Innovationen

Intelligent monitor for intensive care units

Contactless screen reduces the risk of spreading pathogenic germs – Gestures and voice commands

Every second counts in the in-tensive care unit and the right decisions have to be made quickly in emergencies. Fraunhofer HHI has developed an intelligent monitor in order to optimise processes in a hospital's most sensitive unit. It provides a clear view of the data from the connected medical devices and prevents false alarms. Contactless screen operation from the distance using gestures and voice commands reduces the risk of spreading pathogenic germs.

Crucial information

The monitor developed in the "Leitwarte" (control room) joint

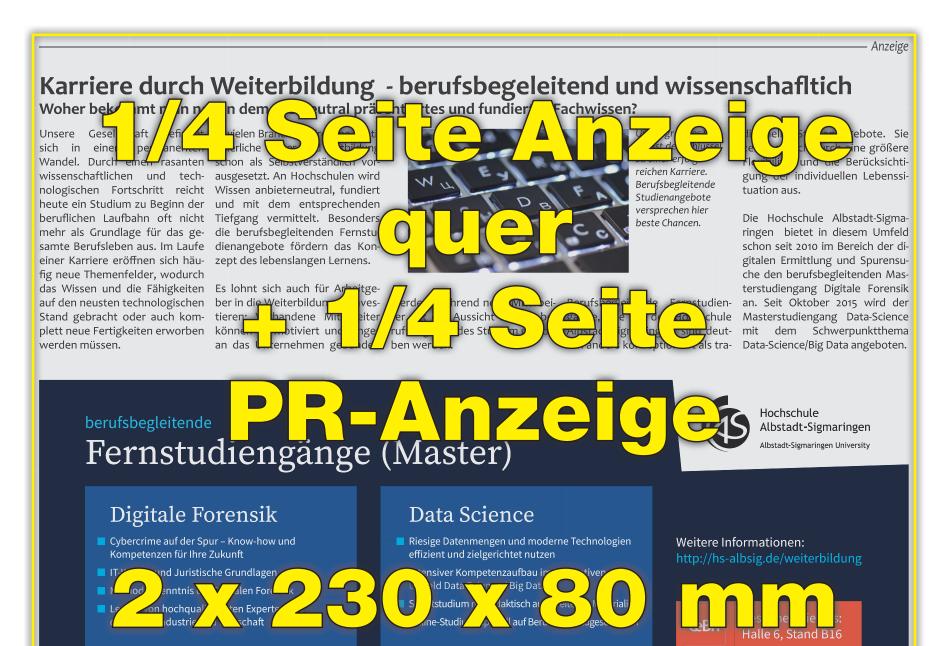


An important benefit of gesture control: Doctors and nursing staff do not have to touch the equipment directly. Photo: Fraunhofer HH

project quickly provides doctors of intensive care patients. The hospital's information systems. also suitable for mobile monitors and nursing staff with crucial in- screen has interfaces to the medi- Web-based programming of the such as tablets. An important formation about the vital signs cal devices in the room and to the user interface ensures that it is benefit of gesture control: Doc-

tors and nursing staff do not have to touch the equipment directly. Three different cameras and a microphone sample the space in front of the monitor. The integrated Fraunhofer HHI software analyses the video data to determine the presence of a person, how far the person is away from the screen and which movements are being made. This means a video call for example can be started with pre-programmed gestures.

CeBIT visitors can experience the medical monitor to improve hygiene and usability in the intensive care unit from March 14 to 18 at CeBIT in Hanover, Germany. Fraunhofer HHI is presenting the Proxemic Monitor at the Fraunhofer joint exhibition booth in hall 6, exhibition booth B36.



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