A ‘SMART’ Move for Healthcare Settings Everywhere

How can healthcare establishments be more efficient? The ‘SMART’ answer is by introducing technology of the very same name.

An acronym for Self-Monitoring, Analysis and Reporting Technology, SMART tech is becoming more prominent in certain settings – including hospitals. Built-in sensors, data processing and communication capabilities collaborate to create a SMART ecosystem that, if you’ll excuse the pun, can ‘outsmart’ traditional digital systems used within operating theatres and wider healthcare estate for several years.

“Digital devices such as touch screens, PACS displays, theatre control panels and medical video system are now common in many establishments, with systems such as uninterruptable power supplies incorporating computer-based digital processing as part of their normal functionality.” Richard explains.

“In traditional systems, these digital components exist as individual entities, sometimes with limited communication for interlocks or basic control. The SMART healthcare platform, and SMART-enabled devices, meanwhile, create a communication network that allows connected devices to share this data locally and with external platforms for analysis, reporting, data logging and maintenance.”

Medicontrol™ & Medipower™ intergration

What does that mean for healthcare settings that are keen to embrace the tech?

By sharing data from UPS and IPS systems with the intelligent control panel, power usage patterns, predicted load and energy log consumption data can be created. With SMART, this data can then be shared with a central BMS system to boost the performance of specific tasks, including issuing scheduled maintenance requests based on actual ‘run time’.

Improving efficiency, the tech allows for the design, specification, delivery and operation of higher quality healthcare settings, with devices and systems within the operating theatre becoming part of a wider network of data sources.

A Range Designed to Support and Complement the Modern Hospital

Here at Brandon Medical, we’re proud to offer a range of products specifically designed to support the integration and delivery of Smart Healthcare in the modern hospital.

These include theatre control panels (which interface to site-wide BMS systems); operating theatre lighting with remote control and remote diagnostic support; self-reporting battery backup UPS, and IPS systems.

We also offer ultra-clean ventilation packages with particulate monitoring and BMS integration, too, as well as digital video capture, and distribution and recording solutions that interface to patient records platforms. Multi movement pendant systems with network and digital device connectivity and PACS computer display terminals complete the list of SMART tech – and if you have a question about how it will improve your healthcare setting, in the same way it has revolutionised many an establishment to date, do not hesitate to get in touch.

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Symposia®

CoPax

Brandon MEDICAL
BRILLIANT BY DESIGN

A complete range of clinical workstations and user display screens for integration within the OR. The CoPAX product portfolio includes PACS, tablets, monitors, point of care integrated computers, medical workstations and medical display solutions.

THE QUEEN’S AWARDS FOR ENTREPRISE: INNOVATION
THE QUEEN’S AWARDS FOR ENTREPRISE: INTERNATIONAL TRADE
THE QUEEN’S AWARDS FOR ENTREPRISE: INNOVATION

Symposia® PACS

Clinical workstations - Picture Archiving and Communication System

PACS stands for Picture Archiving and Communication System and it is used to store and digitally transmit electronic images and medical reports. PACS workstations consist of a display screen, computer and peripherals, such as a keyboard and touchpad.

The Brandon Medical PACS workstations are kiosk style computers and displays that are used in operating rooms to access patient records and diagnostic images. The Brandon Medical PACS Workstation is a single screen, DICOM review grade clinical workstation. The workstation is designed to be highly reliable and suit the requirements of the clinical environment, specifically Group 1 and Group 2 locations.

gPACS	
gPAC43L-PC0	Glass Facia, PACS 43” Landscape, Dicom Preset Screens, with Single PC
gPAC43L-P50	Glass Facia, PACS 43” Landscape, Dicom Preset Screens, with Single i5 PC
gPAC43L-P5S	Glass Facia, PACS 43” Landscape, Dicom Preset Screens, i5 PC & Video Switch
gPAC55L-PC0	Glass Facia, PACS 55”Landscape, Dicom Preset Screens, with Single PC
gPAC55L-P50	Glass Facia, PACS 55” Landscape, Dicom Preset Screens, with Single i5 PC
gPAC55L-P5S	Glass Facia, PACS 55” Landscape, Dicom Preset Screens, i5 PC & Video Switch
iPACS	
iPAC27L-PC0	iTCP Style, PACS 27” Landscape, Dicom Preset Screens, with Single PC
iPAC32L-PC0	iTCP Style, PACS 32” Landscape, Dicom Preset Screens, with Single PC
hTCP	
hTCPPF22T27LPC0	Hybrid, Control Panel, Portrait, Front Access, 22” Screen, Time server integrated clocks. 27” PACS Station
hTCPPF22T27LPCi	Hybrid, Control Panel, Portrait, Front Access, 22” Screen, Time server integrated clocks. 27” PACS Station & i2i Brandon light controls
hTCPPF22T32LPC0	Hybrid, Control Panel, Portrait, Front Access, 22” Screen, Time server integrated clocks. 32” PACS Station
hTCPPF22T32LPCi	Hybrid, Control Panel, Portrait, Front Access, 22” Screen, Time server integrated clocks. 32” PACS Station & i2i Brandon light controls

Product Features

Symposia AV integration

Integration with Symposia means that any AV source can be displayed on the large PACS screen (this requires the video switch option). There may be training or collaboration scenarios where it is useful to display the camera feed from the operating lamp or a laparoscope on the large PACS screen.

Symposia integration can also be used to convert the PACS workstation into an AV source (requires extra hardware to integrate with the Entoli system). This can be useful when a surgeon would like to see PACS images presented on display screen positioned directly in their field of view above the patient.

Ease of installation

The Brandon Medical PACS Workstations have been designed to make installation as simple as possible and to suit typical project requirements. The back box and hardware can be delivered in advance to suit project schedules for electrical wiring. A protective cover is temporarily installed. The display screen can be then installed at a later date, when any nearby works are finished and the PACS Workstation is ready for commissioning.

Product family

In addition to looking like a quality, modern product, the PACS systems share the same finish as iTCP. This allows Brandon to offer a matched suite of products.

Image quality

The PACS display screen supports high resolution images with unhindered readability, even when viewed in high ambient light. The anti-reflective, high haze display minimises reflections from other light sources.

Reliability

The Brandon Medical PACS Workstation is constructed from high quality components, giving the user confidence of reliable operation. The industrial grade PC is an embedded system powered by high quality processors. The PC is fanless to maximise reliability. The display screen is designed for 24/7 continuous viewing applications. Both the display and PC have been selected on the basis of long-term supply availability. This allows Brandon to provide assurance that faulty components can be replaced for an extended time period. The keyboards are highly robust and will easily stand up to everyday knocks and scrapes.

Symposia® CoPax

CoPax Product portfolio

The CoPAX product portfolio includes a range of HD and 4K medical grade surgical field of view monitors from 24” to 32” and a range of dedicated wall mount monitors for integration within the operating room with sizes from 42” to 70”, available in both HD and 4K formats.

Point-of-Care Terminals

All-in-One computers with battery and camera modules for diverse healthcare applications, featuring 8th generation Intel® Core™ i5/i7 processor
15.6” full HD display with multi-touch P-CAP control Multiple I/O, including USB 3.2 Gen 2 (Type A), USB 3.2 Gen 2 (Type C) with display function, and HDMI; PCIe x4, mini PCIe, M.2 expansion slots for integrating add-on modules
Fan less design with IP43-rated protection for superior hygiene and infection control

Healthcare Information Terminal tablets

from 7” to 18.5”

- Medical and ITE dual certification (EN 60601-1 & IEC 62368) to provide complete application coverage
- Rich optional peripherals – Handset / TV Tuner (SMA Jack)/2nd Smart Card Reader, Barcode Scanner/PoE, RFID+HID
- Supports nurse call button & LED indicator
- Dual isolated Ethernet – Internet (for patients) and intranet (for hospitals) network traffic management and data security
- Supports RFID/NFC/Web Camera/Smart Card Reader