CASE STUDY:

SSB: Buses and Trams Always in View

The video wall consisting of twelve 67" LED-back-projection cubes from the Reutlingen manufacturer eyevis supports the work in the traffic control centre of the Stuttgart Straßenbahnen AG (SSB). The 8.76 m wide und 1.64 m high wall displaying 48 live camera images makes possible the monitoring of the whole public transport network and a swift, coordinated response to any disruption of operations or dangerous situations.

In the SSB control room all the communication threads of the bus and tram transport companies of the SSB commuting area in Stuttgart converge. Around 450 vehicles and more than 900 kilometres of routes are monitored and coordinated from here, around 500,000 passengers safely delivered to their destinations. On the day shift there are always six SSB staff present in the centre, during the night always two.

Quick and reliable, the new monitor wall supplies the employees of the traffic control centre with a complete picture of the network. So that the SSB-personnel have continuous access to live images from all routes of the network, the wall is in operation 24 hours a day and seven days a week. On the wall not only the live images from more than 300 digitalised IP-security cameras are shown. In addition a satellite tuner can be activated to show TV-images. In a crisis the technicians can in this way receive additional information from news broadcasts. In the near future it is planned that the radiograph location plan of all SSB routes, generated by the geoinformation system Geotrams will also be on the screens. Every stop will be indicated on the map.

The SSB and the expert commissioned from the Stuttgart firm, PKE Deutschland GmbH, had a detailed conception of which criteria the new wall should fulfil. In order to reduce the frequency of periodic maintenance, for instance, a long lifespan of the presentation technology was essential. The bezels between the active image area of the individual displays should be thinner than one millimetre, so that content could be spread over several screens. Since in the course of a working day various members of staff would access the wall, it should also be possible to partition the sources of the media wall as needed. In addition, so that the smallest detail of the camera shots could be displayed, it was necessary to have each display with a 16:9-width-to-height ratio and Full-HD-resolution.

These requirements were met by the eyevis LED-rear-projection cubes, the graphic controller from the netPIX series and the extra eyeCON wall management software. The rear-projection technology of the display-cubes, for instance, prevents burn-in of static image content on the screens. This technology also guarantees high contrast values and long lifespan of the illumination technology with no loss of colour quality. The flicker-free image presentation on the displays without rainbow effects also allows - even in 24/7-operation - the ergonomic and less tiring observation of the displays for the SSB-employees. The essential core of the large screen system for the management of the incoming graphic and video signals is the netPIX-Controller. Thanks to multiple entry points it can receive many different types of signal and convert them for presentation on the wall. As a precaution against system failure it is also fitted with redundant components.

INSTALLED PRODUCTS

- 12× **EC-67-LHD-CP** (67" DLP® Cube with LED rear Projection and Full HD Resolution)
- 1× **NPX-4800R-D30-G1.0** (High-end Graphics-Controller)
- 1× **ECS-800R-G2.0** Server
- 1× **eyeCON Wallmanagement Software V4** with Capture Module

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