



PHOTONICS SOLUTIONS

Advanced Photonix provides innovative photonics, optoelectronics, and advanced electronic systems for Aerospace & Defense, Medical, Agricultural, and Industrial Original Equipment Manufacturers (OEMs) who demand high reliability, high-performance and market-driven technology solutions today.

 *Advanced Photonix*
A Division of OSI Optoelectronics

Passion for Photonics

SILICON & InGaAS PHOTODETECTORS

Our high-performance photodetectors are essential components in a wide range of applications, from spectroscopy and seed counting to complex celestial body surface mapping in space. Our experienced engineers work closely with you to turn your concept into a complex optical sensor. We collaborate through every phase of the design cycle to ensure that the resulting product meets or exceeds your expectations.

P-I-N Photodiodes

Avalanche Photodiodes
(up to 16mm in diameter)

Lateral-Effect Position Sensitive
Detectors (PSD)

Quadrant Position
Detectors (QPD)

Radiation Detectors

Extended Range InGaAs Detectors (400-1900nm)

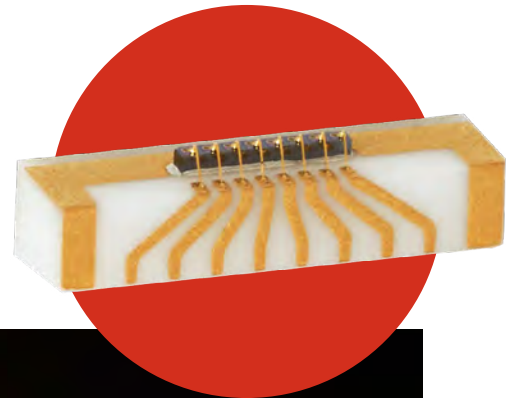
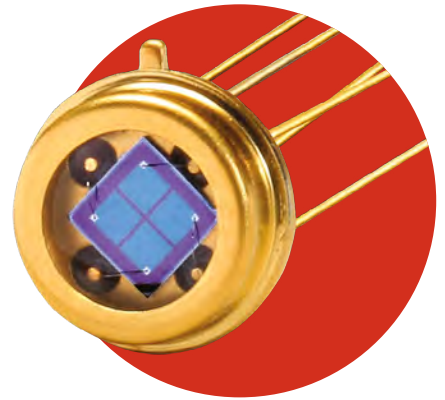
Detector Filter Combination

Photodiode Amplifier Hybrids

Nd: YAG Optimized Detectors

Two-Color Detectors

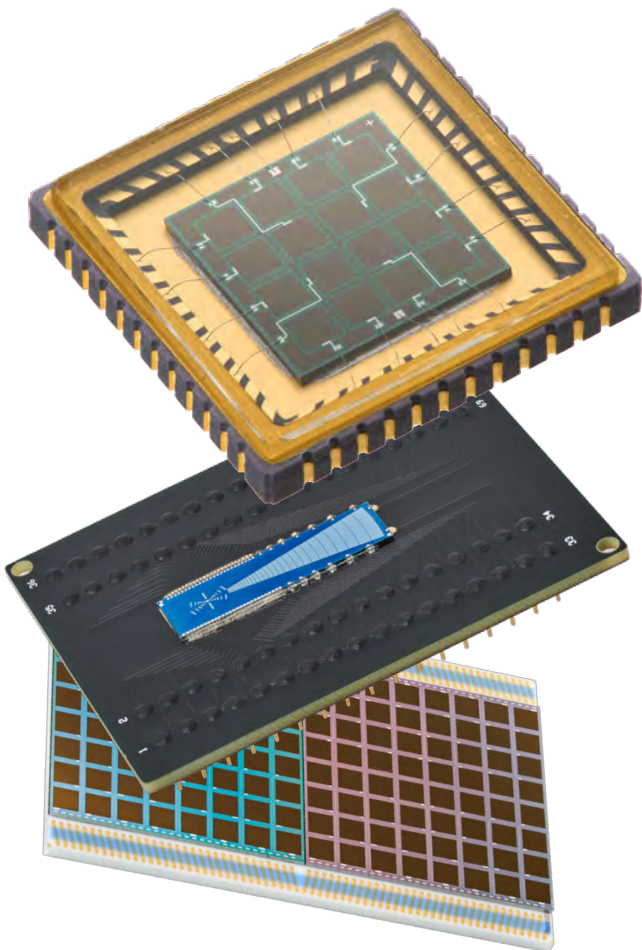
Multi-Element Arrays





SEMICONDUCTOR DESIGN & FABRICATION

With our extensive capabilities in designing and manufacturing Silicon and III-V compound devices, we meet the most demanding requirements. Our solutions support even the most critical applications by taking advantage of the latest technological advancements.



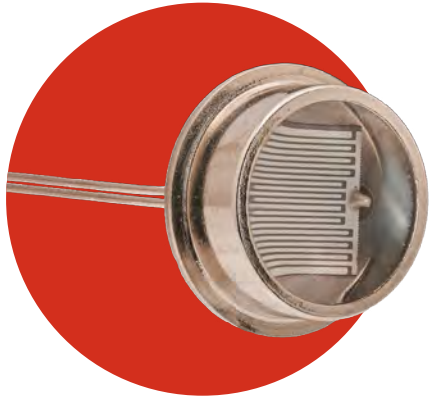
PHOTONICS PACKAGING

With 12 world-class facilities, we design and develop high performance photodetectors, laser diodes, imaging and medical sensors, and photonic modules. Our design and manufacturing services are scalable from prototype to volume production in medical and life sciences, aerospace and defense, security, communication, and industrial applications.

TEST & CALIBRATION, HIGH-RELIABILITY QUALIFICATION

Our solutions meet the challenging demands of commercial, automotive, defense and aerospace applications. We incorporate our extensive in-house environmental, functional, and reliability testing and screening capabilities.

PHOTOCELLS (CdS) & OPTOCOUPLERS



Light Dependent Resistors (LDR) measure visible light from 400 to 700 nm. The device resistance decreases as the light level increases with efficiency characteristics similar to the human eye. These LDRs are available in various resistance values and packages.

Our CdS Photocell Output optocouplers (optoisolators) optically couple an LED to a CdS LDR. They interconnect two separate electrical circuits through a light-sensitive optical interface. The LDR resistance increases when the LED current is “off” and decreases when the LED current is “on”.

PHOTORESISTORS

Passive Resistance Output

Wide Range of Resistance Values

Ceramic and Hermetic Packages

Audio Compressors

Night Lights

Photography Light Meters

Solar Street Lights

Flame Detection

OPTOCOUPLERS

Compact Moisture Resistant

Low LED Current

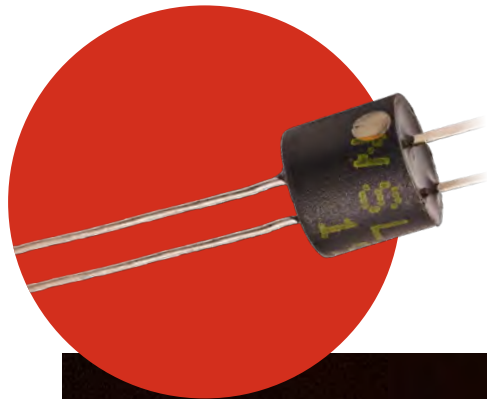
Very Low “On” Resistance

Passive Resistance Output

Low Distortion

Audio Compressors

Electrical Noise Filter



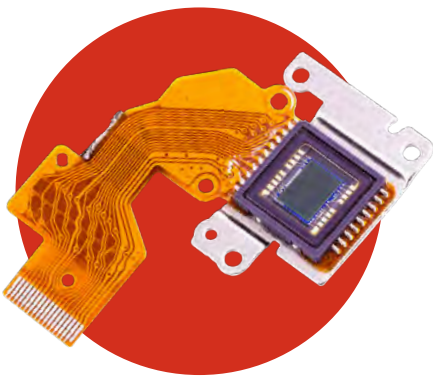
MANUFACTURING SERVICES

PCB ASSEMBLY

End-to-end engineering and manufacturing dedicated SMT lines

Microelectronics

Soldering, coating, chip on board



FLEX AND RIGID-FLEX CIRCUIT

Complete flex circuit and rigid-flex circuit turnkey solutions

Design, engineering, prototyping, manufacturing

BOX BUILD

SMT and cutting-edge assemblies

Configurable and complex box builds

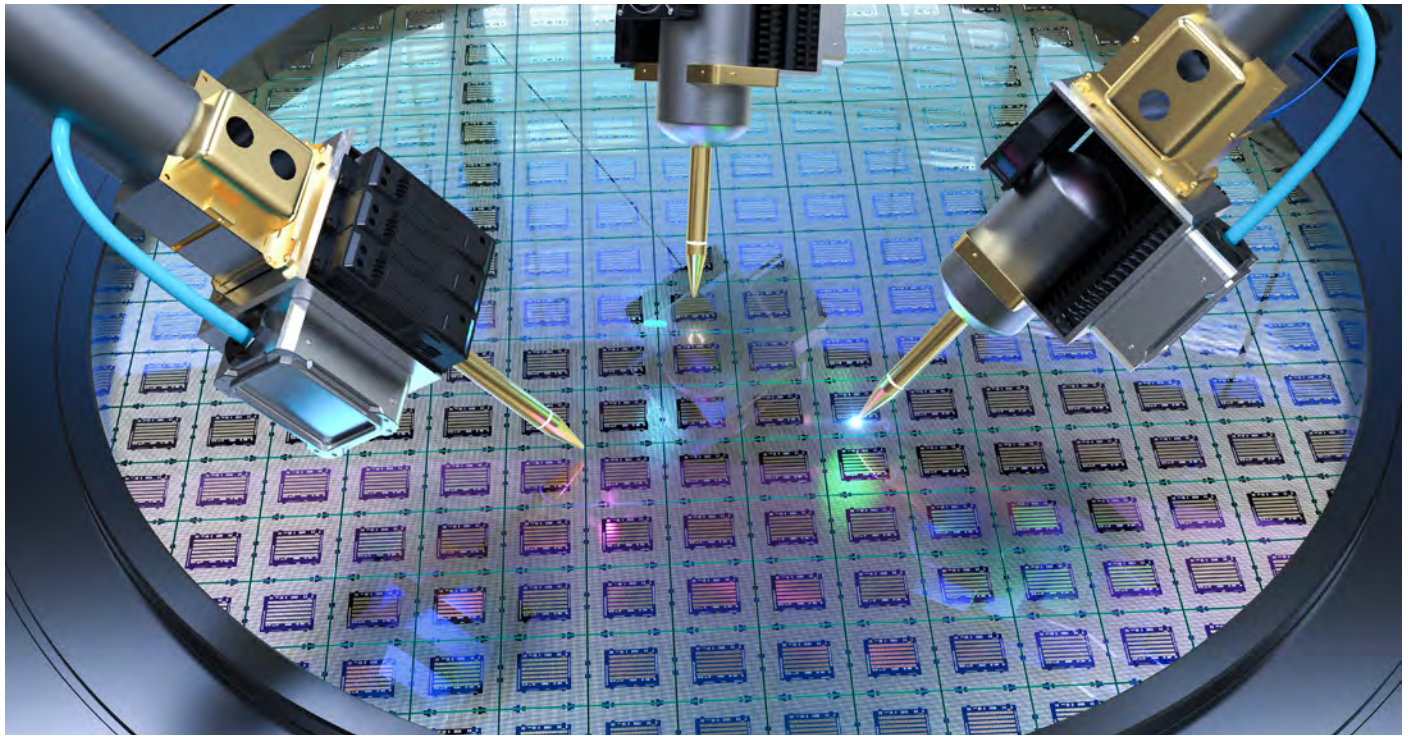
System integration and test services



CABLE AND HARNESS

Complex harnessing, Over-molding, ID labeling

Electro-mechanical assembly, ultrasonic welding, medical cables



HEADQUARTERS

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QUALITY SYSTEMS CERTIFICATIONS, REGISTRATIONS & STANDARDS

AS9100 Certified
ISO 9001 Certified
ISO 13485 Certified
ISO 140001 Certified
ISO 13485 Certified

Test & Environmental Test
Capabilities compliant to

- MIL-STD-883
- MIL-STD-750
- MIL-I-45208
- MIL-PRF-19500
- GR-468-CORE

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WWW.ADVANCEDPHOTONIX.COM

GLOBAL LOCATIONS

NORTH AMERICA

Hawthorne, CA
Camarillo, CA
Santa Clara, CA
Woodinville, WA

CANADA

Scarborough, ON

EUROPE

Cambridgeshire, UK

CENTRAL AMERICA

Nogales, Mexico

ASIA

Batam, Indonesia
Johor Bahru, Malaysia