

# Photonics is science, and light is philosophy

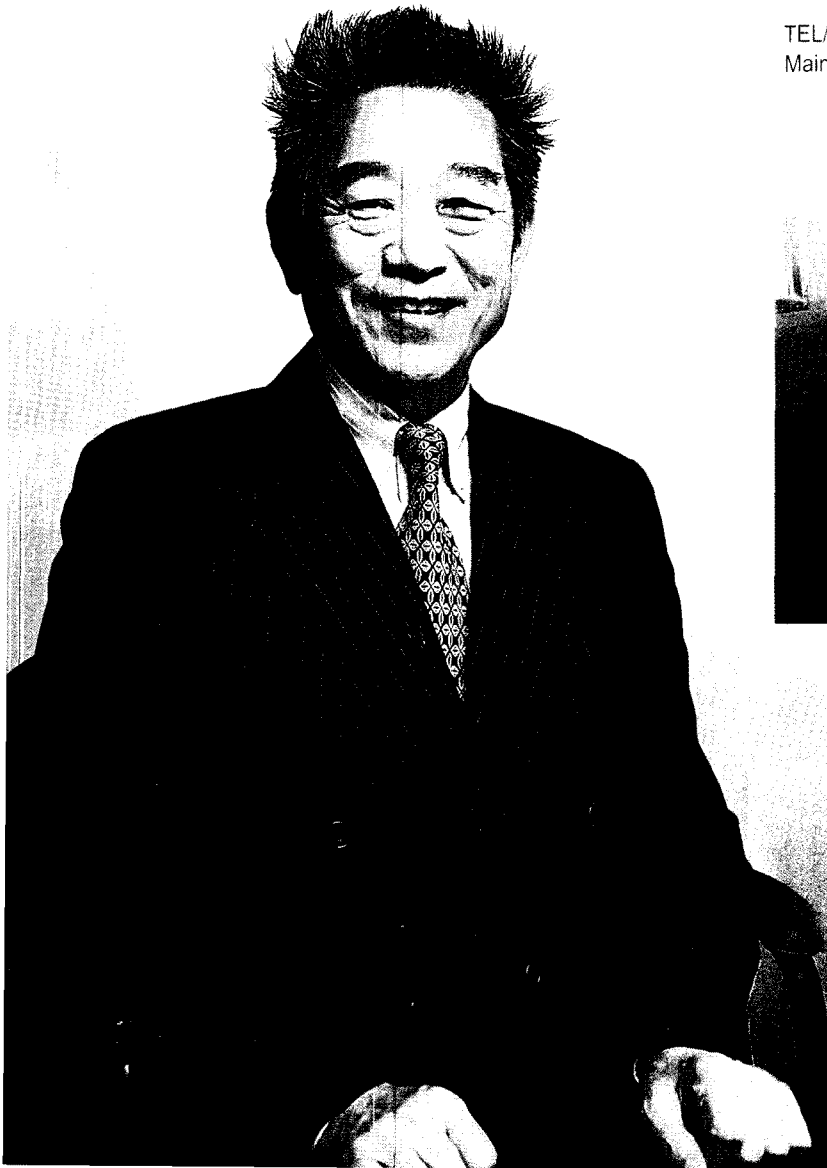
한국고덴시(주)

<http://www.kodenshi.co.kr>

대표소재지  
전화/팩스  
주생산물

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T. 063-839-2100 / F. 063-602-2004  
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하이브리드, 복합형 모듈 및 유닛 등  
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Main products LED, remote control receiver module, photocoupler, photo interrupter, optical data two-way transmission module, hybrid, complex module, unit, optical semiconductor wafer element and module.



“光은 科學이요, 빛은 哲學이다.”

한국고덴시는 전북 익산시에 있었는데 개나리꽃처럼 셋 노란 건물에 한국고덴시(주)라는 검정색 글씨가 눈에 띄었다. 취재를 위해 들어간 별관 옆에 비석이 있었는데 “광(光)은 과학이요, 빛은 철학이다.”라고 적혀 있었다. 특이해서 물어보았더니 이는 자연을 대표하는 빛과 더불어 환경친화적 기업으로 고객에게 신뢰를 주고 사회공헌을 통해 지역사회와 함께 성장해 가는 KODENSHI AUK 그룹의 기업이념이라고 했다.

빛으로 만드는 세상, 광반도체를 이용한 기술력으로 1980년 익산에 뿌리를 내려 1984년 광전자(주), 1990년 (주)나리지온 등 익산에 각 사업부분별 자립적인 전문기업을 설립·육성하여 신제품, 신기술 개발에 정진하여 브랜드 가치 창출에 힘써 왔다고 한다.

《 KODENSHI AUK 그룹 계열사 》

- ◆ (주)나리지온: 국내최초 화합물반도체 제조업체로 갈륨 비소 LED 반도체 개발생산
- ◆ 광 전 자(주): 포토다이오드 제조업체이며 Power Discrete와 IC 분야 개발생산

국내 최초 태양광에너지 Solar Cell 생산을 시작으로 광소자 및 광Sensor를 축으로 하는 광반도체 Module Solution 전문회사로서 국내·외 전자 통신기업에 제품을 공급하고 있으며, KODENSHI AUK그룹은 계열사간 탄탄한 조직력 및 기술력으로 익산의 산업발전을 이끄는 주요기업으로 손꼽히고 있으며, 세계 일류 고객에게 품질과 기술력을 인정받고 있다고 한다.

한국고덴시(주)는 이미 LED(발광다이오드)사업을 차세대 성장동력사업으로 정하고 국내 의료기기 모듈 및 일본에 공급되고 있고 월 1,000만개 이상의 양산체제 구축을 통해 판매량을 증대시켜 나갈 방침이라고 한다. 신성장 동력사업 육성정책이 지역발전의 기회라는 점을 인식하고, 익산시와 함께 지역기반사업으로 부가가치 창출을 높이는데 적극 협조할 계획이라고 한다.

국제금융시장 불안, 환율급등, 원자재가 상승 등 우리사회에 많은 변화가 일어나고 있지만 한국고덴시는 주요 수출기업으로서 불안한 대외환경에서도 신제품 개발과 가격 경쟁 우위상품 개발에 매진하여 2009년도에도 안정적인 기업운영을 하면서 성장세도 이어갈 것으로 기대된다.



“ Photonics is science, and light is philosophy.”

Kodenshi Korea corp's building, located in Iksan, Jeollabuk-do, stood out with its strong yellow color resembling a forsythia and black letters spelling the company's title. The outbuilding I visited for an interview had stone tablet that said, "photonics is science, and light is philosophy." When I asked for more explanation out of curiosity, the answer was that it was Kodenshi Auk group's corporate ideology aiming for earning trust from customers as an environmentally friendly corporation with light, which represents nature, and developing together with the local community through social contribution. Using optical semiconductor technology to create a world of light, Kodenshi Korea corp. was founded in 1980 in Iksan, established and fostered specialized independent corporations such as Auk Corp in 1984 and Knowledge-On Inc. in 1990. This led to the development of new products and technology, connecting to brand value creation.

《 Kodenshi Auk group affiliates 》

- ◆ Knowledge-On Inc : The first compound semiconductor manufacturer in Korea that develops and produces Ga-As LED semiconductors.
- ◆ Auk Corp : A photodiode manufacturer that develops and produces in Power Discrete and IC fields.

Also, after starting out with Solar Cell productions, Kodenshi Korea corp. developed into a specialized Module Solution corporation that has photo device and optical sensors its main fields. The company also expanded its business area to the world and established a global network by utilizing Japan(fundamental design), China(mass production), Korea(applied technical design) as three strongholds, delivering quality products and technology to world-class customers. Kodenshi Korea corp. has set LEDs(luminescent diode), which is emerging as a key industry of green growth, as its future growth engine and is supplying them to Korean medical instrument modules and Japan. It also has plans to increase the number of sales by establishing mass production of more than ten million units per month.

Furthermore, it also is expanding its business in the LED market with thirty years of know-how through events such as the vision declaration of the LED industry promotion held at Kodenshi Korea corp in Jeollabuk-do, Auk group's appointment as the company of presidents' association at the foundation of Jeollabuk-do Optical Semiconductors Industrial Association, and president Nakajima Hirokazu's appointment as the first chairman of the association. Numerous changes such as the volatility in the international financial market, soaring exchange rate, rising commodity prices are taking place in our society, but Kodenshi Korea is sparing no efforts to develop new cost-competitive products even in such difficult environment as a major exporting company, which is why it is expected to be stable in 2009 and continue its growth.



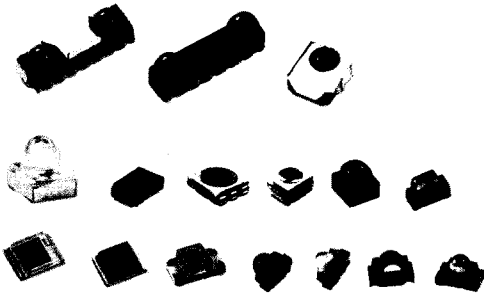
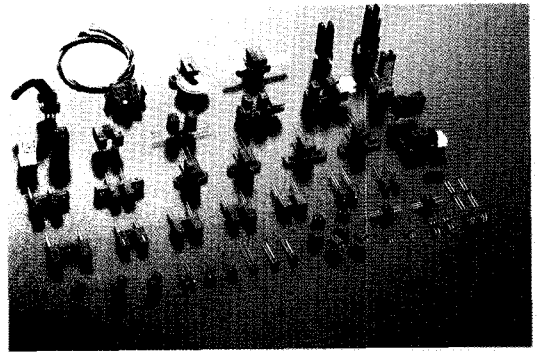


## Main Products

### Photo Interrupters & Photo sensors

전형적인 혼합요소는 빛검출기 소자와 반도체 교체의 혼합이 포함되어 있으며, 넓게 고립되어 비접촉성으로 사용되고, 다양한 종류의 응용제품이 나오고 있다.

Composite elements typically include combinations of light-detecting elements and solid state relays. They are widely used as isolated(non-contact) switches. Various types are available according to the application. Traditional compound elements include the compound of photo detector and semiconductor replacements. These are widely isolated and used as a non-contact type, creating diverse type of applied products.



### SMLP & Hybrid Assemblies

PCB회로기판과 디자인교체금형으로 사용되고 있는 SMLP는 특별 기류 조건을 만족시키는 다양한 종류의 형태들과 RoHS의 높은 신뢰로 구성되어 있다.

SMLP(Surface Mountable Leadless Package) which is used to design transfer molds and PCB circuit boards, consists of various product types satisfying specific reflow condition and high confidence of RoHS.

SMLP, being used for PCB circuit boards and design replacements, consists of many formats that satisfies special air currents and high credibility of RoHS.

### Optical Communicaton devices

광통신장치의 수직통합을 이루기 위해 레이저 다이오드와 InGaAs 포토 다이오드 칩에서 전체적으로 대량생산능력과 고객들을 위한 높은 제작 융통성을 갖춘 내부적 생산라인을 갖춰 OSA로 구성했다. 다양한 제품종류는 CWDM DFB-LD 칩과 TO, PIN PD 칩, TO, 변발성의 동축케이블, TOSA, ROSA, BOSA가 포함되어 있다.

We have built a vertical integration of optical communication devices from laser diode and InGaAs photo diode chip to OSA with its wholly owned in-house production line which offers large production capacity and great manufacturing flexibility for customers. A wide variety of product groups is available including CWDM DFB-LD chip and TO, PIN PD chip and TO, fiber pigtailed coaxial modules, TOSA, ROSA and BOSA. In order to accomplish the vertical integration of optical communication devices, an overall internal production line with mass production capability and high manufacturing flexibility for laser diode and InGaAs photodiode chips are comprised into OSA. There are also diverse products such as CWDM DFB-LD chip, TO, PIN PD, TO, coaxial cables, TOSA, ROSA, BOSA.

