

HOME DETECTORS & IMAGING LASERS & SOURCES OPTICS FIBER OPTICS SOFTWARE & ACCESSORIES TEST & MEASUREMENT PRODUCTS

Home More Lasers & Sources Articles JDSU acquires ultrafast laser maker Time-Bandwidth Products

# JDSU acquires ultrafast laser maker Time-Bandwidth Products

01/30/2014 By Conard Holton Editor in Chief

**Milpitas, CA**--JDSU has acquired Time-Bandwidth Products (Zurich, Switzerland), a provider of high-powered and ultrafast lasers for the industrial and scientific markets. It also acquired most of the assets of Trendium (Boulder, CO), a provider of real-time intelligence software for 4G/LTE mobile network operators, which gives JDSU a broad portfolio of LTE solutions.

"For nearly twenty years, Time-Bandwidth Products has been developing ultrafast lasers that provide industrial-level reliability with the performance required for material-processing applications," said Kurt Weingarten, president and CEO of Time-Bandwidth Products. "Combining our expertise in ultrafast lasers for micromachining with JDSU's expertise at vertical integration and high-volume manufacturing will enable JDSU to bring powerful new laser solutions to the market."

The company was founded in 1994 to commercialize new developments in diode-pumped ultrafast laser systems. It is the only authorized spin-off of the Ultrafast Laser Physics group at the Swiss Federal Institute of Technology (ETH--Eidgenössische Technische Hochschule). Time-Bandwidth Products board member Ursula Keller heads the Ultrafast Laser Physics group.

Related article: Picosecond lasers: Achieving maximum processing speed, written by Time-Bandwidth Products



## LASER FOCUS WORLD MA

Read the Current Iss

**Read Past Issues** 

Subscribe to Laser Focus Wor

Subscribe to Laser Focus World



## **RELATED ARTICLES**

POET receives \$4.5M financing to advance integrated optoelectronic technology



EV Group's automated UV nanoimprint litho system for photonics, LEDs and BioMEMS

Lockheed Martin demonstrates 30 kW weapons-grade fiber laser



Osram switches its red and yellow LED fabrication up to 6-in. wafers



## **BUYERS GUIDE**

## **RELATED COMPANIES**

#### JAI A/S

Manufactures high performance CCD/CMOS cameras for machine vision, medical, traffic systems, and surveillance. Includes both interlaced and progressive scan with a variety of interface op...

#### **Photonics Bretagne**

Offers a cluster composed of research centers,

schools and companies all in the field of photonics

### Lighthouse Photonics Inc

Provides sealed, turn-key, cost-effective, diode-pumped solidstate (DPSS) lasers for scientific research, industrial manufacturing and life sciences, including Sprout<sup>™</sup> – a highpower, CW...

## EDITORS' PICKS

SPIE BiOS and SPIE Photonics West 2014 preview: Optics and photonics continue to innovate

(SLIDE SHOW) Technology Review 2013

Photonics community hails UN declaration of 2015 International Year of Light

2014 Lasers & Photonics Marketplace Seminar agenda finalized; early bird registration open

## MOST POPULAR ARTICLES

century innovations

**SPIE BIOS and SPIE Photonics West 2014** preview: Optics and photonics continue to innovate

JDSU optical technology advances 3D sensing for new Kinect Xbox One

JDSU acquires ultrafast laser maker Time-**Bandwidth Products** 

MEDICAL APPLICATIONS OF FIBER-OPTICS: Optical fiber sees growth as medical sensors

## DETECTORS AND IMAGING

Ocean Optics designs microspectrometer for integration into instruments

Photonics in 2014: new site maps trends in advanced manufacturing, life sciences, aerospace

Ptychography method uses phase information for high-contrast, label-free imaging

Cal Sensors position detector development kit contains two PbSe detectors for IR signal detection

## RELATED PRODUCTS

Sprout-G Up to 18W TEMoo, ultra low noise, integrated chiller

Sprout-H Up to 10W TEMoo, ultra low noise, integrated chiller

X-PD Fiber optics Partial discharge sensors and system

## **RECENT ARTICLES**

ASI's stage inserts fit a standard 110 by 160 mm opening

Multipurpose laser sensor from Keyence uses TOF technology

Ocean Optics designs microspectrometer for integration into instruments

Nanofoot introduces visual inspection system

## FROM THE ARCHIVES

3D solar cells generate up to 20 times more energy 05/11/2012

Northrop Grumman demonstrates anti-cruise missile laser weapon 05/06/2012

LASER MARKETPLACE 2014: Lasers forge 21st Quantum-dot VCSELs can emit anywhere in the visible spectrum 04/30/2012

> Terahertz microchip could let cell phones see through walls 04/27/2012

Laser-based 3D nozzle quality test from Fraunhofer ILT improves laser material deposition 04/26/2012

FIBER LASERS: Fiber lasers: The state of the art 04/01/2012

DIODE-PUMPED SOLID-STATE LASERS: Laser dazzlers are deployed 03/01/2012

**OPTICAL DATA STORAGE: Holographic data** storage uses volumetric crystal media 02/07/2012

Sandia's laser-guided bullet prototype can hit small targets a mile away 02/02/2012

## FIBER OPTIC COMPONENTS & SYSTEMS

04/02/14 21:18

- · Laser Sources
- Laser Specification Tables
- Applied Optical Systems
- · Optical Coating & Fabricatio
- Optical Test & Measuremen Fiber-optic Components
- Laser Systems Parts & Acce
- Detectors & Accessories
- Materials & Substrates
- Products & Services

Click here to have your products list Laser Focus World Buyers Guide.

## **TOPIC INDEX**

View Laser Focus World articles by

## **VIDEO LIBRARY**

View the Laser Focus World video

## **ARTICLE ARCHIVE**

View Laser Focus World past artic

## **TOPIC CENTERS**

Spectroscopy Defense & Security - NEW TOPIC **Detectors and Imaging** Fiber Optic Components & Syste Lasers & Sources **Optical Components & Systems** Positioning, Support & Accesso Photonics Education Photonics Business Science and Research Software Test & Measurement

## SOCIAL ACTIVITY

BaySpec multi-excitation confocal Raman microscope is research-grade	POET receives \$4.5M financing to advance integrated optoelectronic technology
MORE DETECTORS AND IMAGING	Applied Optoelectronics introduces 40 Gbps fiber optic transceivers
LASER & SOURCES	Reaching exabit/s·km data transmission
POET receives \$4.5M financing to advance ntegrated optoelectronic technology	SPIE BiOS and SPIE Photonics West 2014 preview: Optics and photonics continue to innovate
EV Group's automated UV nanoimprint litho system for photonics, LEDs and BioMEMS	New €30 million Irish Photonic Integration Centre launched at Tyndall National Institute
IDSU acquires ultrafast laser maker Time- 3andwidth Products	MORE FIBER OPTIC COMPONENTS & SYSTEMS
ockheed Martin demonstrates 30 kW weapons- grade fiber laser	POSITIONING, SUPPORT & ACCESSORIES POET receives \$4.5M financing to advance
Osram switches its red and yellow LED fabrication	integrated optoelectronic technology
up to 6-in. wafers MORE LASER & SOURCES	Applied Optoelectronics introduces 40 Gbps fiber optic transceivers
	Reaching exabit/s·km data transmission
OPTICAL COMPONENTS & SYSTEMS POET receives \$4.5M financing to advance	SPIE BiOS and SPIE Photonics West 2014 preview: Optics and photonics continue to innovate
ntegrated optoelectronic technology	New €30 million Irish Photonic Integration Centre launched at Tyndall National Institute
system for photonics, LEDs and BioMEMS	MORE POSITIONING, SUPPORT & ACCESSORIES
ockheed Martin demonstrates 30 kW weapons- rade fiber laser	SCIENCE AND RESEARCH
Pangolin galvanometer-based optical scanner can be used in handheld medical devices	Photonics in 2014: new site maps trends in advanced manufacturing, life sciences, aerospace
Applied Optoelectronics introduces 40 Gbps fiber optic transceivers	Ptychography method uses phase information for high-contrast, label-free imaging
MORE OPTICAL COMPONENTS & SYSTEMS	BaySpec multi-excitation confocal Raman microscope is research-grade
SOFTWARE SPIE BIOS and SPIE Photonics West 2014	SPIE BiOS and SPIE Photonics West 2014 preview: Optics and photonics continue to innovate
preview: Optics and photonics continue to nnovate	Rapid, low-temperature process improves kesterite solar cell prospects
SOFTWARE: OPTICAL DESIGN: Multiphysics model speeds nanophotonic devices simulation	MORE SCIENCE AND RESEARCH
Aingle with executives at the February 3rd Laser	SPECTROSCOPY
Marketplace Seminar	Ocean Optics designs microspectrometer for integration into instruments
Aultiphysics simulation software presence 2014: The photon spark	SPIE BiOS and SPIE Photonics West 2014 preview: Optics and photonics continue to innovate
MORE SOFTWARE	Ocean Optics to launch spectrometer and
TOT & MEACHDEMENT	microspectrometer at SPIE BiOS and SPIE Photonics West 2014
EST & MEASUREMENT	Mingle with executives at the February 3rd Laser Marketplace Seminar
OF technology	PHOTONICS PRODUCTS: SPECTROMETERS:
Nanofoot introduces visual inspection system Compact optical sensor detects salt on the road to	Imaging spectrometers examine the world around us MORE SPECTROSCOPY
woid excess salt-enroading	
avoid excess salt-spreading Bristol Instruments optical thickness gauge measures materials up to 16 mm	

http://www.laserfocusworld.com/articles/2014/01/jdsu-acquires-ultrafast-laser-maker-time-bandwidth-products.html

fy

Ptychography method uses phase information for high-contrast, label-free imaging

**MORE TEST & MEASUREMENT** 



Copyright © 2007-2014. PennWell Corporation, Tulsa, OK. All Rights Reserved. PRIVACY POLICY | TERMS AND CONDITIONS