

Nuway

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Case Study

Client University of Hull

Project Wilberforce Refurbishment (27 Rooms)

Location Hull

Project Value £250,000

To facilitate the implementation of its new Field Services department, Nuway & the University of Hull have developed a sophisticated Audio Visual System, working closely with each department a system which is both easy to operate for teaching staff, and completely remote operated by support staff has been developed.

From August 2009 the University of Hull's Field Services department took overall responsibility for ICT in all centrally bookable rooms. In doing so one of the major factors was to make all rooms standard in way of operation, as well as easy to operate & as tamper proof as possible.

The system was designed to enable all aspects of hardware to be useable, without being visible to the user, this meant that teaching staff, students or the general public could not access hardware such as the PC, Presentation Switcher, Master Processor etc, in doing so this reduces the risk of operator error caused by people tampering with connections & settings, thus reducing the service calls made to Field Services. To do this USB sockets were mounted on the teaching console connected directly to the PC which is hidden away, so that teaching staff can connect memory sticks with lectures & powerpoint presentations without accessing the PC itself, the AMX system was programmed to control every aspect of the system, including the ability to power up & power down the whole system at the touch of a button.



Standardized Touchpanel Design

By using exactly the same touchpanel design for each room it means that teaching staff can operate the room without any specific training. Even rooms with slightly different specifications, such as media rooms, have the same touchpanel design, but the program is written differently, so that although it is operating different kit in a different way, to the end user everything appears exactly the same. Nuway engineers programmed the AMX system from the ground up to meet the Universities requirements.

Voice over IP intercom system

The University wanted a simple to use intercom system between every lecture theatre & the Field Services Control Room, so that if teaching staff encounter a problem they can have instant support from Field Services. Nuway installed a touchpanel in the control room & used the AMX VoIP capabilities to design & program a VoIP intercom system,

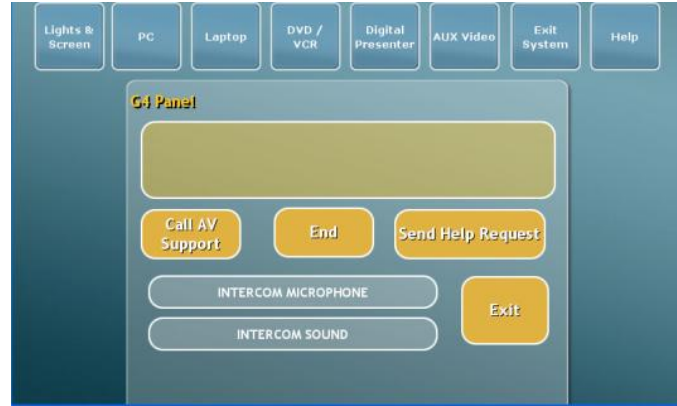


Top: A large teaching room

Top Right: The bespoke teaching console

Bottom: The standardized Touchpanel Welcome Page

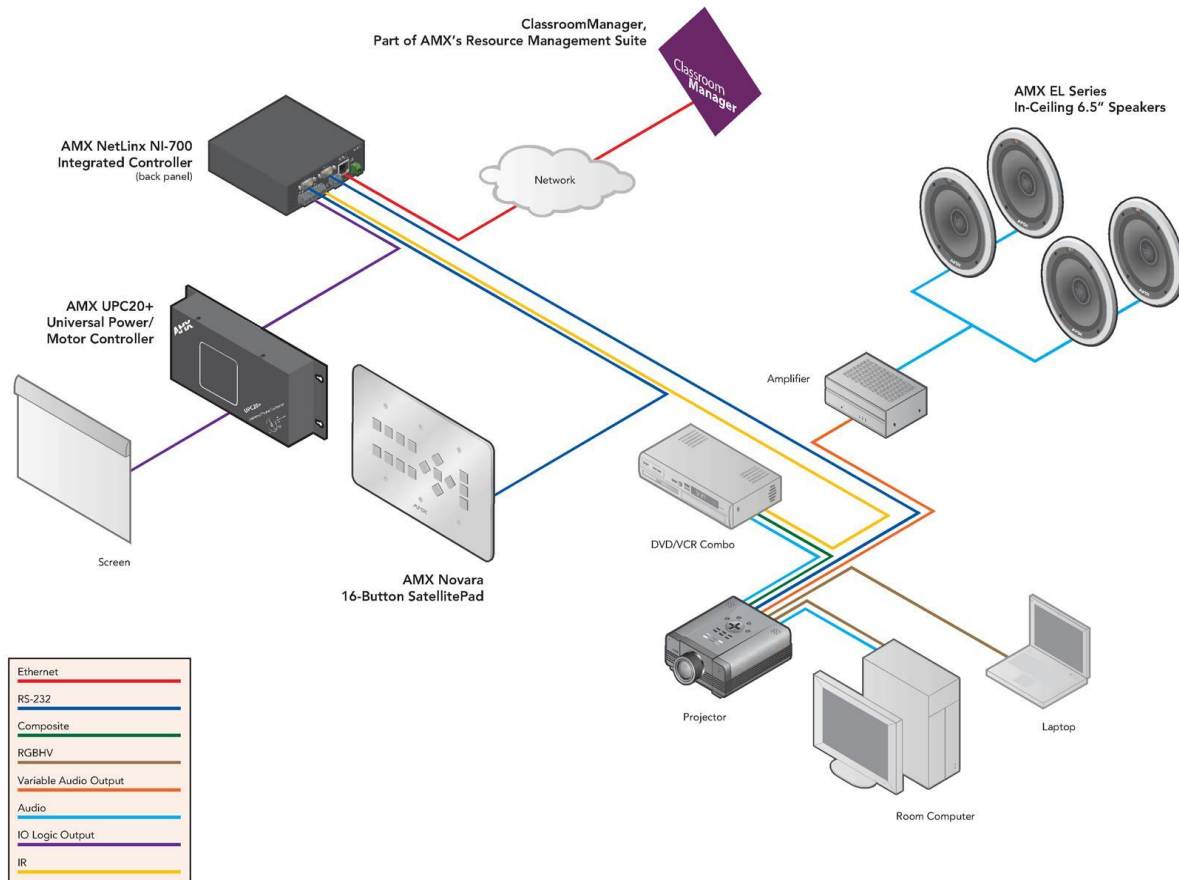
again this was designed & programmed from the ground up by Nuway in house programmers to meet the requirements of the University. Any teaching staff encountering a problem can contact the control room and be given step by step support immediately.



Lecture Theatre VoIP Touchscreen Design

Classroom Manager (Resource Management Suite). To enable Field Services to have full control over every lecture theatre on the campus from their control room Nuway installed RMS, this is a comprehensive software solution giving educators, teaching staff & Field Services staff a simple way to monitor & maintain teaching spaces & their associated electronic devices. The system reports back projector lamp hours to enable Field Services staff to be able to schedule lamp changes, as well as filter cleans, and also informs of any errors on the system, such as a visualiser that has malfunctioned, or a presentation switcher that will not power up allowing prompt attention to be given reducing room downtime.

AMX Classroom Manager System



On top of this Field Services are able to control every aspect of the system from their control room, so should a member of teaching staff call Field Services with a problem using the VoIP system they can control the system remotely, reducing downtime of the room and delays in teaching.

Lecture Theatre Manager

Classroom Wilberforce LT9 - View Devices

Device Name	Manufacturer	Model	Device Number	Syslog	Internal Log	Windows Log	Options
AUDIO	EXTRON	MVC 121	5001:5:0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	View
DIGITAL PRESENTER	SAMSUNG	SDP900DXAP	5001:2:0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	View
DVD PLAYER	SAMSUNG	DVDF1080	5001:9:0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	View
LIGHTS	LIGHTS	LIGHTS	5001:4:0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	View

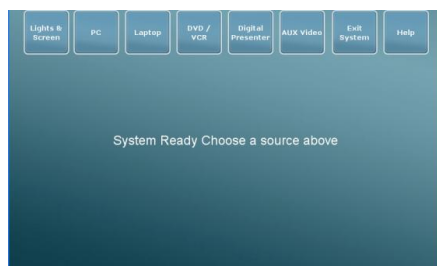
The interface also shows detailed status for each device, including 'Device Communicating', 'Device Online', and 'Filter Hours'.

An example of AMX Lecture Theatre Report Log

The system works entirely over IP, with RMS sitting on its own server, & uses some very advanced programming skills by our in house AMX programmers, but is totally separate to the Universities general IT network, so if the system needs to be disconnected at any time the IT network will not be affected.

The whole project has cost over £250,00 and provides the University with the platform to develop the rest of their 160+ teaching spaces, giving them the standardization & back up facilities required for modern day teaching.

Touchscreen Examples



Start Up Screen



Lighting Control Screen



Help Request Screen

Nuway

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