

**BK Electronics**



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**BK**  
ELECTRONICS

**WE INSPIRE PRIDE**

OEM·ODM OF MEDICAL INSTRUMENT



## Greetings

BK Electronics is the leading electronics manufacturing service provider in Korea. With nearly 40 years of experience, we have established ourselves as a trusted contract manufacturer to companies of all sizes, industries and countries.

Since 1987, we have gradually grown into a one-stop service company, manufacturing products in medical, industrial, defense, and energy spheres. Our state-of-the-art facilities, advanced technology, and highly skilled workforce enable us to deliver exceptional solutions that exceed our customers' expectations. We understand the importance of building strong relationships with our customers, and that each client requires tailored solutions to meet their specific needs.

As we continue to grow and expand our capabilities, we remain committed to delivering exceptional service and driving success for our customers. Thank you for considering BK Electronics as your electronics contract manufacturing partner. We look forward to serving you and working together to achieve success.



### Affiliates

K101 Co.,Ltd.



Location Anyang, Korea  
Area 30,000m<sup>2</sup>

### Overseas subsidiaries

Best BK Electronics Co.,Ltd(Vietnam)



Location Hanoi, Vietnam  
Area 15,000m<sup>2</sup>

Electronics Manufacturing Service

**ONE STOP SERVICE**

Original Equipment Manufacturing

memo.

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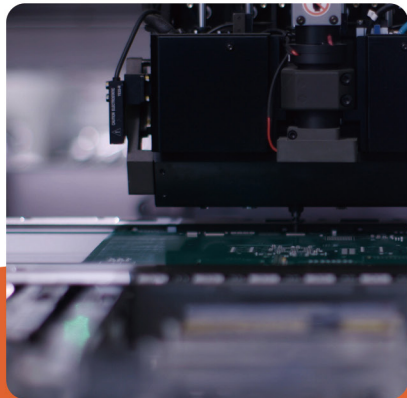
Business Card

## One-stop Total Solution

With nearly 40 years of experience in contract manufacturing of electronics, we provide complete EMS solutions: from purchasing parts to PCB design, assembly and testing, as well as box-build and harness assembly – all under one roof.



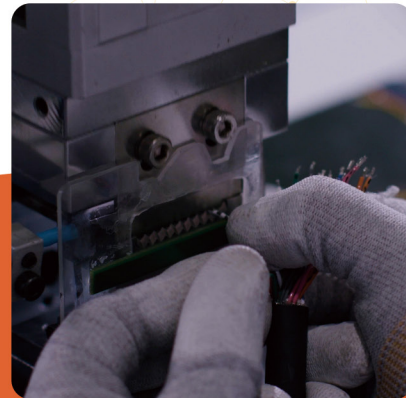
ARTWORK



SMT



IMT



HARNESS



SET ASS'Y

## Manufacturing Technology

- Competitive facilities for quality and productivity
- Computerized production data management
- Customized production to meet customer needs

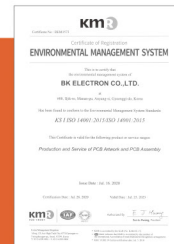


## Quality Control

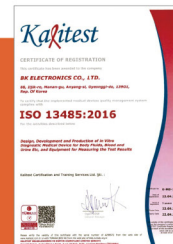
We focus all our capabilities to attain world-class quality and continuous improvement.



ISO9001



ISO-14001



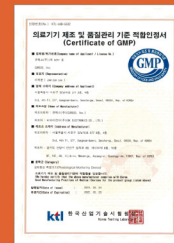
ISO-13485



IATF16949



KS Q 9100



GMP



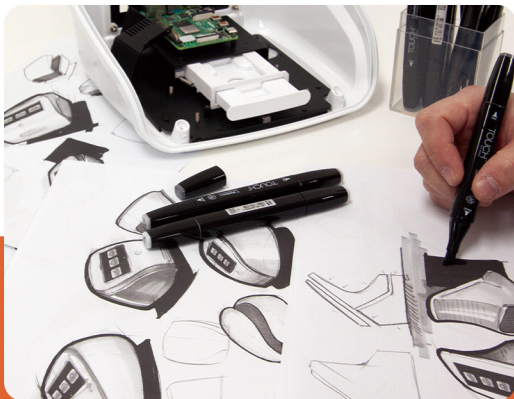
KEPIC-EN



IPC

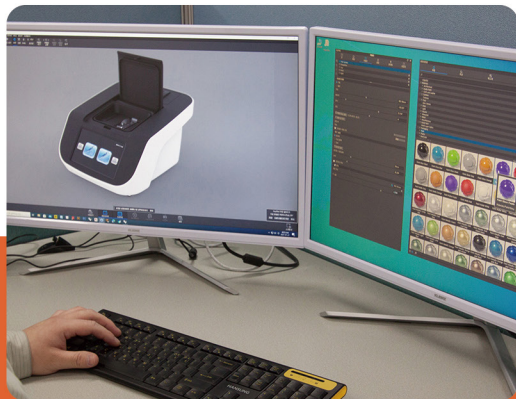


## Research and Development



### DESIGN

- Product external / internal
- Aesthetics
- User convenience
- Optical performance



### SW DEVELOPMENT

- Artwork
- UI design
- Application
- Firmware



### HW DEVELOPMENT

- Mechanical
- 2D&3D development
- Performance validation
- Stability validation



### TESTING







- Functional test
- Stability test
- Reliability test

## Immunodiagnosics

# RPD-1000 / RPD-2000

This instrument reads rapid test kits and displays quantitative and qualitative results according to the analysis algorithm developed by BK Electronics.

## Key Features

-  Dual-processor image processing
-  Image analysis algorithm using Linux environment & camera OpenCV
-  Built-in scanner for UDI
-  7" touch screen display
-  User-centric Interface
-  Detachable printer

RPD-1000



RPD-2000



## Immunodiagnosics

# RPD-3500 (under development)




RPD-3500 is a mini device that reads and provides quantitative and qualitative results of rapid test kits.

## USB-C port

Connects to a computer to control the device, transfer test results, and for power supply.



## Key Features

-  Built-in scanner for UDI
-  Easy to use
-  User-centered GUI design
-  Can be connected to PC via USB



## Molecular Diagnostics

### IAM-1000 (under development)

IAM-1000 is a device for isothermal nucleic amplification reaction. It is lightweight and low-cost, which is ideal for on-site diagnosis in small hospitals and quarantine stations.

#### Key Features



Compact size



Easy to use with LED touch screen control



Single block : up to 8 samples



Smooth sliding system of a sample block module



## Molecular Diagnostics

### GEN-1800

This equipment quickly and accurately extracts and purifies nucleic acid(DNA, RNA) from samples such as blood for research purposes or for diagnosing diseases.

#### Key Features



Compact design that can be used not only in laboratory but also in the BSC



Short preparation and fast processing time



Simple and convenient operation and setting



Simultaneous execution of 1-8 samples and individual control








## Biochemical Diagnostics

### RPD-4000 (under development)

RPD-4000 urine strip analyzer analyzes the colors on the urine test pad with its own algorithm and presents the results.

#### Key Features

-  Accurate and fast results
-  Easy to use
-  User-centered GUI design
-  Removable test strip tray for cleaning
-  Removable thermal printer







## Biochemical Diagnostics

### CFU-D1

CFU-D1 is a POCT multi-analyzer for HbA1c, ACR, CRP and CREA, by measuring absorbance/reflective light using spectrophotometry.

#### Key Features

-  Multi-parameter application such as absorption and reflection measurement
-  Internal scanner (cartridge data recognition, including UDI)
-  5" touch screen display
-  Internal thermal printer



## Photo-oxidation Immunoassay

# ABSOL HS Duo

It uses PIFA technology, amplifying fluorescence signal on the presence of the specific marker protein. By analyzing amplification curve, a very small amount of specific marker protein can be measured.

## Key Features



For diagnosing Alzheimer's disease and mild cognitive impairment



Sample type :  
serum or plasma



Short preparation time, quick  
turnaround (approx. 30 minutes)



Easy to move - simple & convenient  
operation, light weight



## Blood Analysis

# RheoSCAN

This device measures comprehensive rheological properties of blood in a short period of time (<2 minutes). The device easily measures cohesion and cohesive force using cutting-edge microfluidic technology.

## Key Features



Compact design for hospitals,  
laboratories, and BSCs



Short preparation and quick  
processing time



Simple, convenient operation  
and setting



