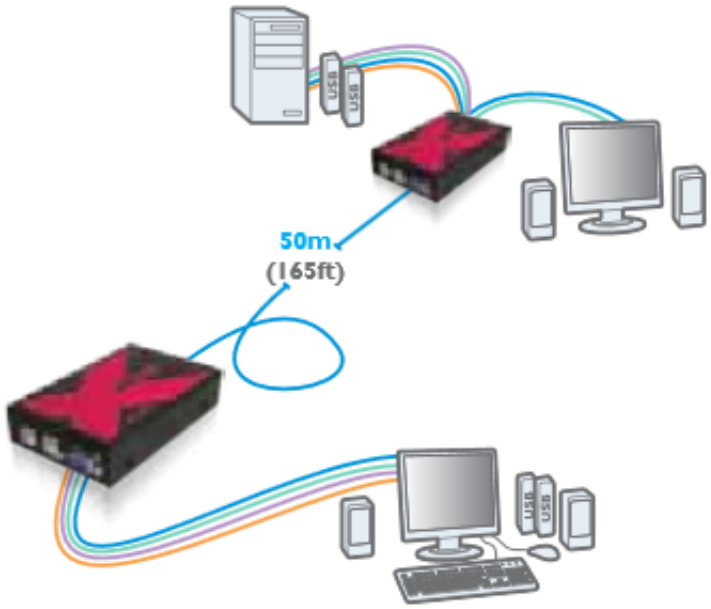
Odysseum Köln

Odysseum Köln, an interactive museum featuring X50 KVM extension to enable hands on learning and discovery.



CHALLENGE

Odysseum was built in 2008 by the SK-Foundation CSC Cologne Science Center. The Science Adventure was designed with the aspiration of attracting the younger generations to investigate science, making it fun and enjoyable.

The centre has over 200 hands on exhibits in 5 themed worlds which are all designed to intrigue the mind. The exhibits include cutting edge technologies such as microscopic cameras; movement sensors; touchscreens and webcams.

These all add to the interactive experience, but to achieve this they all require a faultless connection to the media room. There are 3 media rooms in the whole centre and these feed all 200 exhibits.

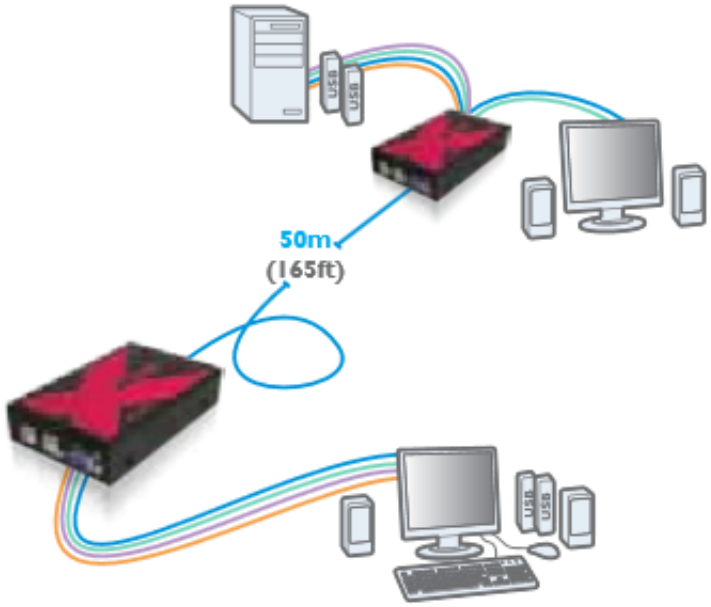
Due to the distance between the exhibits and the media rooms; an extension solution had to be found. A long cable connecting each machine was not going to give a signal reliable enough to cover the long distance required. Most of the exhibits have to have absolute minimal signal latency for the user to be able to interact successfully.

SOLUTION

The setup of the centre resulted in a large distance between the media rooms and the exhibits, requiring the extension of standard PC communication protocols, mainly USB.To overcome this, the SK-Foundation CSC decided to use AdderLink X50s in their setup, enabling high quality video transmission and USB extension to the exhibits in the main visitor centre.

Odysseum also had additional challenges with the touch screens as they have a serial connection which requires a continuous signal. The X50s were able to support this while still maintaining a high resolution video output and full USB functionality.

The AdderLink X50 provides sharp, bright and ultra high resolution video over a VGA interface and ensures transparent USB compatibility regardless of the computer being controlled or the peripherals being extended.



RESULT

The centre’s interactive exhibits are essential to the everyday attraction of the centre. They needed a solution that was effective but also within budget as the foundation had limited monetary resources. The X50s fitted their need perfectly.

The AdderLink X50s are now running constantly in this highly popular Science Adventure, enabling responsive interactive media installations filling more than 7,500 square metres.

Dr Frey from the foundation said “Adder was recommended to us by our design company. We are a modern science centre and the X50s were fundamental to our technical solution.

The Adder Berlin team were very helpful and we would be keen to use them again should we need more KVM solutions in the future”.

The SK-Foundation CSC used a local ADDER Distributor for Germany - BellEquip GmbH to source the X50s. BellEquip are specialist KVM distributors in Germany and have been working with Adder Technology for many years.

ABOUT AdderLinkX50

AdderLink X50s have been designed for use in applications where computers can have USB peripherals including keyboards and mice, high quality video and audio control extended up to 50m (150 ft.) across CAT5 or higher UTP cables. The AdderLink X50 provides sharp, bright and ultra high-resolution HD video over a VGA interface and also ensures transparent USB compatibility regardless of the computer being controlled or the peripheral being extended.

FEATURES • Fully transparent low/full speed USB • Video		

performance • Video compensation • True DDC Emulation • Fully platform independent • Digital audio • Dual Access • Extended common mode input range • AdderLink X50-MultiScreen • High density rack mount option		