

InspirNet co.,Ltd.

Company Introduction

Industry & Commercial R&D Company

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Introduction

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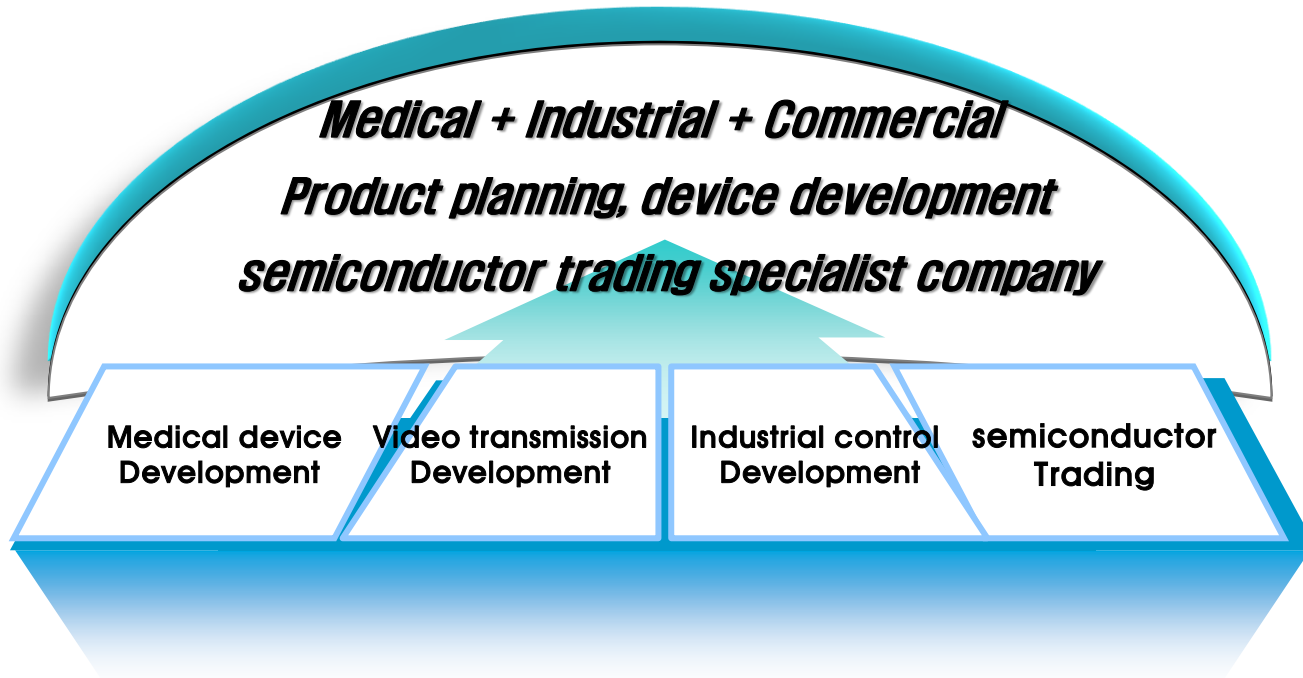
Customer & Partner

R&D Reference



Introduction

Inspirnet was founded in 2005 and began with semiconductor trading business in the medical, communication, and industrial fields. It has expanded into various business areas including the Developed medical devices, medical image transmission, industrial control devices and LED development. Based on this, we support customized total solution including product development planning. In addition, we do our best to meet customer demands with cost reduction and providing high quality, and we promise to become a company that will develop continuously.



Profile

Company Name	INSPIRNET. Co., Ltd.
CEO	Brian Chang, Martin Chang
Foundation Date	2005. 03. 18.
Capital	160,000 USD Credit rating : BB+
Address	#804, 8F, Woominuww, 121, Dongtan-daero 23-gil, Hwaseong-si, Gyeonggi-do, Republic of Korea
Contact	TEL : 031-203-8921 / 031-206-8633 , E-Mail : martin@inspirnet.com
Development	Medical control devices, motor driver, industrial control board video transmission device, SMPS, etc.
Business	R&D (H/W, S/W, F/W) , EMS , Component Distribution
R&D Product	Frame Grabber, Wireless Transmission Module, Industrial Controller B d Motor Driver , GAS Detector
Patent	Network-based multi-camera image processing and data transmission (Patent No. 10-1779749)
URL	www.inspirnet.com , blog.naver.com/inspirnet0825

History

■ 2005 ~ 2014

- 2005. TNB Solution Founded
- 2009. Agency Contract AIC
- 2010. Agency Contract MOCO
- 2011. Established German Branch
- 2013. Established Taiwan Design House
- 2014. Established China branch office / Hong Kong warehouse

■ 2015 ~ 2020

- 2015. Establishment of Inspirnet co.,Ltd.
- 2016. Developed Gpon Transformer
Developed Medical Optic Transceiver
- 2017. Developed Image Frame Grabber
- 2018. Registration of R&D Department
Developed karaoke Machine Board
Agency contract Senring
- 2019. Venture Company Certification
Developed CT Wireless Image Grabber
- 2020. Registration Industry-Academic
Cooperation company with Gachon University
Developed HDMI Wireless Module
Developed Toxic Gas Detector

■ 2021

- Inno-Biz Certification
- Developed :
Membrane Switch 2.0 for robot surgery bed
LED display device for tunnel car wash
Motor driver for bone measurement

■ 2022(Developed)

- Crane Boom Controller
- CT Wireless Image Grabber 2.0
- Robot Medical Bed Membrane SW 3.0
- PCB Line WAMS

■ 2023(Developed)

- CT Wireless Grabber 3.0 (10G)
- Crane Safe Pole LCD & GUI
- Crane PTO SIGNAL TIMER FUSE BOX
- Dental X-Ray Ethernet Hub (1G/10G)
- Skin Pole SST Pro GUI

■ 2024(Developed)

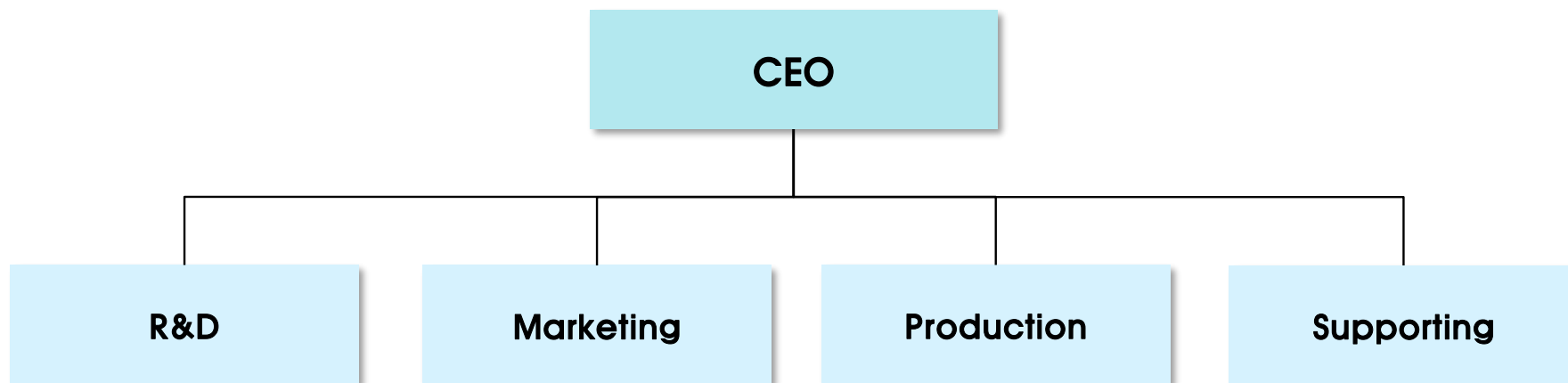
- Mobility Portable Electric Car Charger
- Mobile Communication SFP Extender LED
- Dental X-Ray Detector Trams Module (10G)
- Dental Puddle Lamp

Organization

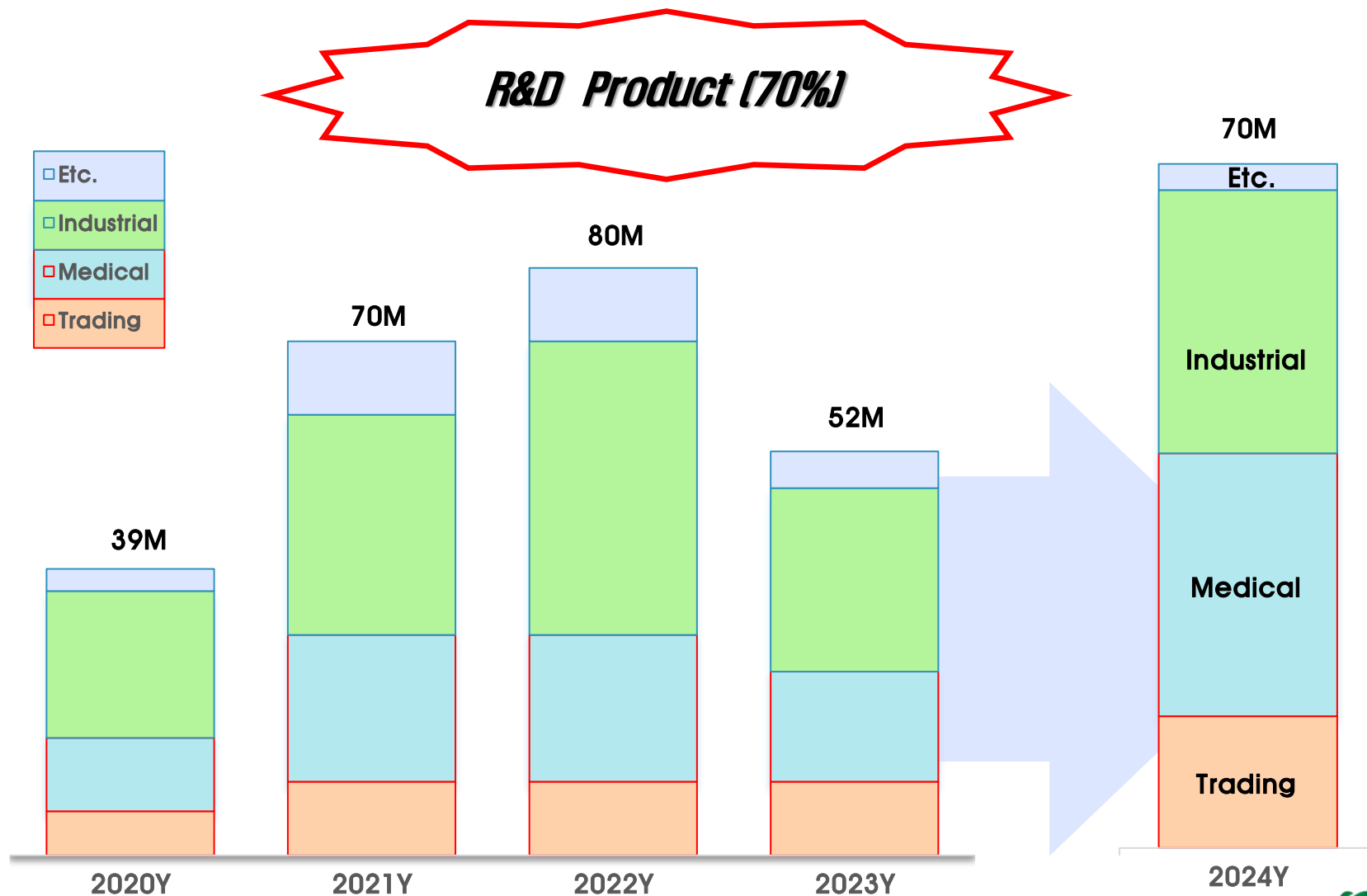
Date : 25.01.02



Department	Members
R&D	4
Marketing	3
Production	2
Supporting	2
Total	11



Sales Status



Customer

Inspirnet is committed to being a business partner that provides genuine value to our customers and contributes to their success. We always strive to be customer-centric and optimize our services to provide specialized service.

vatech

OSSTEM[®]
IMPLANT

DY INNOVATE

 **SeoulinMedicare**

OsteoSys

HyVISION
SYSTEM

HYUNDAI
현대에버다임

 **금영엔터테인먼트**

 **KOH
YOUNG
TECHNOLOGY**

SENKO

 **HFR, Inc.**
for Mobile Internet

 **CLASSYS**

rayence

HyVISION
SYSTEM

 **woorien**

vatech emx

VITZRO

**HYUNDAI
KEFICO**

partron

CLIO

Dist. Product 1



SFP Transceiver



Connector 1



RJ45 Connector



Slip Ring



Limit Switch



Motor & Driver



Rechargeable Battery



Push Button Switch

Dist. Product 2



LAN Transformer



AC Power Socket



HDMI Cable



USB Product



LCD, OLED Display Module



RF Cable



UTP Cable



Audio Cable

Dist. Product 3



Gas Sensor



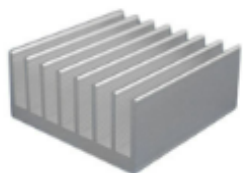
DC/DC, SMPS



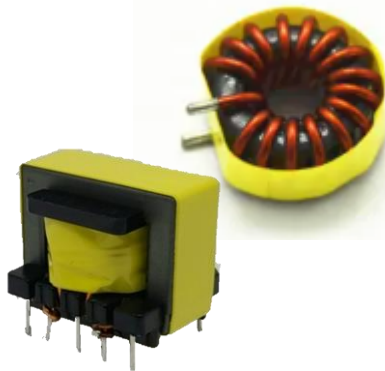
Power Cable



AC/DC FAN



HEAT SINK



Power Trans



Light bar



PoE/PSE

Partner [Branch , Dist.]



DC/DC Converter, LDO
Reset IC, Power Switch

www.analog.com.tw



High Quality Connectors

www.raymoconnectors.com



Stepp Motor/Driver
Servo Motor/Driver

www.We-iTech.com



Push pull connectors
Sensor cables

www.mococonnectors.com



LED Module Product

www.olympialed.com



Electrical Slip Rings
Rotary Unions

www.senring.com



Integrated RJ45 connector,
Optic Transceivers

www.link-pp.com



Limit Switch

www.chinalema.com



LCD Display Module
OLED Display Module

www.winstar.com.tw



Bluetooth Module, RF ID
Wi-Fi Module, ANT

www.zunidata.com



Cable & Accessories
PVC Electrical Cable

www.fulsan.com.cn



DC-DC Converter
AC-DC Converter

www.yuandean.com

Partner [Resale Offer]



Connectors,
Cable assemblies

www.lemo.com



Connectors, Switch
Circuit Breakers

www.schurter.com



Power supplies, Inductor,
EMC/RF Components,

www.tdk-lambda.com



L2 Switch
Medical Digital Signage

www.zunidata.com



Hybrid Stepper Motors
Brushless DC Motors

www.rbmotor.com.cn



Hybrid Stepper Motors
Brushless DC Motors

fiduspower.com



Relays, Switches,
Connectors, Sensors

www.omron.com



LED Switch,
Power symbol switch

www.onpowbutton.com



SMPS, Power adaptor

www.meanwell.com



Actuators, Motors

www.haydonkerkpittman.com



Inductor, Power Choke

www.coilmaster.com.tw



Connectors, Antennas

www.l-com.com

R&D Product [Medical]

IMAGE FRAME GRABBER

■ Purpose : Video signal to video data conversion device

■ Applications : Dental CT/X-ray (wired/wireless)

■ Main features :

- Algorithm embedded in FPGA for various interface integration
- High definition image and real-time processing capability
- Customized Grabber development available

■ Main functions :

- PC PCI-E slot type, hot-swap support
- 32-bit Arm Core CPU (8GB Memory)
- FPGA (Camera/Coaxial/LVDS/Fiber Optic)
- Fiber Optic: 6Gbps Throughput
- Pixel Clock: Up to 300MHz
- Power consumption: Max 677mA@12V



R&D Product [Medical]

Stepping Motor & Driver

■ Purpose : Medical stepping motor & driver

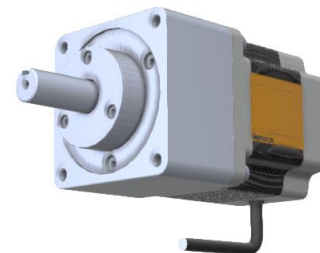
■ Applications : Bone density testing equipment

■ Main features :

- Revision and function design for cost reduction and improved performance compared to existing products
- Optimized and customized Motor Control function circuit design
- I/O Interface custom circuit design

■ Specifications :

- Basic step angle (Full/Half): 1.8° / 0.9°
- Maximum allowable torque: 35kgf.cm ($3.5\text{N} \cdot \text{m}$) or more
- Rotor inertia moment: $490\text{g} \cdot \text{cm}^2$
- Winding resistance: 0.35Ω , rated current: 4A/Phase
- Motor length: 93mm (Gearbox 35mm, motor 58mm)
- Axis type: Single shaft, reduction ratio: 1:5



R&D Product [Medical]

Membrane Switch 3.0

■ Purpose: Medical Membrane Switch

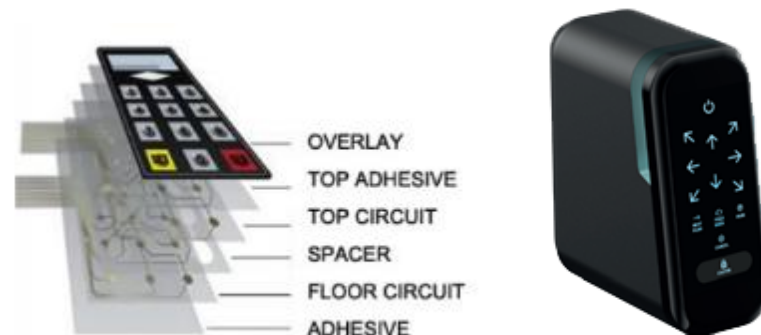
■ Applications : Robotic surgery bed

■ Main features :

- Mobile surgery bed's wired Membrane Switch
- Consists of two types: JOG/LOCK
- 14Key input with I/O and Key Lighting function (IP54)
- CASTER LOCK/Battery control function

■ Specifications :

- Operation implemented by communication (RS485/1Wire) function
- Operation implementation of LED BAR in Red/Green/Blue/White
- Size: JOG 60*130mm/LOCK 140*150mm
- Easily replaceable wired remote control implemented



R&D Product [Medical]

HDMI wireless video transmission module

■ Purpose: FULL HD–grade video wireless transmission device

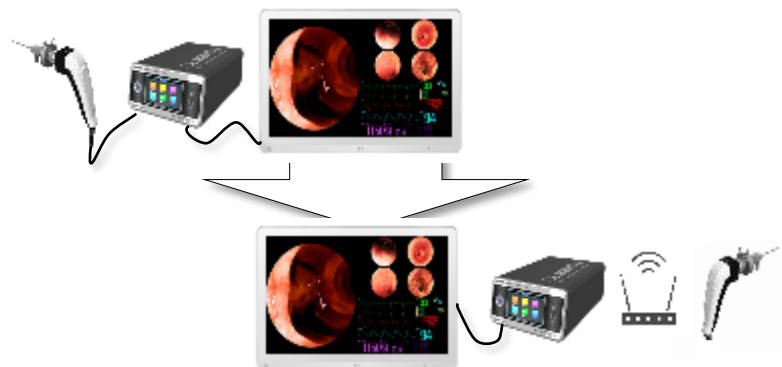
■ Applications : Ear, nose, and throat examination camera

■ Main features :

- Transmits video with the same quality as a wired connection
- Ultra–low power and ultra–low latency transmission
- Supports FULL HD–grade 60Hz resolution

■ Specifications :

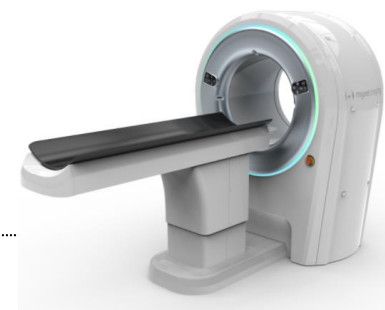
- Real–time latency: 60~90msec
- Low power: 2.4~3.2Watt (typical)
- Long reach: indoor ~ 50m, outdoor ~ 200m
- Compact size
- WLAN: 802.11n 5GHz 2T2R
- Resolution: 1080p, 720p
- WEB UI configuration – SSID, IP address



R&D Product [Medical]

CT Wireless Grabber 2.0

Wireless transmission speed	<ul style="list-style-type: none"> Average speed 500 Mbps or higher (Test environment conditions: 2m distance point to point with a shielded room)
I/O interface	<ul style="list-style-type: none"> USB 3.0 physical port (includes fast charging USB-PD function) Plans to connect 3D camera through USB port in the future.
Additional features	<ul style="list-style-type: none"> Remote MCU Firmware Update function (Renesas RA6M3 (R7FA6M3AH3CFC), RA6M1 (R7FA6M1AD3CFP), / ST STM32F427IIT6) Remote wireless grabber FPGA Update function Alarm Monitoring function Los/Link Fail/Link Error/Reporting Clock variable function (50MHz/125MHz/80MHz/77MHz/60MHz) Added USB 3.0 Port (USB C Type, PD function) Contrast mode (high-capacity transmission function)
Size / Environment	<ul style="list-style-type: none"> Width 185mm x Height 135mm x Depth 70mm Operating Temp : 10 ~ 50 °C , Humidity : 80% RH Storage Temp : -10 ~ 70 °C , Humidity : 90% RH



R&D Product [Industrial]

PCB Plating Equipment Hanger—Smart Terminal

■ Purpose: Measurement of current consumption per PCB plating line

Hanger

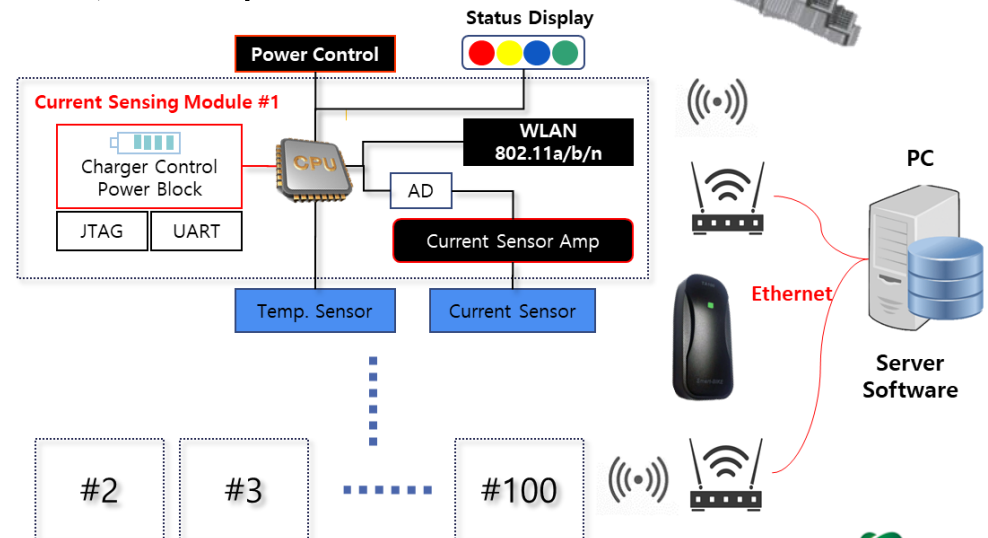
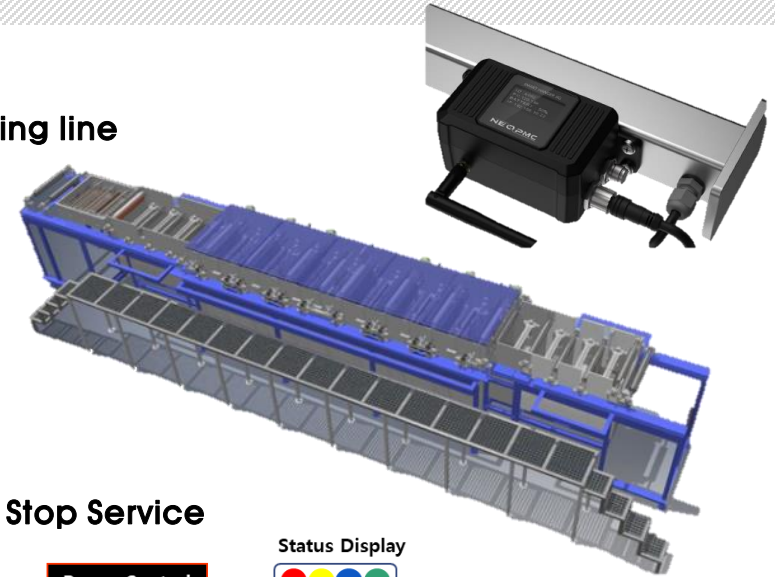
■ Applications : PCB plating equipment

■ Main features :

- Measurement of current consumption per Hanger
- Measurement – wireless transmission – remote control, One Stop Service
- High–speed wireless charging
- Power Saving Mode, Power Latch

■ Specifications :

- Size: 50 x 100 x 50mm (estimated)
- Current measurement: 0 ~ 200A
- Measurement error: $\pm 1\%$
- Resolution: 0.01 (ADC 20bit applied)
- OLED Display



R&D Product [Industrial]

RF module for wireless ticketing device

■ Purpose: Automatic ticket issuance and guidance in sequence

■ Applications : Sequential ticket issuing and guiding device

(bank/store kiosk)

■ Main features :

- Wireless solution certified
- Easily connectable to existing equipment with SPI
- Excellent module adaptability in a compact size

■ Specifications :

- Frequency: 920.1MHz
- Input voltage: 1.8 ~ 3.6V
- Power consumption: 0.5W or less
- Peak/Avg Gain: 1.0dBi / -1.5dBi
- Control method: SPI



R&D Product [Industrial]

LED thermal panel for Tunnel type Automatic car wash

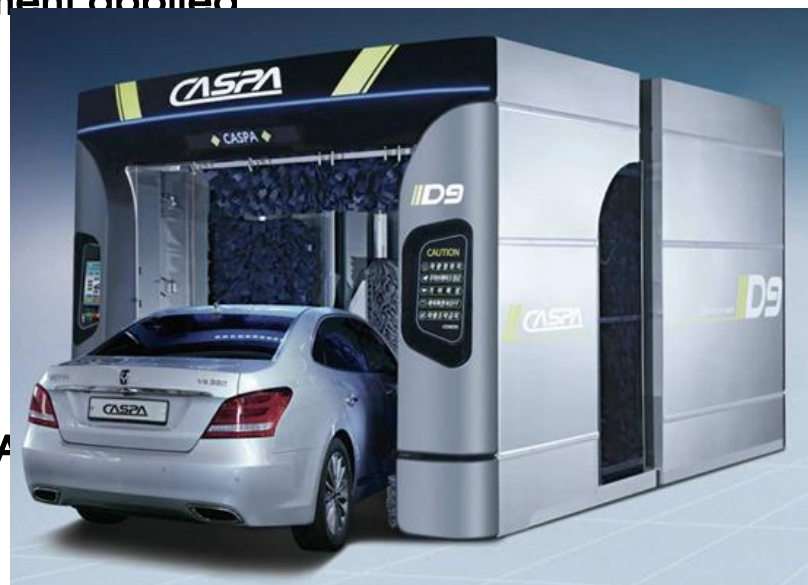
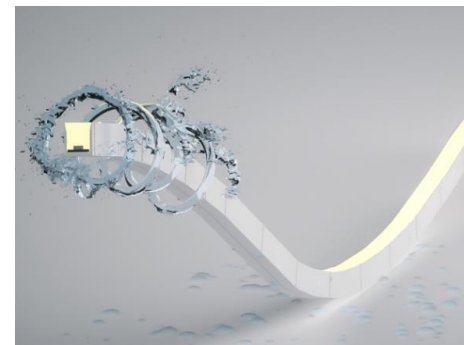
■ Purpose: Tunnel-type automatic car wash

■ Main Features :

- Full Color LED signboard applied
- Red / Green / Blue LED Bar applied
- LED Controller & Remote control for user adjustment applied
- Control through main controller
- Operation based on vehicle location sensor
- IP68

■ Specifications :

- Easily replaceable separated signboard / LED BAR
- High visibility
- Self-durability and waterproofing applied



R&D Product [Industrial]

Specialized vehicle crane wireless remote control

- Purpose: boom control, etc.
- Applications : Crane vehicle
- Main features :
 - Convenience of adjustment and setting
 - Function to set various operation conditions
 - Portability
- Specifications :
 - Valve output: Based on 12V (+6 (18V), -6 (6V), neutral output)
 - Change output setting time
 - Set operation time and voltage



Certification

[문서번호: OeAB-VHPh-xEtS-UuTh]

[발급일자: 2024년 09월 06일]

제 2023111088 호

기업부설연구소 인정서

1. 연구소명: (주)인스퍼넷 기술연구소
[소속기업명: (주)인스퍼넷]
2. 소재지: 경기도 화성시 동탄대로23길 121
우미뉴브 8층 (영천동) 803호,804호
3. 신고 연월일: 2024년 08월 14일
(최초인정일: 2023년 3월 7일)
※ 변경내역: 벤처기간 및 소재지 변경
※ 유효기간: 2026년 5월 9일(벤처유료기간까지)

과학기술정보통신부

「기초연구진흥 및 기술개발지원에 관한 법률」 제
2제1항 및 같은 법 시행령 제27조제1항에 따라 위
기업부설연구소로 인정합니다.



2024년 9월 6일

한국산업기술진흥협회



발급번호 제 20230510020011 호

벤처기업확인서

CERTIFICATE OF VENTURE ENTERPRISE



- | | |
|---------|--|
| 기업명 | 주식회사 인스퍼넷 |
| 사업자등록번호 | 271-81-00106 |
| 대표자 | 장병균, 장용운 |
| 주소 | 경기도 화성시 동탄대로23길 121 (영천동) 803호,804호,805호 |
| 확인유형 | 연구개발유형 |
| 유효기간 | 2023년 05월 10일 ~ 2026년 05월 09일 |

위 기업은 「벤처기업육성에 관한 특별조치법」
제25조의 규정에 의거 벤처기업임을 확인합니다.

2024년 07월 16일

벤처기업확인기



이 확인서는 「벤처기업법」 제25조의3(벤처기업확인기관의 지정 등)에 따라 지정된 벤처기업확인기관
(사)벤처기업협회가 벤처기업종합관리시스템을 통해 정보를 확인하고 발급한 확인서입니다.
(벤처기업확인기관 지정기간: '20.7.1~'26.6.30)



문서확인번호: 20240313169191

제R210601-00520호

기술혁신형 중소기업(Inno-Biz) 확인서

- 제명: 주식회사 인스퍼넷
- 표자: 장병균, 장용운
- 소: 경기 화성시 동탄대로23길 121
803호,804호,805호(영천동,우미뉴브)
- 급: A
- 기간: 2024. 05. 20 ~ 2027. 05. 19

업체는 기술혁신형 중소기업 육성사업에 의해
린 기술혁신형 중소기업(Inno-Biz)임을 확인
다.

2024년 5월 20일

중소벤처기업부장관



Certification

특허증

CERTIFICATE OF PATENT



특허

Patent Number

제 10-1779749 호

출원번호

Application Number

제 10-2017-0094633 호

출원일

Filing Date

2017년 07월 26일

등록일

Registration Date

2017년 09월 12일

발명의명칭 Title of the Invention

네트워크 기반 다중 카메라 영상 처리 및 데이터 전송 방법 및 그 시스템

특허권자 Inventor

주식회사 인스피넷(134811-*****)


경기도 화성시 영통로27번길 14-12, 1층

발명자 Inventor

등록사항란에 기재

위의 발명은 「특허법」에 따라 특허등록원부에 등록되었음을 증명합니다.

This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.



특허청

Korean Intellectual Property Office


2018년 12월 27일

특허청장

COMMISSIONER

KOREAN INTELLECTUAL PROPERTY OFFICE

박원주



대한민국 전자출원특허사실을 확인하세요

기업개요

기업명	(주)인스피넷
대표자	강병근 외 1명
법인등록번호	134811-0043682
사업자번호	271-85-00105
본사주소	(0486) 경기도 화성시 동탄대로 685, 1층 1406호 (영통동, 인스피넷(주)인스피넷) 차
업종	(C26230) 그 외 기타 전자부품 제조업
주요제품명	전자제품 외
종업원수	10명 (전주소 소속 2명 포함)
기업규모	소기업 (업종별 평균매출액의 선정 기준)

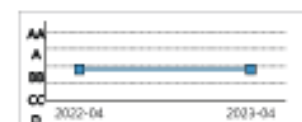
경영규모 (단위: 백만원)	재무기간	총자산	남향재분금	차기자산	매출액	순이익
	2022-12-31	4,514	100	1,769	7,880	319

신용등급

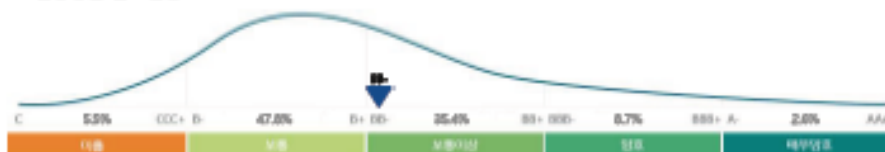
기업신용평가등급	신용등급
BB-	CR-3
평가기준일	2023년 04월 21일
재무기간	2022년 12월 31일

신용등급이력

평가기준일	재무기간	신용등급	변동
2023-04-21	2022-12-31	BB-	-
2022-04-25	2021-12-31	BB-	

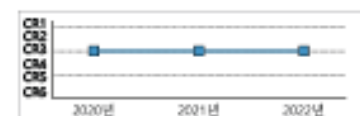


신용등급 분포현황



현금흐름이력

NR	NF	CR-6	CR-5	CR-4	CR-3	CR-2	CR-1
관정보류	관정제외	대중	보통이하	보통	보통이상	양호	매우양호
월말 현금흐름당월동향							



등급평정의견

동사의 업력7년, 대표자의 동업계 경력13년, 매출수익(2022년 결산기준 매출액 7,880백만원, 매출액증가율 35.47%, 재무안정성(부채비율 125.84%과 차입금의존도 28.85%, 수익성(영업이익률 4.30%, 현금창출능력(보통이상)과 함께 경제의 경제개선 및 시장환경 변화에 따른 판매량 및 매출액의 증대, 재무구조의 변동가능성과 적용액 등을 종합적으로 고려해 대 신용등급에 보통이상 수준으로 판단되어 신용등급을 BB- 등급으로 평정함.

Inspirnet Map

■ Address : #804, 8F, Woominuww, 121, Dongtan-daero 23-gil,
Hwaseong-si, Gyeonggi-do, Republic of Korea

■ T E L : 031-203-8921

■ F A X : 031-206-8633

■ M A P



Thanks You !



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