CASE STUDY

UNIVERSITY OF WEST SCOTLAND

RECEPTION VIDEO WALLS

“The choice of PIPView was easy given its technical performance, thirty-two screens with twelve 4K live inputs, including audio anywhere on the wall, one word - incredible.” Says Jim O’Donnell, Chief Information Officer at UWS.

THE CLIENT

UNIVERSITY OF THE WEST of SCOTLAND

UWS

With origins dating back to 1897, the University of West Scotland (UWS) is one of Scotland's most innovative modern universities.

When UWS began planning for a new reception entrance in Paisley, they turned to industry specialist Visavvi, formerly Saville AV, for the Audio-Visual needs, who, in turn, engaged with FUTURESoftware and our PIPView video wall controller to design the technology to drive and control the main reception video wall displays.

THE BRIEF

The new reception design included a display behind the reception and a foyer display. The behind-reception display was required to be rotatable between the main entrance door and the refectory on demand.

All 16 inputs to the display controllers were to be 4K UHD with stereo audio that could be switched to the reception speakers. The majority of inputs will come from digital signage, with additional inputs from laptops and video conferencing equipment.

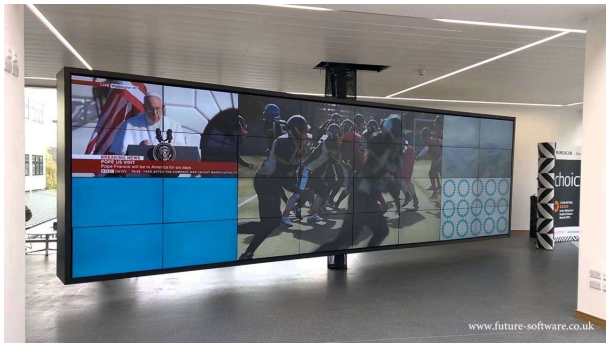
For ease of operation, the system should have pre-set layout templates which are easily selectable from a touch panel.

To maintain quality across the wall from various input sources, all screens needed to be driven at native HD resolution, with the ability to accept any input, any size, anywhere.

THE DISPLAY WALLS

The behind-reception wall consists of nine NEC 46inch screens in a 3x3 configuration, giving a native display canvas of 5,760 pixels by 3,240 lines.

The main rotating display contains thirty-two NEC 46inch screens in an 8x4 configuration, giving a native display canvas of 15,360 pixels by 4,320 lines.



Main wall in action.

https://www.youtube.com/watch?v=d4WUYe2bIqo

THE WALL CONTROLLERS

With up to 16 4K UHD inputs and a final output resolution of up to 15,360 by 4,320, the obvious choice was a FUTURESoftware PIPView BlackBIRD video wall processor.

For both walls, the PIPView BlackBIRD processor was configured for native resolution across all screens, 4K UHD inputs including audio and a set of predefined templates that could be selected via an RS232 or IP control touch panel.

Uniquely, when using 4K inputs, the PIPView BlackBIRD can control audio switching from the inputs to the audio output, thereby reducing the external component count and complications in audio delivery.

The control interface and templates allowed any input to be placed at any size, anywhere across the full native display canvas, including repeat areas of the same input.

The PIPView BlackBIRD also supports FUTURESoftware's EagleEye cloud-based remote support and management service.

PIPVIEW BLACKBIRD

MAIN CHASSIS

CPU BOARD

Processor

Intel i7, optional 2x Intel Xeon

System Memory

4GB Standard, Optional 8GB

Expansion Slots

3rd Generation PCIe switched fabric

9 or 11 slot x8—8GB/s uplink and downlink

Disk Storage

1x SSD 60GB SATA3

Optional 2x SSD RAID 1

Optional DVD/RW Combo Drive

Network Interface

Dual 10Base-T/100Base-T/1—-Base-T Ethernet

RS232

For Control

USB

2x USB 2.0 (Back Panel)

2x USB 2.0 (Front Panel)

Operating System

Windows 7 x64 Pro Embedded (WES7P)

Optional Windows 7 x64 Pro

Optional Windows Server 2012 Standard

ELECTRICAL REQUIREMENTS

Input

100-240 VAC Auto-ranging power supply 10A—5A

Line Frequency

47-63Hz

Output

550 Watt Dual Redundant

Environmental

Operating Temperature

0 to 35 DegC (32 to 95 DegF)

Storage Temperature

-20 to 70 DegC (-4 to 158 DegF)

Relative Humidity

5% to 90% non-condensing

Noise

48dB(A) up to 68dB(A); Dependent on system configuration & ambient temperature

RACK MOUNT CHASSIS 4U

Dimensions

50cm x 17.5cm x 48.2cm (L x H x W)

Weight

19-25Kg

Shipping Weight

30-33Kg

GET IN TOUCH

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