



## Overview

B-Tech AV Mounts supplied a bespoke direct-view LED mounting solution for a major broadcast installation at the **BBC Cardiff Broadcast Centre**, working in partnership with system integrator **Smart AV UK Ltd** and media specialists **Videlio Media**.

The project formed part of a studio and production environment upgrade, requiring two large, custom-shaped LED video walls to be installed with absolute precision, long-term stability and full rear-service access.



## Installation Details

Location: BBC Cardiff Broadcast Centre

Integrator: Smart AV UK Ltd

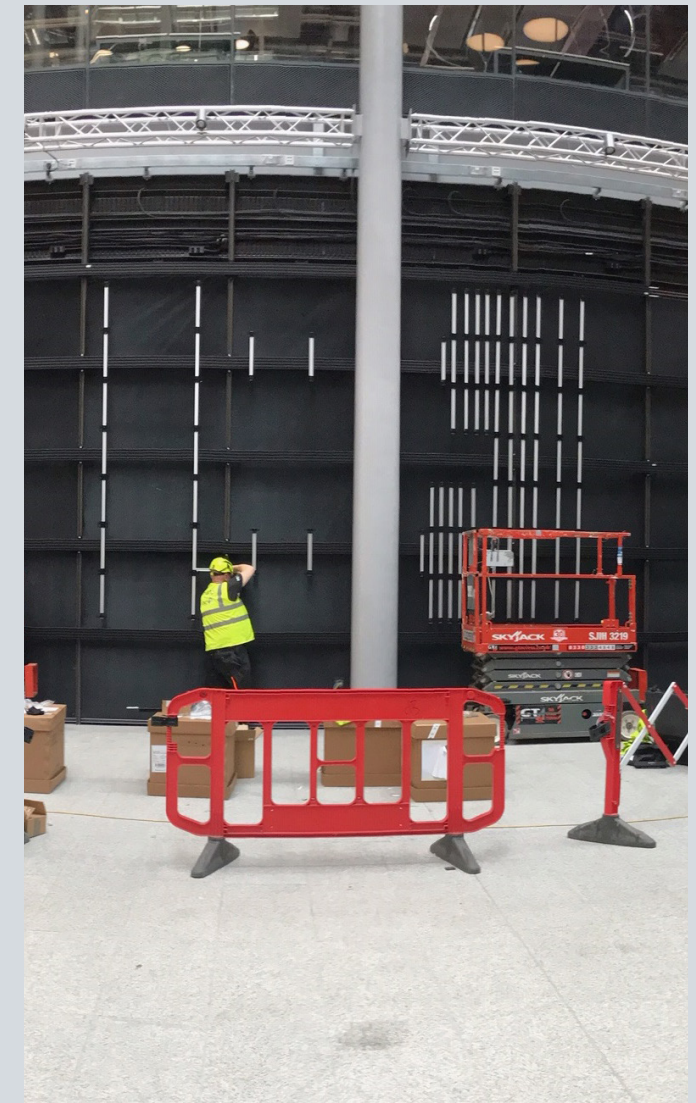
Media Partner: Videlio Media

Mounting System: B-Tech BT9340 Rear-Service LED Video Wall System

LED Cabinets: Unilumin Uslim P2.6

Total Cabinets: 174

Wall Design: Two bespoke stepped multi-tier LED wall arrays



## The Challenge

The installation comprised two large-format **bespoke stepped LED video wall arrays**, constructed from **Unilumin Uslim P2.6 500 × 500mm LED cabinets**.

Each wall featured a wide central display section with multiple extended horizontal sections positioned at different vertical levels, creating an irregular multi-tier layout that could not be achieved using standard rectangular mounting frames.

### Key challenges included:

- Supporting a total of **174 LED cabinets** across two complex wall layouts
- Accommodating irregular stepped and offset screen geometries while maintaining perfect alignment
- Integrating with a steel post wall construction (100 × 50 × 10 PFC posts)
- Providing full **rear-service access** within a live broadcast environment
- Achieving precise tolerances across long horizontal spans

## Solution

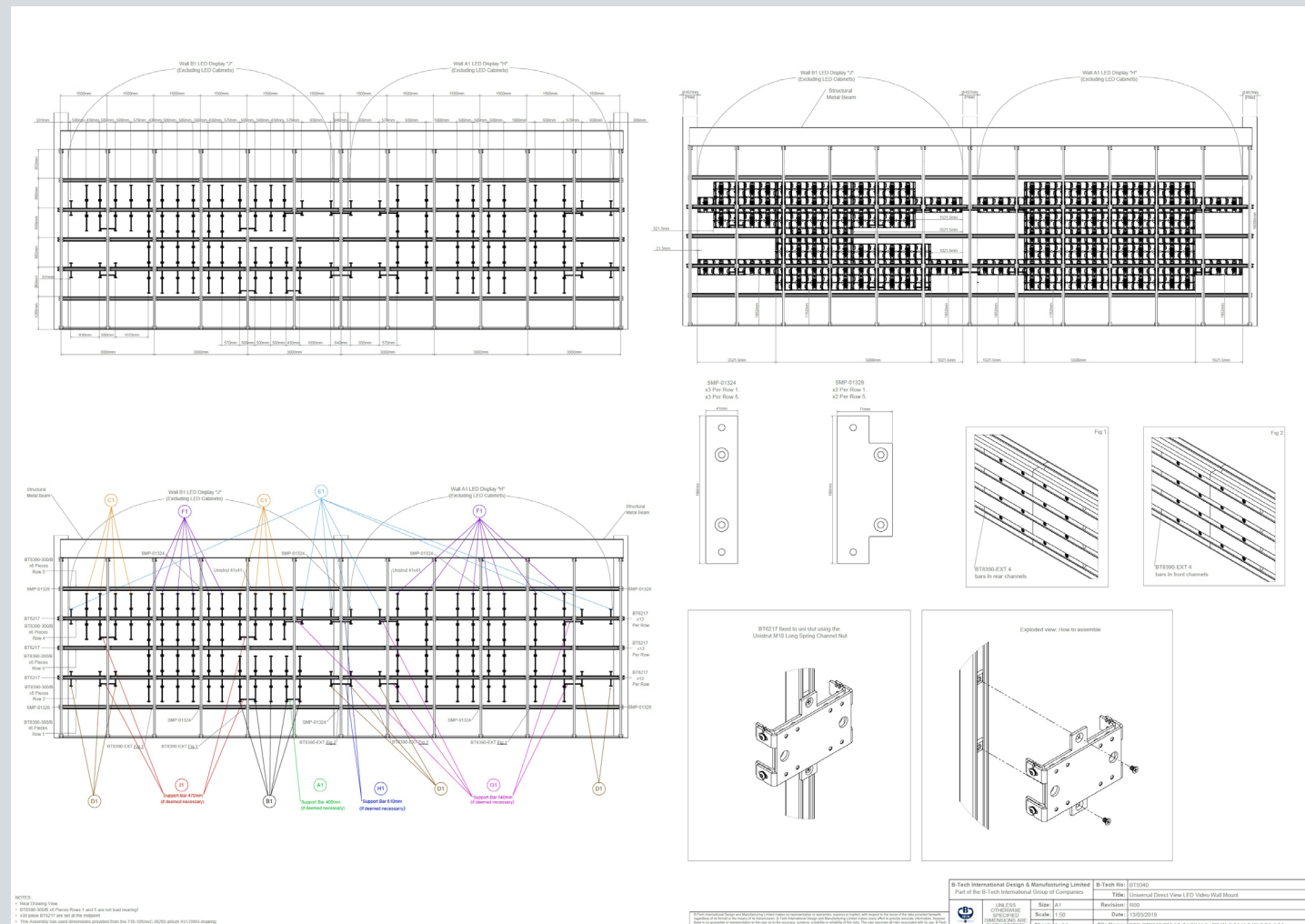
B-Tech specified and supplied a customised configuration of its **BT9340 Universal Direct View LED Video Wall Mounting System (Rear-Service)**.

The final system was designed specifically to support the Unilumin Uslim P2.6 cabinets and the bespoke stepped wall geometries.

### The solution incorporated:

- **Five full-width horizontal mounting rails (9m each)** per wall
- Precision vertical alignment rails fixed to the steel post framework
- Black anodised aluminium mounting rails (BT8390-300/B) to meet aesthetic requirements
- Rear-mount hook-on cabinet brackets with fine adjustment for accurate planar alignment
- This modular rail-based approach allowed the complex multi-section layouts to be assembled accurately while maintaining a perfectly flat front viewing surface across all display sections.

## SYSTEM XPERT



## The Result

The completed installation delivers two striking high-resolution LED feature walls that now form a central element of the BBC Cardiff broadcast and production infrastructure.

### The BT9340 system provided:

- Exceptional rigidity across long horizontal spans
- Accurate cabinet alignment across complex stepped geometries
- A clean, seamless front-of-screen appearance
- Safe and efficient rear-service access for ongoing maintenance

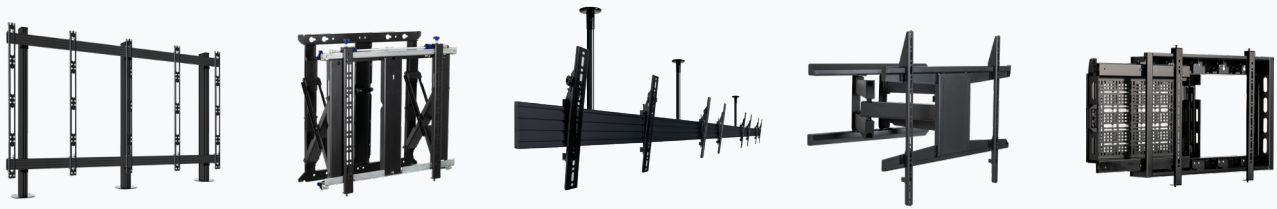
This project highlights B-Tech's capability to deliver **bespoke LED mounting solutions for complex broadcast environments**, supporting non-standard video wall designs at scale.

### Products Used

BT9340 Universal Direct View LED Video Wall Mount (Rear-Service)



## About Us



B-Tech mounting solutions cover all AV requirements ranging from small, single screens to large format displays, projectors, speakers, interactive touchscreens & UC equipment, as well as large, multi-screen LCDs & dvLED video walls, digital signage & AV storage. Designed to stringent TUV & UL safety standards by B-Tech's in-house team of engineers, our products are available as wall or ceiling mounts, desktop stands or as freestanding, mobile or bolt-down floor stands. Winners of multiple accolades including AV Awards' AV Manufacturer of the Year crown, B-Tech AV Mounts products are found in prestigious hotels, shopping malls, government facilities, corporate offices, sports stadia, restaurants, airports & conference facilities worldwide.

B-Tech offers not only one of the industry's most comprehensive product ranges, but also one of the most versatile & adaptable collections available from any mounting solutions provider.

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