



# 2022 Technical Guide

Your guide to the world of AV



# A word from our General Manager

# Introduction

Will 2022 be the year when things finally begin to return to life as we know it? Let's hope so.

We are seeing companies change their approach to workspaces and they now understand constant challenges need to be answered with a firm eye on a future that embraces working from home (WFH) or a hybrid working environment.

Businesses are collaborating internally and externally to create tailored solutions that explore new ways to work – empowering customers, clients and employees to have a say in the path forward.

Midwich is acutely aware that tech can make the work life easier. Our employees are outfitted with the tech they need, like PTZ cameras, ring lights and microphones to help them communicate effectively and stay connected to feel part of a team.

Of course, technology also has a part to play in every facet of our lives and no less so than in the area of digital signage. Sports bars and entertainment venues, retail and advertising and even aged care, all benefit from this flexible, dynamic and exciting communication medium that is now easier than ever to use. New software platforms and improved image quality for displays make digital signage entirely accessible.

Midwich is pleased to welcome B-Tech AV Mounts, Huddly, Fusion Signage and MediaStar Systems to our product portfolio, all of who contribute to the new world of digital signage solutions among other AV requirements.

We trust our Technical Guide will prove helpful and encourage you to speak to our sales or technical teams to learn more.

**Francis Poh**  
**SEA General Manager**

In this issue...

## Technical Video

Mi Support

Meeting Room Solutions - UC & C

Meeting Room Solutions

- Video Conferencing

Professional Video Cameras

Document Cameras

Digital Signage

Room Booking

Video Processing

LED & Video Walls

Professional Displays

Projector Screens

Connectivity & Control

Technical Furnitures

Mounts & Accessories

Interactive Displays

our expertise is your advantage



 **ATLONA**  
a **PANDUIT** company

**BrightSign**



**CONCIERGE**

**DATAPATH**  
EXCELLENCE IN DESIGN



**DTEN**

**Haivision**



**Jupiter**

fusion signage

**LEYARD**

**Lumens**  
Brilliance by Design



**mersive**  
technologies inc

**MIDDLE ATLANTIC**  
A brand of Q Sigmat



**Mi Support**

**PLANAR**  
A LUMENAS Company



**Promethean**

**SONY**

**TeamMate**

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# Mi Support Assurance

Mi Support Assurance is technical support and after-sales maintenance for audio visual (AV) and unified collaboration (UC) systems that goes beyond "break-fix". It is available on selected brands distributed by Midwich.

01

## Service Level Agreement

Mi Support Assurance offers flexible SLA terms for either 12 months (minimum) or two, three and five year options, which are invoiced in advance.

02

## 24/5 Helpdesk Support

Mi Support Assurance provides real time, 24/5 access to our Helpdesk operated by engineers with hands-on experience and access to a comprehensive knowledge-base and support processes

03

## Advanced Hardware Replacement

Rather than relying on standard manufacturers warranty, Mi Support Assurance includes advanced hardware replacement, despatched next working day, from our service centres.



# Agile working technology levelling up

It's no mystery that collaboration is paramount to business productivity and efficiency in the office. However, with the recent COVID-19 pandemic, employees have been working from home, which requires a switch in collaborative technologies to support the new working world.

The DTEN ME is an all-in-one personal collaboration device. This 27" device offers a collaborative solution for video meetings and phone calls enabling interactive whiteboarding and annotating.

Easily login with your Zoom user licence for one-touch:

- Video meetings
- Crystal clear phone calls
- Seamless content sharing
- Interactive whiteboarding
- Annotations

Where would I use the DTEN ME?

The whiteboarding and annotation features promote easy working and learning from home. The combination of the 8-microphone array and quad speakers allow for harmonious meetings from your desktop. An ultra responsive multi-touch display plays to everyone's advantage, streamlining day-to-day usage and rivalling in-person meetings.

Low cost and easy to set up, the DTEN ME works with your own personal Zoom account, meaning it's free of charge and requires minimal integration. With a 1-sheet instruction manual, a power cable and the 27-inch DTEN ME PCAP touch screen, you'll be up and running in minutes!

Meeting calls lasting longer than 40 minutes will require an upgrade to the basic Zoom account, but don't worry - the DTEN ME works on any Zoom licence.



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# All-in-one collaboration everywhere

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DTEN builds innovative communications technology creating the ideal environment to communicate and collaborate. Their award-winning collaboration solutions combine all-in-one cutting-edge features, plug-and-play ease, high quality performance and affordability.

DTEN's Zoom certified appliances and integrated service subscriptions revolutionise the way teams around the world connect, communicate, and collaborate. Whether you are looking for an all-in-one device for a personal workspace or boardroom, DTEN has a solution.

## Home Office



DTEN GO with MATE

## Collaboration Space



DTEN ME

## Huddle Rooms & Small Meeting Spaces



DTEN ME Pro



DTEN ON

## Conference Rooms & Board Rooms



DTEN D7 55" / 75" / Dual 55"



# Maximise the potential of your meeting spaces

Solstice Pod allows simultaneous users to wirelessly share content to the room display and seamlessly bridges to remote locations using any major video conferencing service. With Solstice at the centre of your meeting spaces, you get the productivity gains of wireless collaboration with the power of fully integrated video conferencing. And always have a plan B, for when those inevitable signal losses occur.



## The Mersive Advantage



Collaboration Platform - premise software that runs on a network endpoint connected to in-room peripherals. App allows any client device to share content & collaborate on the room display.

Cloud Services - Online portal for predictive monitoring, centralised management, and advanced analytics of on-premise and cloud-based solutions.

Cloud Integrations - Seamless integrations with third-party web services, such as conferencing and calendaring, that enrich meeting and learning experiences.



## Solstice Subscription Plans

Unlocks access to all software updates for Solstice Pod, as well as access to Solstice Conference and Solstice Cloud Analytics.

As a software company, Mersive is continually innovating to make meetings more inclusive, productive, and engaging. Mersive releases an average of four major software updates yearly with upgrades to current features and brand new capabilities.

Solstice Subscription provides access to all software updates, continually increasing the value of your meeting and learning spaces.





**Solstice Pod 3 – The Solstice Pod combines Solstice collaboration with high performance hardware and robust I/O capabilities to transform meeting and learning spaces into powerful collaboration environments.**

More than just a wireless presentation system, Solstice offers various features and integrations – such as conferencing support, room calendar integration, digital signage playback, centralised monitoring and management, and meeting analytics to drive meeting productivity and ROI.

### **Pod Gen 3 Wireless Unlimited Enterprise**



The Mersive Solstice Pod SP-8000-EI is a wireless group collaboration device that leverages existing WiFi/Ethernet networks to allow for wireless content sharing and group collaboration in conference rooms, huddle spaces, classrooms, and business facilities. The SP-8000-EI allows for unlimited users to connect and share at any given time. Power supply not included as this unit offers PoE (Power over Ethernet).

- Unlimited Users for Screen Collaboration
- Wireless Content Sharing for Windows, iOS, MacOS, & Android
- AirPlay & Miracast support
- No limits to amount of content that can be shared

### **Pod Gen 3 Wireless Small Group Enterprise**



The Mersive Solstice Pod SP-8100-EI is a wireless group collaboration device that leverages existing WiFi/Ethernet networks to allow for wireless content sharing and group collaboration in conference rooms, huddle spaces, classrooms, and business facilities. The SP-8100-EI allows for 4 users to connect and share at any given time. Power supply not included as this unit offers PoE (Power over Ethernet).

- Up to 4 Users Screen Collaboration
- Wireless Content Sharing for Windows, MacOS, Android, and iOS
- AirPlay & Miracast support
- No limits to amount of content that can be shared

### **Solstice Subscription Plans**

Solstice Pod Gen 3 with Unlimited & Small Group Enterprise Edition



### **Enterprise edition unlimited users with 1 – 5 years Subscriptions**

Upgrade Solstice Pod Gen3 stock unit (with perpetual Unlimited Enterprise software license unlimited users) to include an additional year 1-5 years of Solstice Subscription.

### **Small group edition up to 4 users with 1 – 5 years Subscriptions**

Upgrade Solstice Pod Gen3 stock unit (with perpetual Small Group Edition Enterprise software license up to 4 users) to include an additional 1-5 years of Solstice Subscription.





**A new, agnostic room system that enhances video conferencing with rich content sharing.**

Solstice Conference makes meeting and learning spaces interoperable with all major conferencing platforms by wirelessly connecting the conferencing services on users' laptops to the room display and audio/video peripherals.

#### **1. Simple Room Setup**

The Solstice Pod attaches to the local WiFi/Ethernet network, room display, and room audio/video.

#### **2. Touchless One-Step Start**

Enter the 4-digit PIN visible on the display and Solstice automatically connects and starts the scheduled conference.

#### **3. Wirelessly Connects the Room Technology**

Solstice wirelessly connects the room display, camera, and audio to the web conference.

#### **4. Enjoy Better Collaboration**

Easily share, arrange, and markup content while remote participants see everything happening in the room.



**Software-based video routing for multi-screen environments.**

Solstice Active Learning is quick to deploy and easy to use, allowing instructors to drag-and-drop video feeds among multiple displays.

#### **1. Attach a Pod to Each Display in Your Room**

The Solstice Pod acts as a video encoder/decoder to send and receive video feeds over the local network.

#### **2. Enable the Room and Invite Users**

Assign Pods to rooms in Solstice Cloud and invite Active Learning designers and facilitators to download the app.

#### **3. Design Your Room(s) within the App**

Drag-and-drop room elements – displays, tables, and door – to create a virtual representation of your space.



**Deployment management and meeting space analytics.**

Solstice Cloud is a secure cloud portal that allows administrators to easily manage, analyze, and optimize their Solstice-enabled rooms.

#### **1. Create your Solstice Cloud account and Import Pods**

Organizations with one or more Solstice Pods can create a free Solstice Cloud account and import your Solstice Pod(s).

#### **2. Manage Your Solstice Deployment at Scale**

Leverage configuration templates, scheduled updates, and more to manage Solstice Pods at scale from anywhere.

#### **3. Analyse and Optimise your Meeting Spaces**

Collect data on your meeting and learning spaces and leverage those insights to optimize utilization and productivity.



Many business leaders see face-to-face collaboration as the primary reason to have employees return to the office. There are multiple aspects to consider when looking at conference rooms, meeting rooms, huddle spaces, and training rooms:

# Infrastructure to support adapting technologies in hybrid workspaces

## Touch-Free AV



**AT-OME-MS52W**  
**AT-VTP-800**  
**AT-VGW-HW**

Touch-free solutions that allow groups to filter in and out of conference rooms without the worry of sanitizing equipment between uses.

## BYOD AV Control



**AT-OME-EX-KIT**  
**AT-OME-MH21**  
**AT-OME-PS62**

BYOD capabilities so users can easily share content from their personal device.

## Video Conferencing



**AT-OME-MS42-KIT**  
**AT-HDVS-CAM**

Video conferencing that supports participants who are in the room and those who are remote.

## Room Scheduling



**AT-VGW-HW**  
**AT-VSP-800**  
**AT-VTP-1000VL**

Room scheduling systems that connect with scheduling software and provide up-to-the-minute transparency into room usage.



# Touch-free AV presentation solutions

Atlona highlights a number of our AV and Control system technologies that eliminate or minimise users having to touch shared technology components to help keep workers safe while collaborating.





# Huddly

## Work smarter not harder

Premium UC solutions from Huddly & Mersive



Smart AV technology allows meetings to start on time, with the equipment using built-in software to take the pressure off manually setting up your meeting space technology. Our premium UC solutions from Huddly and Mersive utilise Solstice Conference to offer seamless integration with existing meeting room technology, calendar and conferencing services to enable a one-step meeting start.

Face count technology in meeting spaces helps to identify how many people are in a room and whether it is at a safe occupancy level. Huddly cameras paired with Mersive Solstice can also be enabled as occupancy counters, and metrics such as peak and average hourly occupancy can be viewed using Solstice Cloud Analytics.

This technology will also be used to help inform building managers on how meeting spaces are used, analytics will show if a large board room is regularly being used by only a few employees.



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5 people

Bin

Person

Person

Person

Person

Person

Content

Cup

Cup

# Building big ideas...

- 150 degree wide angle cameras
- Groundbreaking AI features
- Team collaboration anywhere
- Across all video platforms

## L1



For large and medium rooms. Huddly L1 captures everyone in sharp detail with a 6K sensor and a fixed-focus lens. The camera intelligently frames participants and offers valuable insights with room analytics.

## Canvas



For whiteboards in any room. Huddly Canvas makes video collaboration easy. With a single click, you can share a real-time stream of the whiteboard. Using AI, Canvas enhances the content so that it is perfectly readable.

## IQ



For small and medium rooms. Huddly IQ delivers a 4K, wide-angle view of everyone in the room and features an optional microphone array. The camera intelligently frames participants and offers room analytics.

## ONE



For desktop and laptop. Huddly ONE is designed for one-person scenarios. It features Full-HD, wide-angle video and intelligently adjusts image brightness. ONE works on Mac and PC, with any app.

## GO



For small spaces and huddle rooms. Huddly GO's wide-angle lens ensures everyone is seen. With its compact design and USB connection, you can mount the camera anywhere. GO works with all collaboration apps.



Perfect for Microsoft Teams, Zoom and Google Meet

# Lumens™

Brilliance by Design

## High resolution video conferencing

### VC-TR1 / Full HD Auto-Tracking Camera

- Automatic subject tracking with smart switching
- Full HD 1080p 60fps with 20x optical zoom
- HDMI, 3G-SDI, IP, and USB video outputs
- Supports Power over Ethernet (PoE+)
- RTSP / RTMP / RTMPS and HEVC (H.265) / H.264 / MJPEG video streaming
- Compatible with Barco ClickShare Conference



### VC-A50P / PN Full HD 60fps IP PTZ Camera



#### VC-A50P Full HD 60fps IP PTZ Camera VC-A50PN IP PTZ Camera with NDI®

- 1080p, 1080i and 720p HD settings
- Ethernet, HDMI, and 3G-SDI triple video output
- Supports SRT, RTMP, & RTMPS streaming protocols
- Remote monitoring and control
- Stereo audio input with AAC encoding
- 20x optical zoom

### VC-A71P / PN Full HD 60fps IP PTZ Camera



#### VC-A71P 4K 60fps IP PTZ Camera VC-A71PN 4K NDI®|HX PTZ Camera

- 4K UHD 60fps and 1080P 60fps output
- 30x optical zoom, 63° maximum horizontal field of view
- Supports Newtek's NDI®|HX for video networking and low latency IP production
- Built-in tally light

### VC-A61P 4K 30fps PTZ IP Camera



#### VC-A61P 4K 30fps PTZ IP Camera VC-A61PN 4K NDI®|HX PTZ Camera

- 1080p, 1080i and 720p HD settings
- Ethernet, HDMI, and 3G-SDI triple video output
- Supports SRT, RTMP, & RTMPS streaming protocols

### VC-A71P / PN Full HD 60fps IP PTZ Camera



#### VS-K20 / VS-KB30 IP PTZ Camera Controller with Joystick

- RS-232, RS-422 control
- Supports VISCA and PELCO D protocols
- Joystick for variable speed camera control

# BrightSign®

## The most valuable player

BrightSign players are built specifically for digital signage with increasing levels of video & HTML performance to deliver quality experiences you can absolutely rely on.



Purpose-built for Signage



Solid State Platform



Patented for Extreme Temps



Energy Efficient



Commercial Grade OS



Cloud Connected



Integrated CMS Partners

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Every player includes a free Control Cloud subscription to BSN.cloud for real time player health, remote player controls & your choice of CMS

**XT Enterprise | Enterprise HTML performance**



**XT224 Standard I/O Player**

Enterprise HTML performance, POE, True 4K Dolby Vision™ and dual zone HDR10+ Playback.



**XT1144 Expanded I/O Player**

Enterprise HTML performance, POE, True 4K Dolby Vision™ and dual zone HDR10+ Playback. Expanded IO interactive options via HDMI In, USB 2.0 (type A) and serial ports.

**XD Advanced | XD Expanded I/O Player**



**XD 234 Standard I/O Player**

True 4K Dolby Vision™ and HDR10+ Playback. Advanced HTML performance.



**XD 1034 Expanded I/O Player**

True 4K Dolby Vision™ and HDR10+ Playback. Advanced HTML performance. Expanded IO interactive options via USB 2.0 (type A) and serial ports.

**Network management platform for connecting players to the cloud**



Free for all BrightSign players, the innovative BSN.cloud platform delivers cloud-connectivity and provides a total signage solution to meet your unique needs. Securely manage one player or thousands - anytime, anywhere.

**HD Mainstream | Updated Classic**



**HD 224 Standard I/O Player**

HD224 Media Player with 4k video playback and mainstream HTML performance.



**HD 1024 Expanded I/O Player**

With 4k video playback and mainstream HTML performance. Expanded IO interactive options via USB 2.0 (type A) and serial ports.

**LS Entry Level | Affordable HD**



**LS424 Entry-Level Media Player**

BrightSign's entry level, commercial-grade player delivers signature reliability and affordability in an extremely compact form.

**Basic and Advanced BrightSign Training**

Available for Mi Support Assurance Customers



# fusion signage

## The digital signage software solution for any industry

Bring digital signage to life in minutes, at a fraction of the cost. Fusion Signage – the friendliest CMS (content management software) – offers the exact, streamlined tools businesses need to elevate relevance, customer experience and excitement. The affordable yet flexible solution designed for functionality.



### Free Trial

Set up a screen and test out all Fusion Signage has to offer for three weeks. Free demo included.



### Basic Licence

New to digital signage? Get everything needed to get content onto screens quickly and easily.



### Advanced Licence

Empowering advance planning, management and scheduling of entire digital signage networks with ease.



### Pro Licence

Makes the management of hundreds to thousands of screens effortless.

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# CONCIERGE

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## Meeting room bookings at your fingertips

Meetings run smoother with Concierge Displays innovative and flexible room booking solutions. Easy to use and capable of integration with existing calendars, Concierge Displays have improved the productivity of thousands of meeting rooms around the globe.



**ACMG10**  
10"

Concierge 10.1 inch Room Booking Display provides a snapshot of the room activity for the day. Simple traffic light colours instantly notify whether the room is in use.



**ACMG10-A**  
10"

Inbuilt RFID and NFC for ID authentication and attendance tracking. The display provides a snapshot of the room activity for the day. Simple green and red displays instantly notify whether the room is in use.



**ACMG15**  
15"

The 15.6 inch Room Booking Display provides a snapshot of the room activity for the day. The larger display size makes viewing your room booking information easier.



# You need visibility, Jupiter can build it.



PixelNet® 2.0

PixelNet 2.0 hardware adds native support for 4K video, fiber network, and audio for a scalable and ultra high definition video distribution system that can support an unlimited number of inputs and displays in multiple locations.



J- Series Display Wall Processor

J-Series display wall processors are the latest industry leading products from Jupiter Systems. The J400 and J600 processors are designed from the ground up to be fast, efficient and cost effective yet simple to deploy.



C-Series 4K Display Wall Processor

C-Series is a cost effective line of 4K display wall processors featuring the Canvas collaborative visualisation software platform. Ideal for smaller installations, it comes fully pre-configured as stand-alone display wall processors with high-performance hardware that can decode up to 8 IP streams and support up to 10 direct video connections.



# DATA PATH

EXCELLENCE BY DESIGN

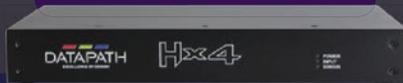
Philippines and Malaysia only

## Control rooms made simple

### Multi-display Controllers

Display high quality content from almost any source, across multi-screen display walls, in any creative configuration imaginable.

#### Stand-alone Display Wall Controller



#### Hx4

Capacity to run a single 4K HDMI source across four HD outputs in ultra-high definition. When used with the powerful Wall Designer application software, the Hx4 represents any arrangement or configuration of the source image desired.

#### 4K Display Wall Controller with 4 SDI input



#### FX4-SDI

Ta choice of 3G-SDI, DisplayPort 1.2 and HDMI 1.4 inputs. The intuitive UI allows users to determine which input is used. Dual Ethernet ports allow users to add the device to their networks. A dedicated BNC connector allows users to SYNC with third party hardware.

#### FX4 4K Display Wall Controller with 4 HDMI



#### Fx4

The Datapath Fx4 is a multi-faceted stand alone display controller that supports a choice of inputs, high bandwidth loop-through as well as 4 genlocked outputs in either DisplayPort or HDMI.

#### 4K HDR Display Controller with 4 x HDMI Outputs



#### Fx4-HDR

The Datapath Fx4-HDR builds on the success of its award winning Fx4 and x4 predecessors and brings the superb HDR 10-bit colour clarity, 4K60 resolution as well as audio support into the mix.

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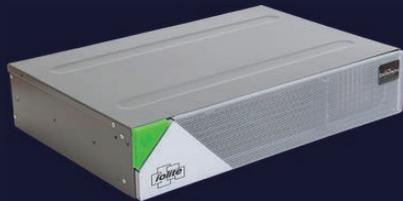
Philippines and Malaysia only

## iolite Controllers



### iolite 600 screens video wall controller

The iolite is a discreet solution for small to medium scale video walls. The self contained video wall controllers fit perfectly into retail, public and corporate environments and offer incredible flexibility.



### iolite 12i Videowall controller

Designed for environments that require very low noise levels and where space is a premium, the iolite 12i fits perfectly into retail display areas, corporate headquarters and boardrooms.

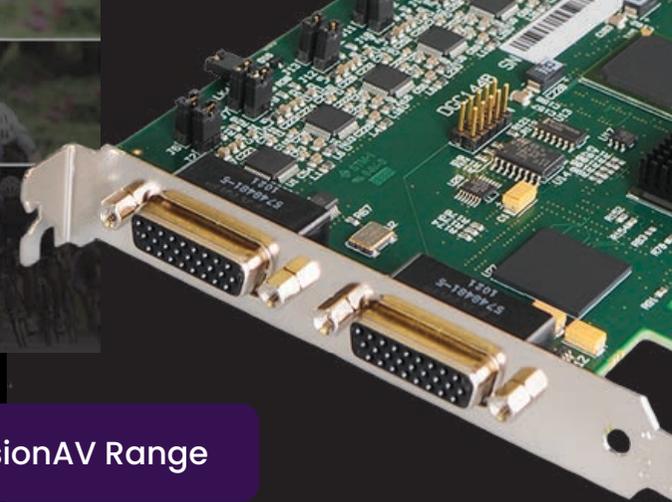
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The ability to install multiple screens and drive them from a single, simple unit has become central to businesses wanting to enhance conferencing and presentation facilities. In turn, reception areas require sufficient space to accommodate video-centric formational resources, news feeds and traditional signage delivering corporate messaging in a variety of ways.



## Wall Designer

Datapath's Wall Designer software allows users to design complex display walls of all sizes and configuration, before deploying and continuously managing content.



## Video Capture Cards

Ranging from 4K capture, to small profile cards, Datapath has a solution to meet all requirements.

### VisionSC Range



The VisionSC range, made up of DisplayPort1.2, SDI and HDMI inputs, offers 4K capture up to 60 frames per second, 10-bit colour transfer and HDCP compliance. The range is ideal for a variety of markets where high end video capture is needed, including medical, broadcast, defence and security.

### Vision Range



The Vision range covers a wide array of applications such as lecture capture, medical imaging and video conferencing. The Vision range consists of PCIe cards with DVI or SDI inputs, all of which can be used in a VSN system if needed.

### VisionAV Range



The VisionAV range is all about built-in, synchronised, audio capture, making the cards ideal for lecture capture, web casting and video conferencing.

### VisionLC Range



The LC range of capture cards are perfect for applications that do not require multistream clients. Available in single and dual channel HDMI, and single channel SDI. Ideal for adding to a lecture capture or medical system.

### VisionIO Range



The VisionIO range offers an on-board alpha blending capability, allowing a secondary source of frames to be overlaid onto the outgoing display in real time.

## Video Wall Controllers

Datapath supplies video wall controller systems that are capable of integrating many types of video and data sources onto any display configuration.



VSN 11 and VSN 9 Series

Designed for environments that demand high performance and reliability the VSN 11 Series systems have been redesigned to provide users more memory, the latest processors and enhanced performance.



VSN 400

The Datapath VSN400, a video wall controller that has been designed for video wall and multi-screen display installations that require a balanced number of HD video captures and HD video outputs.



VSN Micro 600

The VSNMicro 600 platform is fully customisable with options available for different Intel processors, hard drive sizes and specifications, memory configurations and software choices.

## Graphic Cards

IQS4 | Single 4K Input, Four HD Output Video Splitter



IQS4 is Datapath's 4K splitter solution engineered specifically for large, multi-output video wall applications.

Image4K | 4 Channel HDMI 2.0 4K Graphics Card



- 4 x HDMI 2.0 outputs
- 3840 x 2160 at 60 Hz resolution
- PCI-Express 3.0 x16 Interface
- Up to 6 cards can be used in a system

Image2K | 4-Channel HDMI PCIe Graphics Card



- 4-Channel HDMI PCIe Graphics Card
- PCI Express x16 mechanical, x8 electrical (Gen. 3)
- 4 Outputs of 2560x1600 at 60 Hz
- 2 Outputs of 3840x2160 at 60 Hz

# LEYARD™

## LED excellence

Leyard provides full color indoor, outdoor, rental, fixed, fine pitch, transparent and creative LED display screen solutions, LED video walls.



TVF Series

- 0.9, 1.2, 1.5, 1.8 & 2.5mm pixel pitches
- 24x7 reliability
- Lifetime warranty
- Slim mounted profile less than 3"

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### Channel 10 LED Video Wall New state-of-the-art TV studio

The LED wall forms the main backdrop for Australia's Network 10 daily news at 5pm and Studio 10 daily show. The Leyard TVF1.5 was specifically chosen after undertaking a shootout with other LED vendors and was selected for the following reasons:

- On camera performance (no noticeable moiré)
- Legacy projects/case Studies – Leyard has a long standing relationship with multiple studios such as CBS, NBC, Olympics etc and have proved to be robust, high performing products
- Local Support – The Midwich “value add” created a strong case for Leyard which ultimately won the project. CH10 needed to know local support was available for a mission critical product

# Next-generation LED videowall solution

LEYARD™

## The QUT Sphere

LED Sphere Offers Ultimate Wow Factor and Research Tool for Educational Training

Suspended over two floors in a large, open atrium is the centre attraction of the new precinct building—a massive five-meter diameter LED globe weighing 3.5 tons and composed of 1,040 individual panels and 12.7 million individual LED lights (12.7 million 3mm pixels). Built by Linso, a Leyard company, the Sphere is a first-of-its-kind digital marvel and cutting-edge research tool for the Faculty of Education to advance teacher training.

### DirectLight X

- 0.7, 0.9, 1.2, 1.5, 1.8mm pixel pitches
- Mission-critical 24x7 reliability
- Advanced video wall processing
- Off-board power and control

### VVR Series

- 2.5, 3.9, 4.8mm pixel pitch (Indoor)
- 2.9, 3.9, 4.8, 5.9, 7.8, 10.4mm (Outdoor)
- Single-person handling
- Hang, stack, or wall mount



# Inspiring imagination

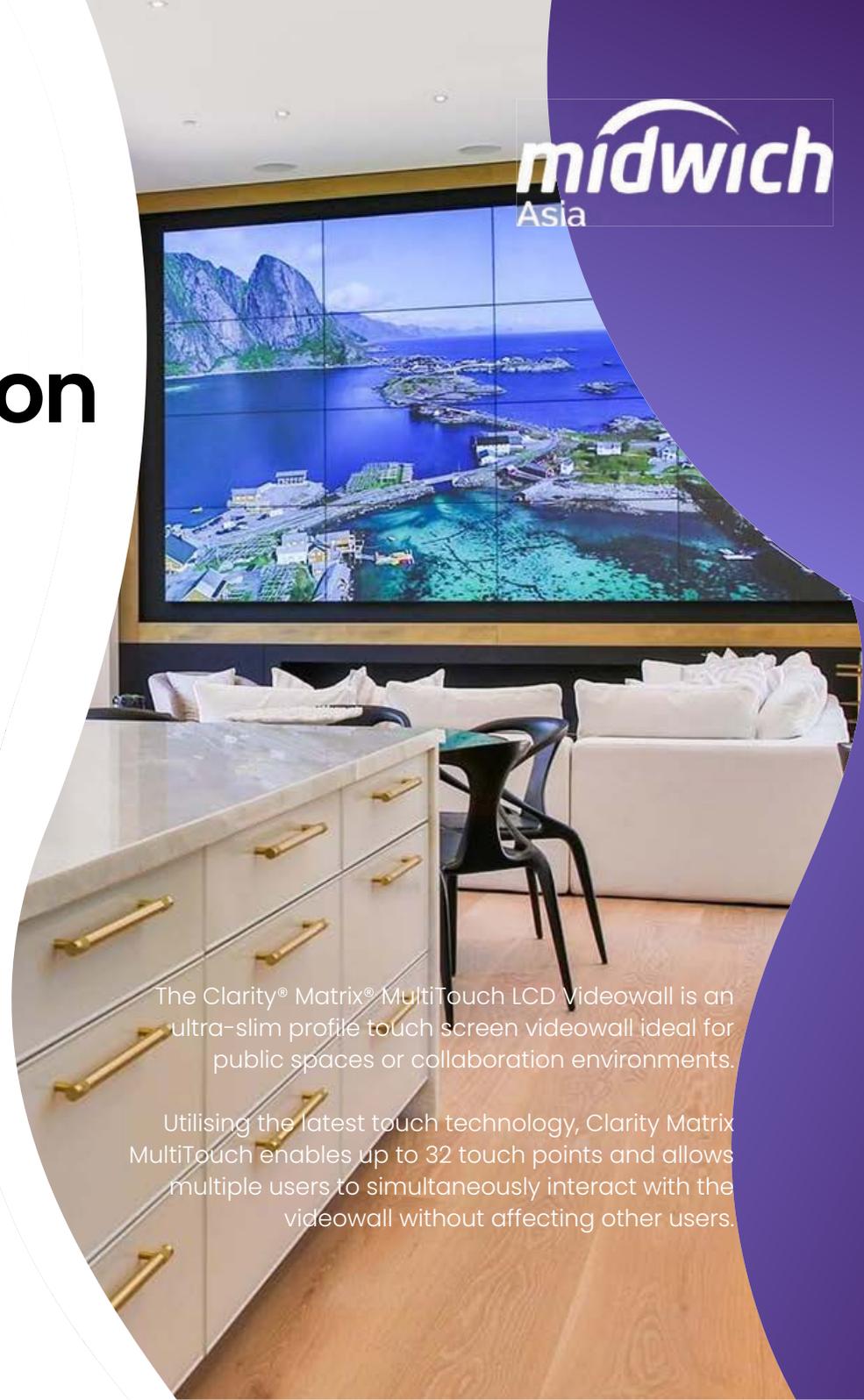
Planar delivers best-in-class, award-winning LCD video walls with the narrowest bezels, most flexible mounting systems and slimmest profiles in the industry.



## Clarity® Matrix® G3 LCD Videowall System

### Interactive LCD Videowall System

- 55" Full HD LCD displays
- Tiled bezel widths as narrow as 0.88mm
- Mission critical 24x7 reliability
- 500-700 nit brightness



The Clarity® Matrix® MultiTouch LCD Videowall is an ultra-slim profile touch screen videowall ideal for public spaces or collaboration environments.

Utilising the latest touch technology, Clarity Matrix MultiTouch enables up to 32 touch points and allows multiple users to simultaneously interact with the videowall without affecting other users.

Emotional Recovery



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**PLANAR**  
A LEYARD Company

**Mosaic Architectural  
LCD Video Wall**

- 22" LCD video wall display tiles
- Mount tiles at any angle or in any position
- Scale one image or video over the tile layout
- Includes Mosaic Ensemble package



**Transparent  
LookThru OLED**

- 55" size
- Full HD resolution (1920 x 1080)
- Table mount, ceiling mount or tiled installation
- 38% light transmission



Professional Displays

Planar

# Haivision

## Encoders | Makito X Series



### Makito X H.264 | HEVC Video Encoder

Available as a compact H.264/HEVC SDI or H.264 DVI encoding appliance, 1RU (6 blades) or 4RU (21 blades) chassis. Supports ultra low end-to-end latency for 1080p video.



### Makito X H.264 Video Encoder with Storage

Available with 250GB of internal or removable solid state drive options. Storage options are available on all standard Makito X blade flavors.



### Makito X Harsh H.264 Fanless Encoder

An industrial-grade fanless appliance designed for noise sensitive and mobile applications.



### KB Mini H.264 | HEVC Encoder

SDI/HDMI encoder and IP stream transcoder, ideal for delivering cascades of adaptive bitrate RTMP/HLS/MPEG-DASH for Internet streaming.

Makito

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# Haivision

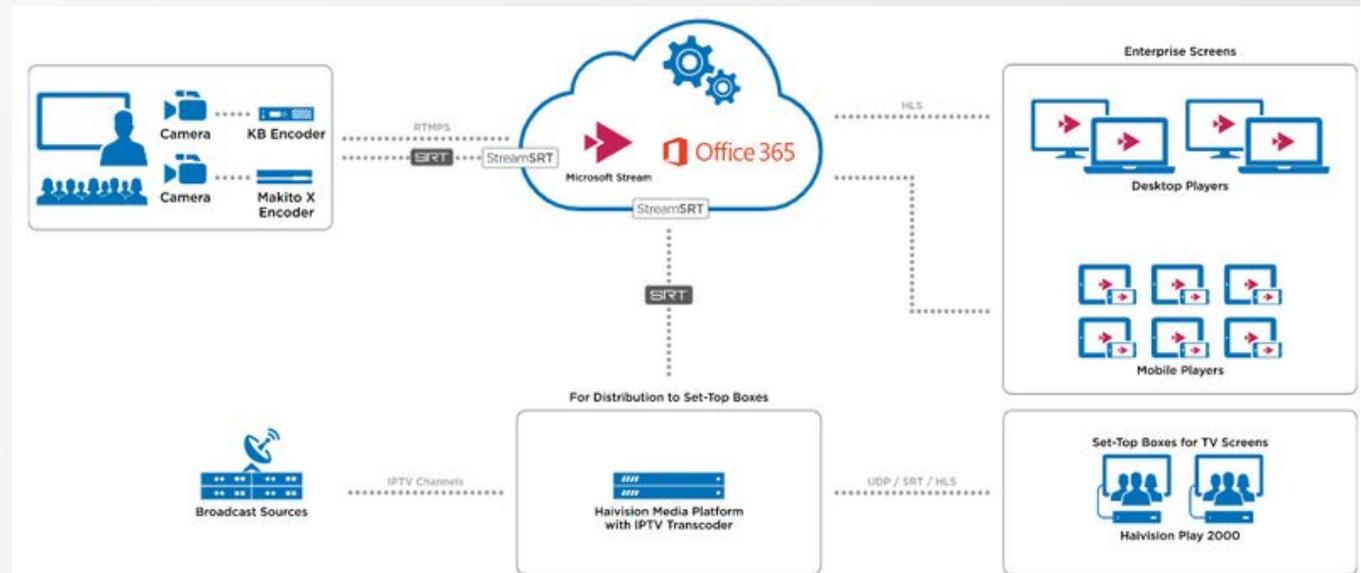


Haivision Media Platform  
Enterprise Edition | Workgroup Edition

## Real-time video streaming & networking solutions

Haivision Media Platform Enterprise keeps your employees engaged and informed with broadcast-quality video for internal communications. Deliver both live and on-demand content as encrypted video streams to all authenticated employees, whether in the office, on the road, or at home.

Haivision Media Platform Workgroup is a powerful IP video management solution, ideally suited for command and control, situational awareness, and after action reporting, featuring low latency, multi-view playback, and secure multi-site live video distribution.



# Haiivision

Connectivity & Control

Haiivision



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## Players



### InStream Players

Haiivision's desktop players and mobile application are ideal for secure IPTV, live events and remote monitoring.



### CoolSign Display Engine

Support dynamic data-driven digital signage, with up to 8 regions, tickers and full motion 1080p60 video playback, live or on-demand.



### Mantaray

Watch 1080p IPTV video on displays across your organisation with Haiivision's secure and compact set-top box.



### Makito X H.264 Video Decoder

Delivers dual channel HD video to 3G-SDI and HDMI interfaces, up to 1080p60 video. Supports ultra low end-to-end latency when paired with the Makito X encoder.

## Solutions for streaming & media management

### Gateways & Transcoders



Media Gateway

Live video streaming server can distribute video to multiple sites, or aggregate video from multiple remote locations. On-premise, cloud (AWS Marketplace and Microsoft Azure) and hybrid deployment options.



KB Transcoder

Haivision's H.264/HEVC Internet streaming transcoder can be deployed on-premise or in the cloud and supports the delivery of adaptive bitrate RTMP/HLS/MPEG-DASH cascades of up to 1080p video.

### Enterprise Video



Enterprise Video Platform

Easily distribute secure, high quality live events (like all hands and town hall meetings) and VoD content to every employee throughout your multi-site organisation.



IPTV | Furnace

A complete ecosystem to deliver live broadcast video to every desktop, monitor and digital signage player throughout your organisation.



### Secure Reliable Transport (SRT)

Integrated within Haivision solutions, SRT is a unique video transport technology that brings the best quality, lowest latency live video over any network.





# Smart solutions for complete connectivity

OmniStream | AV over IP

CLSO | HDMI & VGA Switching

Velocity | AV Control System

Avance | 4K/UHD HD BaseT Extension

HDVS | HDMI & VGA Switching & Extension

Omega | 4K, HDMI, DisplayPort, & USB-C Conferencing

Atlona offers the AV industry's only end-to-end integration solution that brings together AV distribution and control, enterprise-grade cabling infrastructure, and connectivity for end users.



Atlona OmniStream AV over IP is a flexible, scalable, and cost-effective AV distribution platform for meeting rooms, small to medium office buildings, restaurants, retail establishments, corporations, and even a campus or enterprise.



AT-OMNI-111

Single-Channel Networked AV Encoder



AT-OMNI-111-WP

Wallplate Networked AV Encoder



AT-OMNI-112

Dual-Channel Networked AV Encoder



AT-OMNI-121

Single-Channel Networked AV Decoder



AT-OMNI-512

Dual-Channel Networked AV Encoder



AT-OMNI-521

Single-Channel Networked AV Decoder



AT-OMNI-238

16 Output IP to Analog Audio Bridge



AT-OMNI-311

USB over IP System

**AT-VTPG-1000VL****Touch Panels for Velocity Systems**

- All-in-one AV control system
- 10" touch panel with contemporary styling and bezel lighting
- Integrated Velocity gateway supports one room of control for up to 24 devices and two rooms of scheduling
- Intuitive browser-based setup for fast system configuration
- Supports industry-standard, network security features and protocols

**AT-VGW-SW****Remote Configuration and Management Portal**

- Software server gateway for AV system control, room scheduling, and AV asset management
- Provides AV control for up to 20 rooms
- Designed for hosting on standard IT server infrastructure
- Access from a web browser for setup and management
- Supports industry-standard, network security features and protocols

**velocity**  
by Atlona

**Velocity's IP-based architecture allows a single, networked processor to serve multiple AV systems simultaneously, leading to overall AV system control efficiency.**

**AT-VGW-HW****Gateway for Velocity System**

- Hardware server gateways for AV system control, room scheduling, and AV asset management
- Three versions available for AV control of up to 3 rooms, 10 rooms, or 20 rooms
- Access from a web browser for setup and management
- Dual Gigabit Ethernet ports for isolating a dedicated AV LAN from the facility or corporate network
- Supports industry-standard, network security features and protocols



# HDVS Series

The ultimate AV Integration solutions for huddle rooms, collaboration and conferencing



## PTZ Cameras

AT-HDVS-CAM  
AT-HDVS-CAM-HDMI  
AT-HDVSCAM-HDBT

HD cameras with USB, HDMI, or HDBaseT video interfaces  
High performance imaging, fine detail, and color rendering with 1/2.8" low-noise, HD CMOS sensor  
Multi-element zoom lens with 10x optical zoom and a 60.9° horizontal field of view

## HDBaseT Transmitter and Receiver Kit



### AT-HDVS-150-KIT

- 3x1 switcher/transmitter
- HD video scaler/receiver
- RS-232 control
- Audio de-embedding
- 230 ft./70 m transmission

## HDBaseT Transmitter, Receiver and Scaler



### AT-HDVS-200-TX AT-HDVS-200-RX

- 3x1 switcher/transmitter
- 4K/60 4:2:0
- TCP/IP and RS-232 control
- Contact closure for screen control
- Audio de-embedding
- 330 ft./100 m extension

## HDBaseT Transmitters



### AT-HDVS-210U-TX-WP AT-HDVS-210H-TX-WP

- 2x1 switcher/transmitter
- HDMI and USB-C inputs
- Dual HDMI inputs
- 4K/60 4:2:0
- TCP/IP and RS-232 control
- Black & white trim kits included

## 4K/UHD Scaler for HDBaseT and HDMI



### AT-HDVS-SC-RX

- 2x1 switcher/receiver/scaler
- HDMI and HDBaseT inputs
- Same essential features as the AT-HDVS-200-RX, plus:
- Atlona CrystalScale™ Technology
- Pristine-quality 4K image scaling and processing



# OMEGA™

OMEGA Series is a family of switching, extension, and video processing solutions with features and technologies designed specifically for today's meeting and gathering spaces.

## Switchers

A family of compact matrix switchers designed specifically for the needs of today's small to medium-sized presentation applications.



**AT-OME-PS62**  
6x2 Matrix Presentation Switcher with USB



**AT-OME-MS52W**  
5x2 Matrix Switcher with USB and Wireless Link



**AT-OME-MS42**  
5x2 Matrix Switcher with USB and Wireless Link



**AT-OME-MS32**  
3x2 Matrix Switcher for HDMI and USB-C



**AT-OME-MH21**  
2 Input Switcher for HDMI and USB-C with USB Hub

## Transmitter

Direct connectivity for source devices with HDMI or USB-C outputs, as well as USB for web and soft codec conferencing applications.



**AT-OME-ST31A**  
3x1 Switcher for HDMI and USB-C



**AT-OME-EX-TX**  
HDBaseT Transmitter for HDMI with USB



**AT-OME-EX-TX-WP / OME-EX-TX-WPC**  
Wallplate Transmitter for HDMI with USB



**AT-OME-TX21-WP-E**  
Wallplate Switcher for HDMI and USB-C

## Receiver

Slim and compact for discreet installation, capabilities beyond receiving HDBaseT from a transmitter or switcher.



**AT-OME-EX-RX**  
HDBaseT Receiver for HDMI with USB



**AT-OME-SR21**  
HDBaseT Receiver/Scaler with HDMI input & USB



**AT-OME-RX11**  
HDBaseT Receiver for HDMI with Audio



**AT-OME-RX21 / AT-OME-RC31 (Dual)**  
HDBaseT Receiver/Scaler with HDMI input

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# AVANCE Series



The Avance™ Series of HDMI extender kits are the latest generation of reliable HDBaseT extenders for 4K/UHD AV signals.

## AT-AVA-EX70-2PS-KIT

4K/UHD HDMI Extender Kit



## AT-AVA-EX70-KIT

4K/UHD HDMI Extender Kit with Remote Power



## AT-UHD-CLSO-601

4K/UHD, 6-Input Multi-Format Switcher with Mirrored HDMI and HDBaseT Outputs



## AT-AVA-EX70C-KIT

4K/UHD HDMI Extender Kit with Control and Remote Power



## AT-AVA-EX70C-BP-KIT

4K/UHD HDMI Extender Kit with Control & Bidirectional Remote Power



## AT-UHD-CLSO-824

4K/UHD, 8×2 Multi-Format Matrix Switcher with Dual, HDBaseT and Mirrored HDMI Outputs



## AT-AVA-EX100CE-BP-KIT

4K/UHD HDMI Extender Kit with Ethernet, Control, and Bidirectional Remote Power



# CLSO Series

The CLSO Series of presentation switchers and matrix switchers addresses an array of AV switching, routing, and processing needs for presentation spaces.



**34009 | VariHite Screen Stand**

- Electronic height adjustment (VariHite™)
- Fits through standard doorways
- Mobile with lock-down heavy duty castors
- 8U 19" x 150mm deep equipment rack
- Equality act compliant for wheelchair access
- Compatible for up to 90" standard VESA mount displays
- Max lifting weight 135kg



**32007 | HUB 2**

- Small compact footprint.
- 19" 16U x 350mm deep rack.
- Vertically mount equipment with 5U x 500mm deep rack space
- Horizontally mount equipment with 16U x 350mm deep rack space



**26026 | Educator Single**

- Single 14U x 500mm 19in rack enclosure with natural convection cooling design.
- Extra 2U rack space in side cheeks of rack chassis
- Quick release rear access cover with suited keys.
- Two removable side covers for side access to rack enclosure. 1200mm worktop in black microdot with armour edging



# MIDDLE ATLANTIC®

A brand of **legrand**

## The racks great systems are built on

Rack Systems, Technical Furniture, Power & Data/Structured Cabling.

### Slim 5

#### Aggressively priced modular rack

- Shipped disassembled to reduce shipping costs
- Quick and easy assembly
- Gangable through configurable open sides (no side panels between the racks)
- Configurable front door and side panels
- Available in 2 different depths (510 / 660 mm)
- Optimum height can be selected from 8 sizes (8 – 43 RU)



### SRSR Series

#### Slide-out rotating rack system

Specify an SRSR for easy rear access to equipment connections in millwork, cabinets and flush in-wall installations. Available with a 19" or 23" useable depth, the SRSR system extends and rotates 90° in either direction, making it ideal for smaller systems.



### CFR Series

#### Cabinet frame rack

- Low profile design maximises useable rackspace
- Strong welded frame allows for in-shop integration and on-site installation
- Includes two front-to-rear lacing bars for cable dressing
- Uprights feature offset cable tie areas



### UTB Series

#### Universal TechBox

The UTB Series Universal TechBox™; is a low-profile, unique solution for discreetly mounting equipment within meeting spaces.



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B-TECH AV MOUNTS

# Safe, solid, secure

B-Tech mounting solutions cover the most common wall, ceiling or floor mounting requirements and include solutions for flat screens, projectors, speakers and specialist digital signage applications such as large scale videowalls and menu boards.

## Flat Screen Wall & Ceiling Mounts

B-Tech's range of professional flat screen wall mounts is a comprehensive collection with a variety of fixed, tilt and full motion solutions for screens ranging from 15" to 120".



## System X Mounts



B-Tech's highly anticipated System X range consists of mounting solutions for menu boards, video walls and video conferencing in a variety of different configurations. The mounting system is lightweight yet incredibly strong and has a high-end aesthetic quality which is perfectly suited to modern, contemporary commercial and corporate applications.

## Multi-Screen Videowall Mounts

Favoured by installers around the world, B-Tech are the go-to multi-screen mounting systems providers thanks to a large selection of solutions that cover almost any requirement.



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# Flat screen wall mounts

Ventry  
range

compatible for use with the latest generation of curved screen TVs using VESA® mounting patterns and supplied in colour retail packaging.

**BTV510**

## Universal Flat screen Wall Mount

- Low profile design for a close to the wall installation
- Lateral adjustment of screen once mounted
- Security locking bar to prevent unauthorised screen removal
- Simple 'hook-on' installation with all mounting hardware included



**BTV511**

## Universal Flat Screen Wall Mount - with Tilt

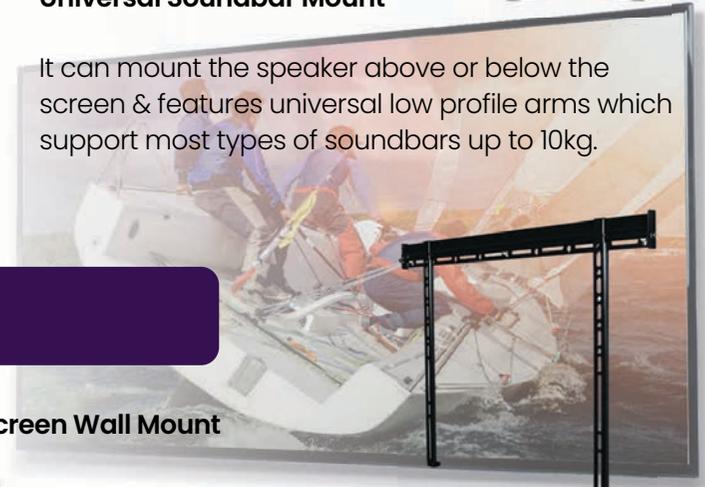
- 5 fixed tilt positions
- Lateral adjustment of screen once mounted
- Security locking bar to prevent unauthorised screen removal
- Simple 'hook-on' installation with all mounting hardware included



**BTV520**

## Universal Flat Screen Wall Mount

- Low profile design for a close to the wall installation
- Lateral adjustment of screen once mounted
- Security locking bar to prevent unauthorised screen removal
- Simple 'hook-on' installation with all mounting hardware included



**BTV521**

## Universal Flat Screen Wall Mount - with Tilt

- 5 fixed tilt positions
- Lateral adjustment of screen once mounted
- Security locking bar to prevent unauthorised screen removal
- Simple 'hook-on' installation with all mounting hardware included



**BTV914**

## Universal Soundbar Mount

It can mount the speaker above or below the screen & features universal low profile arms which support most types of soundbars up to 10kg.



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**BT8432**

### Universal Flat Screen Wall Mount - with Tilt

- Unique 'Torsion-tilt' mechanism for easy tilt adjustment
- Lateral adjustment of screen once mounted
- Levelling screws allow adjustment of screen height
- Security locking screws and Allen key to prevent unauthorised screen removal
- Simple 'hook-on' installation with all mounting hardware included



# Tilt wall & ceiling mounts

**BT8431**

### Universal Flat Screen Wall Mount - with Tilt

- Unique 'Torsion-tilt' mechanism for easy tool-less adjustment
- Lateral adjustment of screen once mounted
- Levelling screws allow adjustment of screen height
- Security locking screws and Allen key to prevent unauthorised screen removal
- Collar compatible ideal for pole mounting
- Simple 'hook-on' installation with all mounting hardware included



**BT9910**

### XL Heavy Duty Universal Flat Screen Wall Mount - with Tilt

- Designed to mount extra-large screens 65" and over
- Lateral adjustment of screen once mounted
- Adjustment screws allow screen to be levelled once mounted
- Heavy duty 4mm steel capable of supporting the heaviest screens
- Safety screws included to prevent removal of screen
- Simple 'hook-on' installation with all mounting hardware included



**BT7822**

### Heavy Duty Ceiling / Floor Mount

- For Ø50mm Poles



**BT7850  
-150**

### 50mm Poles-- 1.5 M



**BT7052**

### 50mm Accessory Collar



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# Pop out videowall mounts



## BT8310

### Pop-Out Videowall Mount - upto 700kg

Designed to make videowall installations as quick and simple as possible, this modular videowall mount can be used to create unlimited videowall configurations in both landscape and portrait format.



## BT8312

### Slimline Soft-Open Full Service Videowall Mount

Designed to make video wall installations as quick and simple as possible, this modular video wall mount can be used to create unlimited video wall configurations in both landscape and portrait format.



Screen  
Spacer

55" Screen Spacer for BT8310/BT8312  
49" Screen Spacer for BT8310/BT8312

## BT503

### Single Arm Flat Screen Wall Mount

- Easy tilt and swivel adjustment
- Features two swivel points: 180° at wall and 240° at interface
- Screen rotation allows screen to be mounted in landscape or portrait orientation. Folds flat to the wall.
- Integrated cable management. Integrated spirit level for easy wall plate levelling during installation.
- Simple 'hook-on' installation with all mounting hardware included



## BTV514

### Ultra-slim Universal Double Arm Flat Screen Wall Mount

- Ultra-slim design allows close to the wall installation when folded flat
- Easy tilt and swivel adjustment
- Features three swivel points: 180° at wall, 360° at central pivot and 240° at interface
- Lateral adjustment of screen once mounted
- Single stud mounting for easy installation



# Cantilever Swing Arm Mounts

# SYSTEM X™

## Premium mounting solutions for multi-screen applications



### BT8390 | Horizontal Mounting Rail

- Ideal for videowalls, menu boards and other multi-screen installations
- Compatible with a variety of interface arms and collar compatible accessory mounts
- Available in a variety of lengths and can be cut if necessary
- Multiple lengths can be joined together using BT8390-EXT to create longer rails
- Lateral adjustment - position interface arms anywhere along the length of the rail
- Supplied with plastic end caps for a neat and tidy finish

BT8390-  
WFK2/B



SYSTEM X --bracket to  
mount rails onto walls

BT8390-  
VESA400T



SYSTEM X - VESA 400  
Flat Screen Interface  
Arms with Tilt for  
BT8390 (Pair)

BT7052

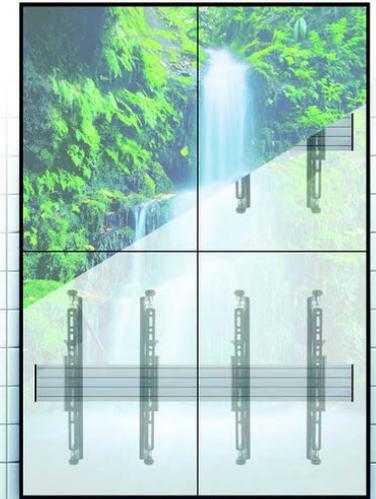


SYSTEM 2  
50mm accessory  
collar

BT8390-  
EXT



SYSTEM X - Rail  
Joining Kit for  
BT8390



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# Let's do something brilliant

- Built for breakthroughs
- Easily access tools and apps
- Write naturally and confidently
- Discover new ways to engage
- Create an infinite canvas
- Mirror screens and share work



ActivPanel®  
Elements Series  
available in  
65", 70", 75" & 86"



Cobalt Series



Nickel Series

**Promethean interactive displays for education and the workplace transform learning and collaboration.** Learning and collaboration that excite, powered by software that fuels brilliance and accessories that make the most of your investment. Transformation is a journey. Promethean is with you every step of the way with support, training and resources.

# Value added services



## Want to get more out of a product?

Midwich sales specialists can help you find exactly the right product for your customers.



## Do you want a faster online ordering service?

Our online portal allows you and authorised staff to order online using your credit account.



## Need to check your account details?

Login to your online account to check account balance, invoice history and download pricelists.

## Sales

### How do I arrange a trading account?

You can either use our online credit application form or call our sales team and request a credit application form. Subject to approval we may be able to provide up to \$5000 credit the same day.

### How do I arrange an external visit?

Please speak to your Account Manager who will be happy to advise you.

### What is the latest time I can place an order for next day delivery?

Our sales and credit teams are manned until 5:30pm, Monday to Friday. We are able (subject to stock availability and credit status) to despatch the orders that you place with us up until this time for delivery on the next working day.

## Midwich APAC

Midwich is a leading global distributor of both audio visual solutions and unified communications and services, bringing over forty years of unrivalled industry expertise. Midwich specialists are trained by the vendors themselves and are on the cutting edge of technology with a passion for the industry. We're here to work with you on developing new business opportunities, advise you on complex, multi-manufacturer projects and deliver the best result for your clients. We will work closely with you to fully understand the scope of any given project and how we can best help you. Our mission is to support you every step of the way by sharing our knowledge so you can be successful from quote to delivery.

We are available to help you from 8.30 am until 5.30pm Monday to Friday. When contacting us, please provide us with your account details and order number so we may help you even faster.



# Team Midwich Asia



**FRANCIS POH**

General Manager



**KELVIN THONG**

Business Development  
Manager



**VICTOR CHEW**

Finance & Operations  
Manager



**ROSLI HALIP**

Technical Support  
Technician

We understand the value of being brand agnostic and do not have our 'own brand' product range.

You can be 100% assured that our knowledgeable support teams will always provide totally objective advice on the best combination of products for your project.

To discuss your project requirements or arrange a product demonstration, contact [sales@midwich.com.sg](mailto:sales@midwich.com.sg) or call +65 6950 5599. [www.midwich.com.sg](http://www.midwich.com.sg)

our ~~ex~~pertise is your advantage



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