



**Fraunhofer**

IIS

FRAUNHOFER INSTITUTE FOR  
INTEGRATED CIRCUITS IIS

# **LICI<sup>®</sup> – LIGHTWEIGHT IMAGE CODING**



## **Lici® – Lightweight image coding for Video over IP and media contribution**

The Lici® codec developed by the Fraunhofer Institute for Integrated Circuits IIS adapts image data streams to the available communication infrastructure and bandwidth without high image resolution or dynamic range enhancements falling by the wayside. The Lici® codec allows image-by-image, lossless transmission of high-resolution images with compression ratios of 1:2 to 1:6. It also features extremely low latency, high throughput and requires little logic to implement. That makes it possible to integrate the Lici® codec into existing, programmable modules or utilize low-cost modules. Lici® is a cost-effective solution for image processing and transmission systems used in professional production. It is also ideal for use in cameras and multimedia applications.

- Mezzanine compression, up to lossless
- Low latency
- No frame drops
- RGB/YCbCr or raw data compression
- 2k/4k/8k possible or higher frame rates at 30/60 Hz
- 12 bit color depth, suitable for HDR monitors
- Production level IP cores available for Xilinx and Altera FPGAs

Licensing conditions can be sent on request.

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