

AVIT Control at the Fraunhofer Institute

An uncommon use of AVIT Control in an application of the Fraunhofer Institute for Industrial Engineering and Work Organisation in Stuttgart: The Fraunhofer Competence Center Human-Computer Interaction is engaged in evaluation research, the method development for usability of application solutions in the sector of usability engineering as well as the development of innovative user interfaces. The originators are the industry, public responsables or the European Union.



Task

Quotidian utilisation scenarios in the residential sector and at a PC user station are analysed scientifically with probands in a test laboratory within the framework of a current research project. In order to enable the probands to act realistically, their reactions and actions are registered by means of audio-visual monitoring and analysing systems. High resolution cameras and eye tracking systems are used. The laboratory itself is equipped with all current AV systems and IT hardware. All these systems need to be controllable externally and connected interactively.

Solution

Gebert Medientechnik in Denkendorf has realised this solution with AVIT Control. A 15" desktop touch panel as well as a controller in the form of a box PC and the necessary IP bus devices for the control of the individual units have been installed in a separate control room. The control software Stardraw Control 2007 is used. The control room is equipped with audiotechnical products by Sennheiser and a digital video mixer by Yamaha. The VGA signals can be registered in parallel and monitored on three high-resolution flat screens. An external monitoring of the experiments over IP network is possible by means of an additional video server.

Three independently controllable HD cameras and an eye tracking system are installed in the laboratory room. The room is equipped with a video projector, the common audio-visual equipment of a living space or a home cinema as well as a PC working space. In addition, a Noldus camera captures how



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intuitively the user deals with mobile devices (PDA, iPod, iPhone, remote control, etc.). The camera signals are transmitted wireless to the video server. Currently, an iPod touch as a control-section is added to the AVIT system. This is an additional feature that the scientists particularly appreciate.

AVIT crosslinks all existing units with its control and thus allows a complete recording of all actions to be registered and the Institute to complete their scientific order in an unprecedented complexity. According to the carriers, the AVIT solution is particularly appreciated because all Windows applications are completely available and because the system is running extraordinarily steadily. A convenient side effect was that the costs did not exceed the very limited budget.

Facts

- End customer:** Fraunhofer Institut für Arbeitswirtschaft und Organisation, Stuttgart
- Integrator:** Gebert Medientechnik, Denkendorf
- AVIT control-sections:** 15" desktop touch panel, iPhone
- Prices:** Please refer to the latest price list
- Further information:** [AVIT im COMM-TEC Web](#)
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