

# Health Sector News

## Spire Parkway has UK's first ORI FUSION

Karl Storz says its 'peerless' OR1 NEO integrated theatre system now has 'a new thoroughbred stablemate to meet the demand for light, fast and reliable IP-based switching and routing of surgical images using existing structured cabling'.

The company explained: "The OR1 FUSION – which has just seen its first UK installation at Solihull's Spire Parkway Hospital – provides the perfect answer for rapid, reliable installations and ease of maintenance, both on site and remotely. Hospital downtime is expensive, and with the OR1 FUSION native IP platform, an integrated theatre, complete with dual stream capture and routing, can be installed over the weekend using existing or new industry-standard structured cabling."

The OR1 FUSION can be configured in two principal modes – the first entails using the existing LAN and data switches to configure a VLAN with service-level agreements – 'ideal in teaching environments with Video on Demand (VOD) and archiving requirements'. The second, as at Spire Parkway, is to create a private 10



Gigabit Ethernet KSNET network and quickly distribute uncompressed, highly secure images to the HD LED screens and image capture system.

Integration with the Hospital Information System (HIS) and Picture Archiving and Communication System (PACS) means radiological scans can be displayed on any surgical viewing monitor independently, side-by-side, or 'picture-in-picture', with the live endoscopic full-HD video. The OR1 FUSION also features an anaesthetic safety system that enables image routing for video laryngoscopy, and the World Health Organization (WHO) Surgical Safety Checklist as standard.

At the system's heart is the fibre optic 10 Gigabit switch for the management of packetised data. Karl Storz said: "Galvanic isolation of signals is inherent in any optical system, and bridging to the outside world is easily achieved by providing a compressed low-latency stream to meet the constraints of the local area network. By installing the OR1 FUSION, Spire Parkway has ensured it has the bandwidth for 4K and 3D routing capability that can upgrade the OR1 over a weekend."

Karl Storz worked closely with the hospital to ensure the new system worked within its budget and met its needs. Nick Purser, consultant general surgeon, said: "I was delighted to be asked to be the first surgeon to use this wonderfully well-equipped new operating theatre. The view of surface and superficial anatomy was made superb by the fantastic lighting, and the high-tech camera and screens gave a very detailed view internally, making surgery much safer and easier. I know doctors and patients will benefit from this development for years to come."

## Cover Story

### Atlas Pendant e-Brake: improving the clinical workspace

Atlas Pendants offer 'complete solutions', designed for each application by Brandon Medical.

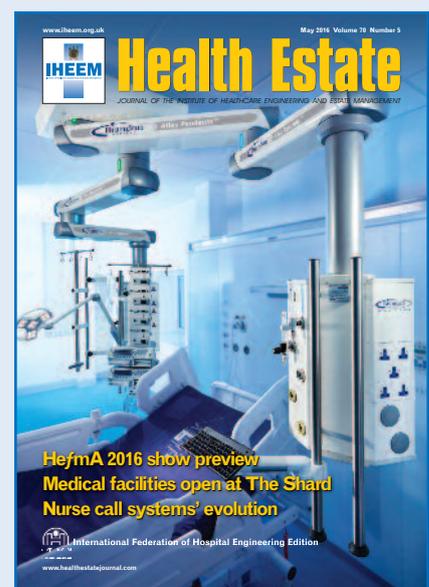
The company said: "It is recognised that each facility is different – both in terms of clinical requirements and building design. Each pendant is designed to meet the needs of the individual client."

Atlas Pendants are maintenance-free; 'unreliable' pneumatic brakes, reliant on compressed air connection, are no longer needed. "Pneumatic brakes often fail, and the high pressure leaking bladders create a high-pitched squealing noise, causing inevitable disruption in the clinical workspace," Brandon explained. "The new and improved electromagnetic e-Brake keeps the pendant safely in position, while reducing the overhead infrastructure; the system can contain the e-Brake much more comfortably than cumbersome pneumatic

brakes, and eradicates the need for the complicated process of feeding medical air through the arms of the pendant."

Atlas Pendants include the intuitive 'Lightguide' pendant e-Brake indication system. This uses illuminated LED coloured markers to give both an indication of e-Brake release, and the point of rotation. Brandon said: "The E-brake is incredibly reliable, and guarantees low future maintenance costs; the new Atlas Pendants system improves the entire clinical operation."

Given that when specifying a bespoke Atlas Pendants system, it may be difficult to predict the services required in the future, the system is 'completely future-proof'. Brandon explained: "The Atlas Pendants are the only custom, re-configurable pendants where the intensivists and surgeons can reconfigure the services provided by the pendant as their equipment needs change."



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# Helping spinal cord injury patients recover

Brandon Medical has contributed to the installation of patient entertainment units in the Yorkshire Regional Spinal Injuries Unit at Pinderfields Hospital in Wakefield.

The company has provided 32 ceiling-mounted monitor arms to support the entertainment systems designed for patients with spinal injuries. These include a rotational upgrade that allows the touchscreen monitors to be moved in a circular motion from portrait to landscape, enabling patients to watch their films and TV programmes without compromising their recovery.

The patient entertainment units were purchased by Spine, a registered charity which aims to be the voice of Pinderfields Hospital's spinal patients. Brandon



Medical said: "Spine has contributed immensely to providing spinal patients with facilities and activities, including newly decorated dining rooms and arts and crafts workshops."

Spine has appointed Kevan Baker OBE, a former paralympian, to the NHS England Clinical Reference Group for Spinal Cord Injury. Previously part of the patient user

group, he is behind many projects to support spinal injury patients' recovery and rehabilitation. He said: "We looked all over the world for a suitable monitor support arm, and then found Brandon on our doorstep."

Brandon Medical is now looking forward to contributing to the installation of eye gaze units in the Pinderfields Hospital's Quadriplegic Unit.



## Mobile Theatres: The simple on-site capacity solution

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### Diary dates

**17-18 May** Design in Mental Health 2016, National Conference Centre, Birmingham. T: 01892 518877; [www.designinmentalhealth.com](http://www.designinmentalhealth.com)

**17-18 May** edie Live 2016 (formerly Sustainability Live), NEC, Birmingham. T: 01342 332068; [www.exhibition.edie.net](http://www.exhibition.edie.net)

**19-20 May** HefmA 2016 Leadership Forum, Telford International Centre. T: 0344 571 7250; [www.hefma.co.uk/conference](http://www.hefma.co.uk/conference)

**25 May** Joint *IHEEM* Northern Ireland Branch Biennial Conference & Exhibition, Slieve Donard Resort & Spa, Newcastle, Co Down. T: 028 9504 8838; email [iheem.ni@outlook.com](mailto:iheem.ni@outlook.com)

**Jun** *IHEEM* BIM4Health BIM seminar, London – date and venue tbc. T: 023 9282 3186; [www.iheem.org.uk/events](http://www.iheem.org.uk/events)

**Jun** *IHEEM* Electrical seminar – section 710 Medical Locations, The Midlands T: 023 9282 3186; [www.iheem.org.uk/events](http://www.iheem.org.uk/events)

**23 Jun** *IHEEM* Water systems HTM-04 seminar, University Hospital of North Tees, Stockton-on-Tees. T: 023 9282 3186; [www.iheem.org.uk/events](http://www.iheem.org.uk/events)

**5 Jul and 26 Jul** respectively *IHEEM* Decontamination seminars, 'Dirty Little Secrets part 3', London – venue tbc, and Eastwood Park, Falfield. T: 023 9282 3186; [www.iheem.org.uk/events](http://www.iheem.org.uk/events)

**13 Jul** – *IHEEM* Water systems HTM-04 seminar, Taunton – venue tbc. T: 023 9282 3186; [www.iheem.org.uk/events](http://www.iheem.org.uk/events)

**20 Jul** 2016 *IHEEM* Water systems HTM-04 seminar, London – venue tbc. T: 023 9282 3186; [www.iheem.org.uk/events](http://www.iheem.org.uk/events)

**8 Sep** *IHEEM* Wales Branch Regional Conference and Exhibition, The Village Hotel, Cardiff. T: 01633 213160. [www.iheem.org.uk/wales](http://www.iheem.org.uk/wales)

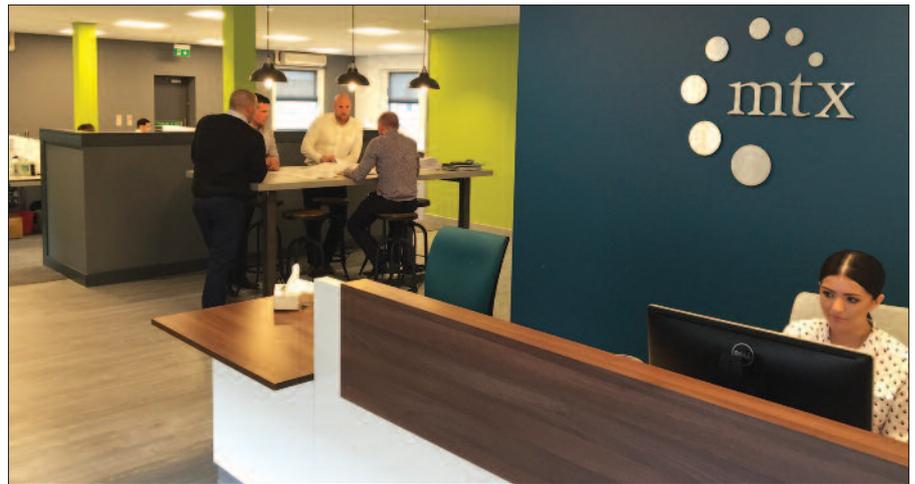
## Sustainability event returns to Birmingham

edie Live 2016 – formerly known as Sustainability Live – which claims to be the UK’s largest exhibition and conference dedicated to sustainability, returns to the NEC, Birmingham this month.

Being held from 17-18 May, the show covers ‘everything from solar on-site generation and software solutions, to innovative technologies and business case studies’.

Amanda Barnes, chief executive of event organiser, Faversham House, said: “edie Live will cater for anyone whose organisation has to deal with the strategic as well as the practical aspects of sustainable business and resource efficiency – be it energy management, water, waste, corporate and social responsibility, or low carbon. The show will cover three imperatives of the industry: bottom line, compliance, and reputation. It’s about driving organisations or businesses to look for higher profits in a sustainable manner; complying with legislative demands, and ensuring that their reputation is protected.”

Among the features of the two-day exhibition and conference will be free CPD-accredited seminar sessions based on the key industry themes of ‘Energy efficiency’, ‘On-site solutions’ and ‘Resource efficiency’.



## Move represents ‘next chapter’ for MTX

Construction and engineering specialist, MTX Contracts, moved in late March to new premises at Brooke Court in Handforth, Cheshire, following 30 years at its previous site in High Lane, Stockport.

MTX works on a nationwide basis, both in England and Wales, providing hospitals with clinical accommodation in the form of new-build projects, and off-site construction, and is also extensively involved in the remodelling and refurbishment of existing hospital departments. Among its regular customers in the north-west of England are Manchester Royal Infirmary, Stepping Hill Hospital, and Macclesfield District General Hospital; MTX has provided a variety of operating theatre and ward accommodation for

the Trusts operating these hospitals.

The move to Brooke Court represents an investment of almost £1 million, and will allow the business to continue to grow and prosper. David Hartley, commercial director, said: “This is a very exciting time for MTX, and the next chapter in our history. The new offices provide us with a fabulous environment to work from, and to welcome new customers to, while also giving us space for expansion. Their location is also superb, with great connections to road and rail networks, which is key to attracting new talent.”

MTX says it will continue to focus on the healthcare sector, while also continuing to seek opportunities in other markets to ensure stability and sustained growth.

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# Event to focus on design in mental healthcare settings

With the NHS in England recently committing to 'the biggest transformation of mental healthcare across the NHS in a generation', this month sees the Design in Mental Health 2016 conference, exhibition, and dinner take place at the National Conference Centre (formerly known as the National Motorcycle Museum) in Solihull.

This year's annual Design In Mental Health Network event takes place from 17-18 May, bringing together architects, mental health professionals, and service-users – 'in fact everyone involved in delivering therapeutic environments'. IHEEM is an event supporter, and will have a stand, where head office staff will be on hand to explain the benefits of Institute membership.

Conference keynotes will be given by Tom Cahill, CEO of Herts Partnership University NHS Foundation Trust, and Faisal Sethi, consultant psychiatrist and associate clinical director at the London & Maudsley NHS Foundation Trust. Other

speakers will include Matthew Balaam, partner at Oxford Architects; Lianne Knotts, associate director, Medical Architecture; Professor Harry Kennedy, consultant forensic psychiatrist and executive clinical director at the National Forensic Mental Health Service in Dublin; Stephanie Brada, P21+ development director at Willmott Dixon; Jeff Bartle, head of Design at St Andrew's Healthcare; Ginni Duncan-Bilham, assistant project manager, Sussex Partnership NHS Foundation Trust; Stuart McArthur, Health Sector leader, Laing O'Rourke, – and Rosemary Jenssen, director, Jenssen Architecture. Conference sessions will cover topics including 'CAMHS environments', 'Use of technology in the environment'; 'Delivering design quality', 'Dementia'; 'ProCure 21+ / ProCure 22', 'Post-Occupancy Evaluation', 'Interior design', and 'Outside spaces'.

For more information, visit [www.design-mentalhealth.com](http://www.design-mentalhealth.com), or T: 01892 518877.



## Vision panels with visual appeal

Good observation while maintaining privacy and dignity, anti-ligature features, and the ability to incorporate artwork, were among the key factors in the recent specification of Vistamatic vision panels incorporating a different flower for each bedroom for the newly refurbished Suite 3 Dementia Ward at Tonna Hospital in Neath, South Wales.

Keen to find 'something new and innovative' when planning the works, Marcus Eyre, project manager, Capital Planning, at the Abertawe Bro Morgannwg University Health Board, attended a Mental Health and Dementia Forum where he met Vistamatic, and saw one of its new anti-ligature vision panels with artwork on show. Following a meeting and demonstration, the vision panels were directly specified at the Trust's request.

Vistamatic said: "The Trust was confident that the innovative new design – with different flowers in the panels for each bedroom, would help with recollection, helping service-users to identify their bedrooms."

Marcus Eyre said: "Vistamatic vision panels were specified as a result of the company's well-established record of providing reliable security, privacy, and protection, in sensitive environments. They provide a practical solution, while respecting service-users' privacy and dignity, and promoting recovery and independence. The anti-ligature panels will play a vital role within the refurbished ward. The staff know and trust the product, and rely heavily on it when performing their day-to-day care duties."

## Joint venture continues Ulster Hospital work

South Eastern Health and Social Care Trust has appointed the GRAHAM-BAM Healthcare Partnership, a joint venture between GRAHAM Construction and BAM, to deliver Ulster Hospital's new £95 million Acute Services Block – currently Ireland's largest live healthcare project.

The Acute Services Block is part of the Trust's wider redevelopment plan for the Belfast hospital; it will replace the 'outdated' existing main ward block and other specialist acute services within the wider hospital estate. This building will sit adjacent to a new £86 million ward facility presently being constructed by GRAHAM-BAM Healthcare Partnership on the same complex, scheduled to complete this autumn.

The GRAHAM-BAM Healthcare

Partnership was appointed to the four-year, £185 m construction framework in 2013, and has now been appointed as main contractor to deliver the second facility – an eight-storey, 31,000 m<sup>2</sup> Acute Services Block, incorporating specialist wards, support services, an assessment unit, inpatient imaging department, and a new emergency department with the capacity for 110,000 attendances per year.

The scheme has been designed to achieve BREEAM 'Excellent', and will use flat slab construction to integrate the structure with its services and the clinical spaces. The building's high thermal mass will reduce operational running costs, while the delivery of the structural and acoustic solutions 'will further support the healthcare services'.



Image courtesy of Avanti Architects/Kennedy Fitzgerald Architects.