables in the way, large wheels making it easy to move around the ward and the overall design complements our staff when they are on the go."

-Justine Cunningham, Clinical Nurse Specialist, Monash Health

Customisation to individuals/hospitals with over 30 different attachments.

Offering a wide range of accessories allowing it to be customised to meet the facilities or individual needs ranging from baskets, holders, infusion equipment, storage boxes, trash cans and much more.

ABOUT ADVANTECH

Advantech is a leading provider of trusted, innovative products, services, and solutions. Advantech develops many digital healthcare devices designed for doctors, nurses, and caregivers, to enhance healthcare quality. Most recently, Advantech has developed a highly integrated computerised nursing workstation on wheels (WoW).

ABOUT ASCOM

Ascom Wireless Solutions is a leading provider of on-site wireless communications for key segments such as hospitals, aged care, independent living, manufacturing industries, secure establishments, retail and hotels. More than 75,000 systems are installed at major companies all over the world. The company offers a broad range of voice and professional messaging solutions, creating value for customers by supporting and optimising their Mission-Critical processes.