Laurin Publishing

2001 Photonics Awards

The Distinction in Photonics Award:
Honoring Individual Achievement

The Distinction in Photonics Award honors those individuals whose dedicated service over the years has contributed to the growth and prosperity of the photonics industry.

The publishers and editors at Laurin Publishing are pleased to present the 2001 Distinction in Photonics Award to:

Teruo Hiruma, Hamamatsu Photonics KK

and

Dr. Donald B. Keck, Corning Incorporated

who, through tireless devotion to their companies, employees and industry associations, have furthered the cause of the photonics industry.

The Photonics Circle of Excellence Awards:
Recognizing the 25 Most Technically Innovative New Products of the Year

For more than a decade, these annual awards have recognized the enterprising companies and individuals who have refused to accept the status quo and have instead pushed the limits of technology to develop new photonic products and processes.

This year's 25 winning products, described on the following pages, were chosen from among the hundreds of entries submitted from around the world. They have survived the toughest scrutiny: judgment by the members of *Photonics Spectra*'s Editorial Advisory Board — a panel of recognized experts in a variety of disciplines.

To be eligible, products had to be commercially available between June 1, 2000, and May 31, 2001.

The ceremony honoring this year's Distinction in Photonics and Circle of Excellence award winners will take place Jan. 21 in San Jose, Calif., at the Fairmont Hotel, concurrently with Photonics West.

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The 2001 Circle of Excellence Award Winners

Agere Systems	2722 Lithium Niobate Polarization Controller
Andor Technology Ltd.	DV 465 Electron-Multiplying CCD
Beam Co.	Crystal-Scan Laser Beam Multimeter
Cisco Systems Inc.	ONS 15540 Extended Services Platform
CogniTens Ltd.	Optigo 100E Noncontact 3-D Measurement System
Coherent Inc., Photonics Group, Laser Div.	Sapphire Laser
Eastman Kodak Co., Image Sensor Solutions	16-Million-Pixel Full-Frame CCD Image Sensor
Emcore Corp.	10-Gb/s Oxide VCSEL
General Photonics Corp.	Dynamic Differential Group Delay Module
Hamamatsu Photonics KK	Programmable Phase Modulator
IMRA America Inc.	A-70 Ultrafast Fiber Laser
JDS Uniphase Corp.	Fiber Bragg Grating Tunable Dispersion Compensator
LaserComm Inc.	Hi-Mode Dispersion Management Device
New Focus Inc.	TLS 420C Widely Tunable Laser Module
Nortel Networks Optical Components	LCW5 High-Power Tunable Laser
NTT Electronics Corp.	Polarization-Maintaining Arrayed Waveguide Grating
Photobit Technology	PB-MV13 1.3-Megapixel CMOS Image Sensor
Photonfocus AG	MV-D1024k Digital Camera
Polytec PI Inc.	MSV-300 Micro-Scanning Vibrometer
QED Technologies Inc.	Q22-Y Magnetorheological Finishing Raster System
Scientific Solutions Inc.	NIR High-Resolution Liquid Crystal Fabry-Perot Etalon
Spectra-Physics	Millennia UV Laser
TNP Instruments Inc.	DUV-250 Deep-UV Microscope
Veeco Instruments Inc., Metrology Group	Optium Automated Filter Test and Sort System
WaveFront Sciences Inc.	Columbus Wafer Nanotopography System

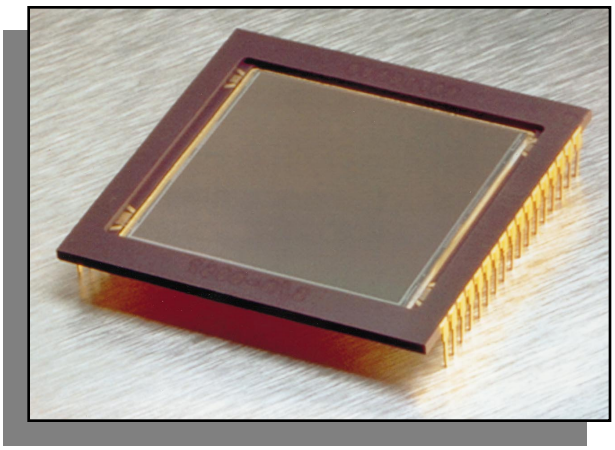
Eastman Kodak Co. Image Sensor Solutions

• 16-Million-Pixel Full-Frame CCD Image Sensor •

The 16-million-pixel, full-frame CCD image sensor was designed by Eastman Kodak Co.'s Image Sensor Solutions to provide digital imaging applications with a leap in resolution from a standard 6 million pixels to 16.6 million (4080 × 4080) pixels.

The Rochester, N.Y., company says the sensor incorporates an indium-tin-oxide transparent electrode that increases the imager's photographic sensitivity by more than twice that provided by many conventional full-frame CCDs. The resolution of fine details will benefit professional photographers, aerial photographers, scientists and astronomers.

A lateral overflow drain pixel architecture provides blooming protection of 100 times the illumination required to achieve saturation. The imager's three-stage output amplifier enables faster operation for higher frame rates with precise sampling of output signals; and its multipinned phase CCD clocking provides dark current levels that allow longer exposures with lower image noise.



The KAF-16801CE is a color version of the imager suitable for portrait, fashion and commercial photography. The KAF-16801LE is the monochrome version that enables resolution of fine details, and the KAF-16801E offers the highest image quality. Its low dark current and 100 percent fill factor will benefit scientists attempting to map both the Earth and the skies.