

PRESS RELEASE

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Fraunhofer IIS announces integration of its lightweight coding technology into IHSE KVM extender

Erlangen, Germany/Las Vegas, USA, April 13, 2015 – NAB Show 2015, center hall, booth C 8931: The Fraunhofer Institute for Integrated Circuits IIS announces the integration of its lightweight coding technology LICI into the KVM (key-board, video, mouse) extender of its partner IHSE GmbH, a leading developer and manufacturer of advanced KVM devices. LICI enables video transmission over data lines with limited bandwidth without frame drops or sacrificing quality.

The Fraunhofer Institute for Integrated Circuits IIS presents its lightweight coding technology LICI in a first implementation together with a German manufacturer of KVM devices. The LICI codec enables the adjustment of high-definition and ultra-high-definition video streams to the available infrastructure and bandwidth without sacrificing either resolution or dynamic range. So even if these images are transmitted to external equipment using standard connection such as Ethernet, HD-SDI or Channel-Link for example, this will guarantee an optimum throughput without problems like dropped frames during the transmission. Even for long-distance transmission of the video signals from a server to several monitors the LICI codec allows bit rate adjustments to the available bandwidth at low latency. This is important especially when monitors are connected directly to a computer, low latency is crucial, since a person interacting with a computer expects any change to be immediately displayed.

“The integration of our coding technology in the KVM extender of IHSE GmbH is a very important implementation that illustrates perfectly the potential of the LICI codec inside a professional broadcast and post-production environment,” says Wolfgang Heppner, manager of the group »hardware and devices« at Fraunhofer IIS.

IHSE as a leading developer and manufacturer of advanced broadcast and post-production devices, especially renowned for professional KVM technology will show and demonstrate their next-generation KVM extenders with integrated Fraunhofer IIS coding technology at NAB in Las Vegas. “The challenge for professional KVM technology is driven by always higher demands of 4K image data transfer for applications with multiple monitors but no higher bandwidth or special cable transmission. Therefore, we chose Fraunhofer IIS as our development partner for image coding that enables us to offer new products that meet these requirements,” states Enno Littmann, Managing Director of IHSE GmbH, Oberteuringen.

Head of Corporate Communications

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The technology integration will be shown at NAB Show 2015 at the Fraunhofer IIS booth in the Center hall C 8931 and at IHSE South Lower halls SU12716.

The **Fraunhofer-Gesellschaft** is the leading organization for applied research in Europe. Its research activities are conducted by 66 institutes and research units at locations throughout Germany. The Fraunhofer-Gesellschaft employs a staff of nearly 24,000, who work with an annual research budget totaling more than 2 billion euros.

Founded in 1985, **Fraunhofer Institute for Integrated Circuits IIS** in Erlangen, Germany, ranks first among the Fraunhofer Institutes concerning headcount and revenues. As the main inventor of mp3 and universally credited with the co-development of AAC audio coding standard, Fraunhofer IIS has reached worldwide recognition. In close cooperation with partners and clients the Institute provides research and development services in the following areas: Audio & Multimedia, Communications Systems, Energy Management, IC Design and Design Automation, Imaging System, Medical Technology, Non-destructive Testing, Positioning, Safety and Security Technology, Sensor Systems plus Supply Chain Management.

More than 830 employees conduct contract research for industry, the service sector and public authorities. Fraunhofer IIS with its headquarters in Erlangen, Germany, has further branches in Dresden, Fuerth, Nuremberg, Coburg, Deggendorf, Ilmenau, Wuerzburg, Bamberg and Waischenfeld. The budget of 108 million euros is mainly financed by projects. Less than 25 percent of the budget is subsidized by federal and state funds.

Detailed information on www.iis.fraunhofer.de/en.