

Lion Travel Successfully Installs ATEN Media Matrix Solution

Highly flexible installation transmits multiple multimedia sources over long distance to multiple monitors at different locations, vastly increasing system integrity and management efficiency



Customer: Lion Travel

A forerunner in Taiwan's tourism industry, Lion Travel Group, was established in 1977 with headquarters located in Taipei. The tourist routes offered include Europe, America, Africa, Australia and New Zealand, China and elsewhere in Asia, making Lion Travel an industry leader, with the greatest number of tour groups. Lion Travel Group has a total of 67 physical service locations spread throughout America, Oceania and Asia, as well as an online website, providing real-time, uninterrupted service.

Challenges

- ♦ To transmit various multimedia source signals over long distance to monitors on different floors.
- ♦ To transmit multimedia content from multiple computers to the digital signage installation located in the office corridors, and ensure easy switching between multiple sources.
- ♦ In response to the establishment of the new mass communication division, there is a need to transmit different multimedia sources to the TV wall in order to monitor the tourism programs of other channels.
- ♦ Since there are many types of multimedia source, the solution must efficiently integrate different devices, and flexibly switch between various multimedia sources.

Solution

- ♦ **VM0808T x 1**
8x8 Cat 5 A/V Matrix Switch
- ♦ **VE300T x 4**
A/V Over Cat 5 Transmitter
- ♦ **VE300RQ x 9**
A/V Over Cat 5 Receiver with Deskew
- ♦ **VE022 x 9**
Mini Cat 5 A/V Extender
- ♦ **CS74E x 1**
4-Port PS/2 KVM Switch

Benefits

- ♦ **Supports various multimedia input/output source signals and long distance transmission**
 - Multiple source signals are transmitted and displayed on different monitors through ATEN's Media Matrix Solution.
 - Transmitting multimedia signals through the Cat 5e/6 cable allows a maximum transmission distance up to 300 meters.
- ♦ **High compatibility, easy installation**
 - Able to connect to various types of multimedia devices, such as PC and video recorders, and transmit diverse multimedia content.
 - Equipment installation is easy; Cat 5 cable connection can greatly simplify the cabling process.
- ♦ **Easily switch between multimedia sources**
 - The digital signage content can be easily switched by using the OSD menu.
 - The KVM switch integrates all multimedia source devices and enables easy switching between them, making it convenient for administrators to monitor the operation status in real-time.

↓ Challenges

To create a stimulating office environment, Lion Travel installed a total of six TVs in public corridors on the fifth floor, and three TVs in the open conference area of the same floor – these TVs are used to broadcast scenic landscapes and tourism videos. Since the multimedia source devices are located in the server room on the sixth floor, the company needed a solution that can transmit various multimedia signals over long distances to a number of monitors.

In addition in 2011, Lion Travel established a new mass communication division that actively develops original tourism programs. To collect more tourism data, Lion Travel specially installed a 3x3 TV wall composed of nine monitors on the fifth floor. The company also applied several Set Top Boxes (STB) and video recorders to encode the STB signal through the video recorder and transmit it to the TV wall. The idea is to broadcast tourism programs from other channels at all times. As the STBs and video recorders are located in the server room on the sixth floor, and in order to efficiently deliver the signals across different floors, Lion Travel needed a video extender solution that is able to transmit signals steadily over long distances to the TV wall.

With quite a large number of various multimedia source devices, Lion Travel needed a solution to integrate them, allowing administrators to easily switch and access the source devices, and effectively monitor the video display status of each device.

Solution

ATEN Media Matrix Solution



VM0808T
8x8 Cat 5 A/V Matrix Switch



VE300T
A/V over Cat 5 transmitter



VE300RQ
A/V over Cat 5 receiver
(with RGB Deskew function)

The ATEN Media Matrix Solution combines the VM0808T A/V Matrix Switch along with the VE300T transmitter and VE300RQ receiver. The VM0808T can receive a maximum of 8 sets of multimedia source signals and transmit them to 9 display monitors. Using Cat 5e/6 cables for connection, the maximum transmission distance can reach up to 300 meters. Lion Travel applied the Media Matrix Solution to transmit four sets of multimedia source signals from the server room on the sixth floor to nine monitors set up in the public areas on the fifth floor.

VE022 Mini Cat 5 A/V Extender

The VE022 uses Cat 5e cables to extend the distance between the source device and display monitor up to a maximum of 150 meters. Lion Travel installed nine sets of VE022, successfully transmitting the multimedia signal from the video recorders in the server room to the 3x3 TV wall. The VE022 is a compact, convenient and economical addition to the A/V setup.



VE022
Mini Cat 5 A/V Extender

CS74E 4-Port PS/2 KVM Switch

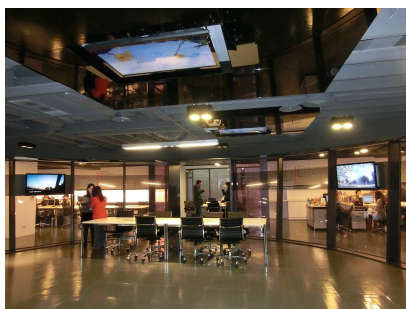
The CS74E is able to connect all the multimedia source devices, including computers and video recorders. It allows administrators to easily switch between the devices through the front panel pushbuttons or hot keys, as well as monitor the video content of each device from a single display monitor to ensure that all the video outputs are correct.



CS74E
4-Port PS/2 KVM Switch



Benefits



The Media Matrix Solution can transmit multiple sets of multimedia source signals over long distance to display monitors on various floors, and simultaneously maintain high A/V quality

Lion Travel set up the ATEN Media Matrix Solution to transmit four sets of multimedia source signals from the server room on the sixth floor to the nine monitors installed on the fifth floor. Video resolutions of up to 1920x1200 are supported, and to maintain high video quality, the V300RQ is equipped with ATEN's exclusive Deskew function that corrects color phase signals and timing errors that occur over long distance transmissions. In addition, the VM0808T provides a number of convenient ways to access the source devices: via the front panel pushbuttons for local operation, the browser-based GUI, and Telnet for remote control to increase the management efficiency and operation convenience.

The VE022 mini extender is compact and easy to install, steadily extending the signal transmission distance

In order to transmit STBs signals from the server room on the sixth floor to the TV wall on the fifth floor, Lion Travel installed ATEN VE022 mini A/V over Cat 5 extenders to extend the transmission distance. By using Cat 5e cables to connect the transmitter and receiver, the VE022 not only eliminates the bulky VGA cables, but also transmits the signals up to 150 meters. The VE022 supports video resolutions of up to 1920 x 1200. With the adjustable gain control function,



administrators can manually adjust signal strength to compensate for distance. In addition, the VE022 is compact and its size allows it to be easily installed on the wall behind the TV installation, vastly simplifying the cabling process and saving space.

Easily connect and switch between multiple types of source devices through CS74E to ensure correct video output

The multimedia source devices located in the server room includes a PC that supports four sets of multimedia signal outputs, eight STBs, and two video recorders – in which one recorder is responsible for the encoding process of the STBs, while the other is for backup usage. In order to efficiently monitor the video output of different devices and simplify the management process, Lion Travel used the CS74E KVM switch to connect the PC and the video recorders. Administrators can switch between different devices through the front panel pushbuttons, as well as monitor the video content from a single display monitor to ensure that all the video outputs are correct.