

Press Release

Erlangen/Barcelona
February 15, 2011

Live and in HD: Fraunhofer IIS and Nokia Siemens Networks to Showcase New Form of Video Production

Visit us at Mobile World Congress,
Barcelona, February 14–17, 2011
Fraunhofer Booth: #E41, Hall 2

Sample our cameras first-hand at the
Nokia Siemens Networks Booth: #C01, Hall 8

The Fraunhofer Institute for Integrated Circuits IIS and Nokia Siemens Networks are collaborating to shape the future of video transmission. Pooling their expertise in camera design and cellular networks, they have made it possible to produce live outside broadcasts in HD quality.

Visible from a distance, satellite trucks from major TV networks are a sure sign that some large event is being covered live. Outside broadcasting has traditionally depended on these vehicles, which transmit video data via satellite to the studio – a complex and expensive process that many smaller TV stations and web portals cannot afford.

Working in conjunction with Nokia Siemens Networks, Fraunhofer IIS has developed a new form of outside broadcasting which could fundamentally change the global media landscape: IIS scientists have further refined a Fraunhofer-developed camera technology which has been successfully trialed in numerous sports broadcasts. Equipped with an integrated compressor, the next-generation MicroHDTV camera enables very high quality real-time video transmission using cellular networks. An added advantage is that, thanks to its small size, the camera can be used anywhere, including cramped or awkward environments.

Through its fourth-generation wireless technology, Nokia Siemens Networks is creating the basis for HD video transmis-

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sion. Long Term Evolution (LTE) will provide mobile networks with sufficient bandwidth to handle the necessary volumes of data. Using globally standardized networks, it will then be possible to transmit live video data to a television studio or the Internet directly and without delay. As well as boosting transmission speeds, the new collaboration between Fraunhofer IIS and Nokia Siemens Networks will also help to dramatically reduce costs, as the technology uses existing infrastructure. This will allow even small, local TV stations to produce live outside broadcasts, including 3D video content.

The partners will present the new generation of outside broadcasting technology to the public at Mobile World Congress 2011 in Barcelona. Visitors to Booth C01 in Hall 8 will have the opportunity to experience the new possibilities of live outside broadcasting while going around a racetrack in a remote-controlled car equipped with a 3D camera.

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About Fraunhofer IIS

Founded in 1985 the Fraunhofer Institute for Integrated Circuits IIS in Erlangen, today with more than 750 staff members, ranks first among the Fraunhofer Institutes concerning headcount and revenues. As the inventor of mp3 and co-inventor of the MPEG 4 AAC audio coding standard, Fraunhofer IIS has reached worldwide recognition.

It provides research services on contract basis and technology licensing.

The research topics are: Audio and video source coding, multimedia realtime systems, digital radio broadcasting and digital cinema systems, integrated circuits and sensor systems, design automation, wireless, wired and optical networks, localization and navigation, imaging systems and nanofocus X-ray technology, high-speed cameras, medical sensor solutions and supply chain services.

The budget of more than 90 million Euro is mainly financed by projects from industry, the service sector and public authorities. Less than 25 percent of the budget is subsidized by federal and state funds.