

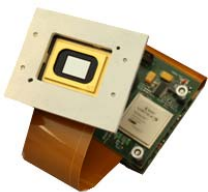
Texas Instruments and ViALUX at LASER World of Photonics



DLP® micro-mirror technology of Texas Instruments has been presented at the Munich trade show on LASER World of Photonics. ViALUX as a qualified DLP® Design House Partner was proud on hosting the Texas Instruments DLP® Catalog group at the joint booth on the Munich fair ground. Latest DLP® development platforms were demonstrated in live product displays. ViALUX has put the focus on the DLP® Discovery™ 4100 high-performance DLP® platform. The versatile

ViALUX Production Board **V4100** and the **ALP-4** Controller Suite were combined with powerful **LED-OM** light sources and optics solutions that are ready for application for both, proof of concept and OEM production units.

V4100 enabling new DLP® product design



Designed as an OEM component for use in customer products, the V4100 DLP® production board of ViALUX proved reliable in 400 MHz operation and is working successfully in the field. The small footprint allows flexible device design. 43 690 images can be stored in the 32 Gbit on-board memory and displayed at a rate of 22 727 binary XGA patterns per second. Image scrolling and lossless compression are implemented for efficient use in industrial exposure tasks. The V4100 is also available for UV and NIR application.

ALP-4 integrates HLD Digital LED controller



Supplying up to 24 A current, the ViALUX HLD driver enables DLP® applications for use with advanced high-power LED light sources including PhlatLight photonic lattice technology of Luminus Devices Inc. The HLD digital LED driver is integrated in the ALP-4 Controller Suite API software library. Additional I²C devices are supported in the API interface giving access to temperature sensors or customer defined devices.

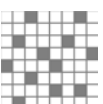
LED-OM with extended spectral range



ViALUX offers the high-power PhlatLight LED devices packaged with the HLD driver and integrated into efficient heat sink solutions. In addition to the visible range, UVA systems are available at 388 nm, 400 nm, and 405 nm. Key specifications are 10 W output from 12 mm² emitting area, and enhanced forward emission matching DLP® etendue requirements.

DLP® Conference at Photonics West 2012

ViALUX is pleased to support the upcoming DLP® conference in San Francisco and we invite you to [present your application](#) describing the latest achievements of your recent research and development with DLP® Discovery™ and related technologies. Please find the **Call for Papers** details below.



Emerging Digital Micromirror Device Based Systems and Applications IV

Conference MF109

This conference has an open call for papers:

[See submission guidelines for Authors & Presenters](#)

[Submit an abstract](#)

Conference Chairs

Michael R. Douglass, Texas Instruments Inc.; **Patrick I. Oden**, Texas Instruments Inc.

Program Committee

Michael F. Becker, The Univ. of Texas at Austin; **Jonathan T. Fong**, Texas Instruments Inc.; **Roland Höfling**, ViALUX GmbH (Germany); Alfred Jacobsen, Visitech AS; Paul Rancuret, Texas Instruments Inc.; **Joseph P. Rice**, National Institute of Standards and Technology; **Karel J. Zuzak**, Digital Light Innovations

The Digital Micromirror Device (DMD) was conceived at Texas Instruments in 1987, following a decade of work on analog deformable-mirror and cantilever-mirror devices. This particular MOEMS device has been applied most famously to conference room and portable projectors, large-screen high-definition televisions, and digital cinema projection systems, all of which were enabled by DLP® technology.

As evidenced in this well-attended conference at Photonics West 2011, the DMD and associated development platforms are enabling many exciting new systems and applications beyond the traditional display technologies listed above. The goal of this conference, therefore, is to bring together scientists, technologists, and developers working on applications in these emerging markets.

Technical areas of particular interest include, but are not limited to:

- 3D volumetric displays
- beam/wave-front shaping
- biochemical visualization
- embedded and portable systems
- gaming and toys
- holographic data storage
- lithography
- medical devices
- metrology and machine vision
- microscopy
- optical micromanipulation
- optical telecommunications
- rapid prototyping
- security and surveillance
- augmented reality
- spectrally tunable light sources
- spectroscopy and hyperspectral imaging
- UV and IR applications.

