Body Temperature Monitoring and Mask Detection System

體溫監測和口罩識別系統

By MEET Solutions Limited

May 2020

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KARIN GROUP

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MEET SOLUTIONS
Modern Era Evolved Technologies

MEET Solutions Limited (MEET) Introduction

- MEET, a Karin Group fully owned subsidiary in Hong Kong, is a forward looking company focused in helping customers transform and adapt to new technologies solutions.

- Karin Group has been renowned for its technological strength in technology businesses from IT to components, from IT infrastructure to Security, from industrial power to consumer electronics. With MEET Solutions, the company is building towards a connected market of solutions that drive innovation and connectivity.

- In the support for “Smart” adoption and transformation in digitizing towards new technologies, MEET is now delivering and support to IoT related businesses in our customers. Our capability to deliver end-to-end total solution includes sensor solutions, edge gateways, IoT platform and end-user interface (Web/Android/iOS) in Private/Hybrid/Public Cloud.

Virtual Domains Focused

Smart Healthcare

Target Customers:

- NGO
- Elderly Home
- Day Care Center
- Hospital

Smart Call Center

Target Customers:

- Enterprise
- SME
- Telecom
- Call Center

Smart Office/Building

Target Customers:

- Enterprise
- SME
- Engineering Company

High-Level Solution Architecture

Thermal Camera

Network Video Recorder

Monitor

Keyboard and mouse

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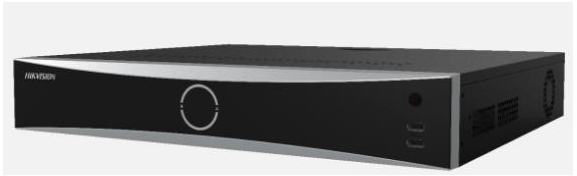
Hardware Introduction

Thermal Camera

- Hikvision 2TD1217B-3PA
- Accuracy: +/- 0.5°C
- Vanadium Oxide Uncooled Focal Plane Arrays
- Optical resolution: 2688 x 1520
- Thermal resolution: 160 x 120
- IP66 standard, TVS 6000V lightning protection
- Dynamic fire point detection

Network Video Recorder



- Hikvision iDS-7716NXI-I4/16P/X(B)
- Supports both facial recognition and false alarm reduction based on deep learning
- Supports multiple VCA (Video Content Analytics) events
- Up to 320 Mbps high incoming bandwidth ensures IP cameras can be connected
- 2 HDMI (different source) and 1 VGA interfaces
- 4 HDD can be used for continuous video recording
- Up to 16 channel video analysis for human and vehicle recognition to reduce false alarms
- Up to 8 channel facial recognition

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Functions and Features

- Multiple detection for body temperature
- A.I. engine to recognize human face or object
- Avoid false alarm on hot objects

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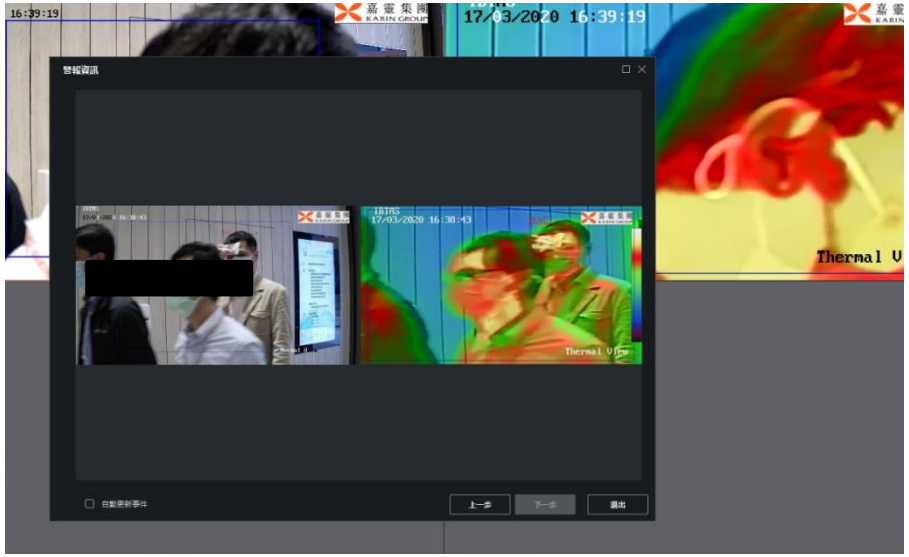
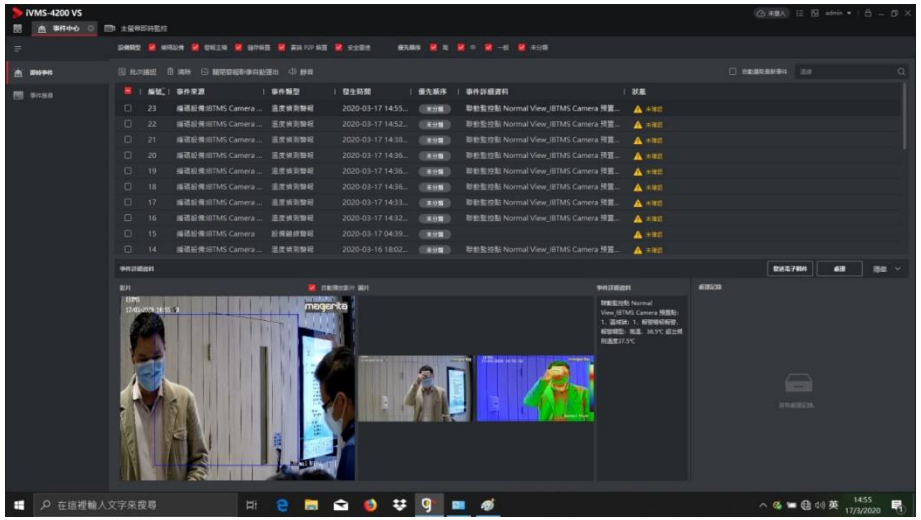
Functions and Features





- Pop-up notification for abnormal temperature detected
- Light and sound notification
- Abnormal Temperature can set by user

- Save picture and 10s video when abnormal Temperature detected (5s before and 5s after event happened)
- Can trace on past record
- Record storage depends on HDD size

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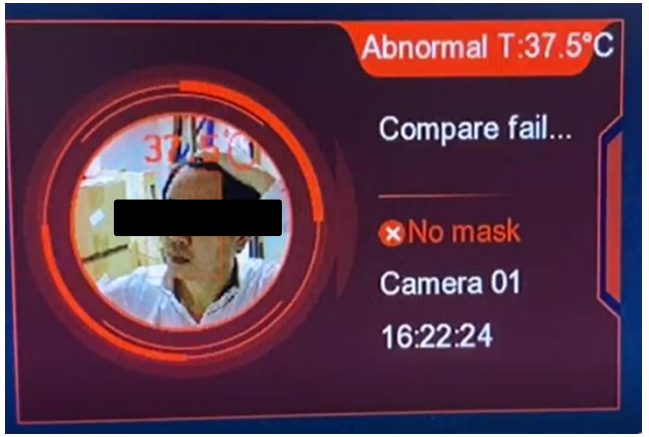
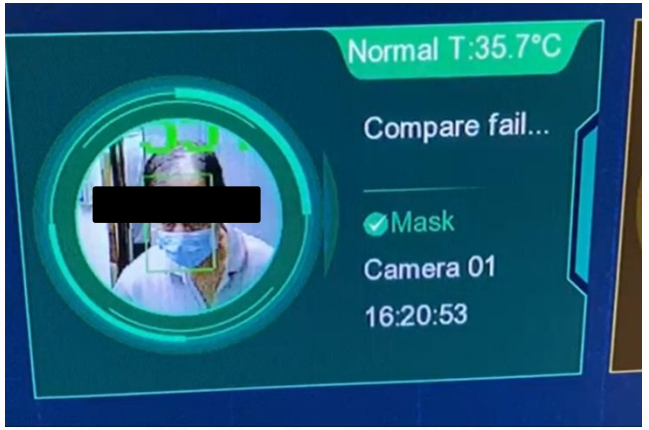
Functions and Features





A.I. engine for mask detection

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KARIN TECHNOLOGY HOLDINGS LIMITED

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CORPORATE PRESENTATION

2020 February

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Modern Era Evolved Technologies

Our Strategic Focus

Karin KESCO Component Distribution

Experienced regional distribution and engineering teams to drive our carrying innovative products to customers

Karin Group IT Distribution

Significant and growing portfolio of Infrastructure, Network and Security, and Applications brands driven by strong sales and technical teams.

Industrial Components Distribution and Solutions

Driving growth in power solutions and new technologies (e.g. EV, power modules) across Greater China and Singapore

Compucon Consumer Products Distribution

Expanding and penetrate the retail channels with premium consumer electronic products

Karin IT Group Cloud Services

Multi Cloud Ecosystem under SST Distribution of Alibaba Cloud, and Masterson AWS Advanced Consulting MSP

Karin Group IoT Ecosystem

Teaming with SoftChef and extending to Karin Group carrying brands to drive IoT Cloud Platform business from Asia

Karin Group Smart Solutions Ecosystem

With Cloud-Ready IoT platform to drive integrated solutions with alliance of technology partners

Karin Group Healthcare Solutions Ecosystem

Partnering with healthcare device and equipment providers to value add integrated services and solutions under the smart healthcare group initiative

KARIN GROUP AT A GLANCE

- A leading HK-based electronic and industrial components and IT solutions distributor and services provider
- Established track record since 1977
- Listed on SGX Mainboard since March 2005
- Strong Asia Pacific presence and network
  - Around 380 staff across 25 subsidiaries and offices in the region
- Established business and distribution channels in Hong Kong, Beijing, Qingdao, Xiamen, Shanghai, Shenzhen, Chongqing, Changsha, Xian and Singapore
- Diversified base of more than 1,000 customers across various sectors

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Karin Group FY19 At A Glance

14.4%

Consumer Electronic Products

We have experienced a continued growth in product lines and revenue in the CEP
Strong volume on audio products riding on the new product releases over the year.

43.7%

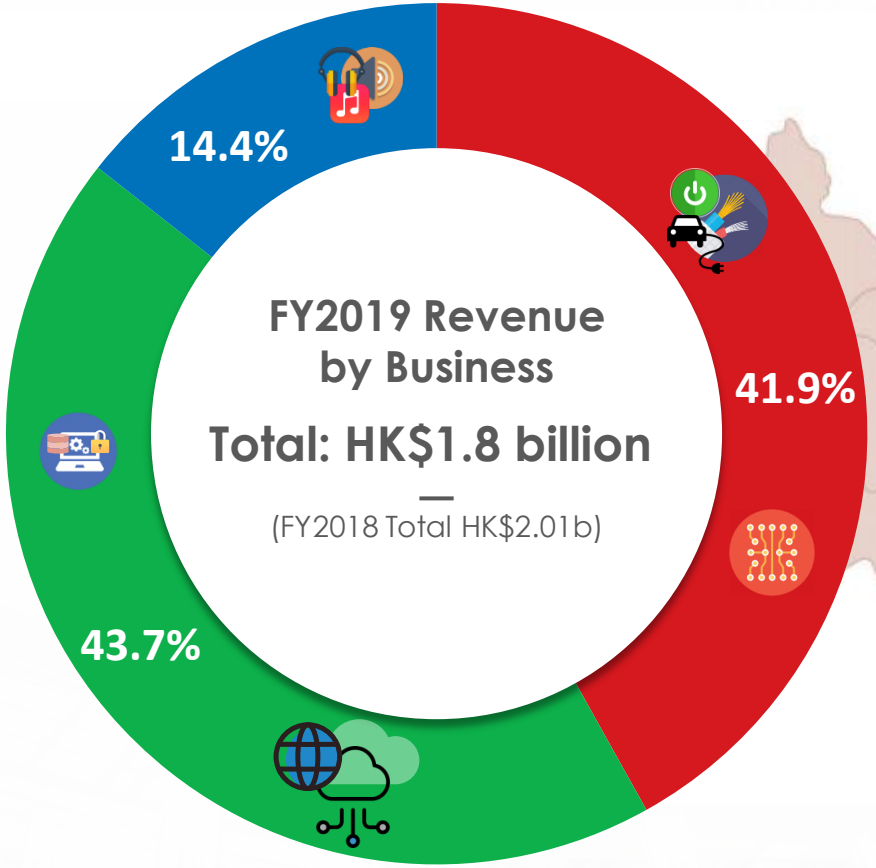
IT Distribution and Solutions

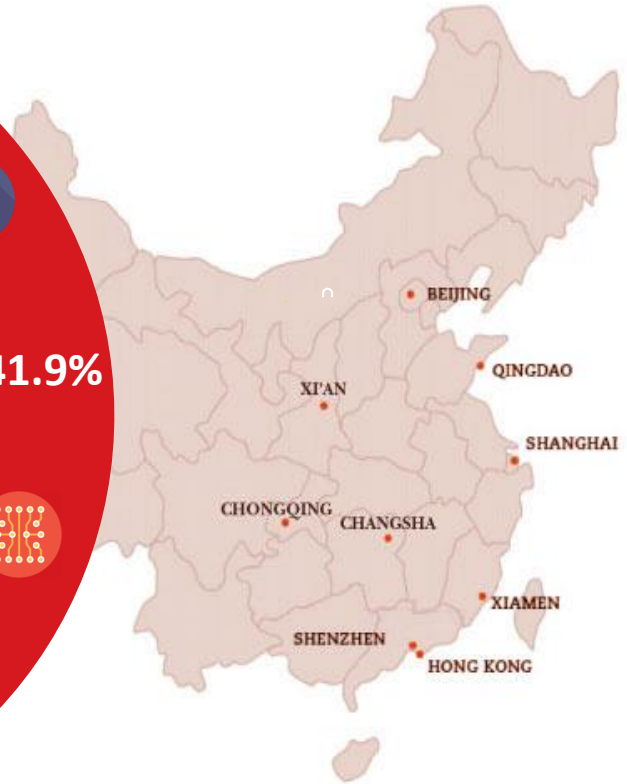
IT Group had experienced strong growth in sales on products and projects
The diverse business nature of the IT Group had contributed into the growth – Cloud, Infrastructure, Network & Security, Applications & Business Intelligence.

41.9%

Component Distribution

Components Distribution continued to expand into more vertical solutions
Consumer Electronics established coverage in ASEAN via Singapore..





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Corporate Milestone

1977

- Karin Electronic Supplies Co. Ltd. established in Hong Kong
- Electronic Components Group was established

1984

- Computer Products Group was established

1985

- Industrial Materials & Instrumentation Group was established

2000

- Subsidiary New Spirit Technology was formed
- Karin established presence in Shanghai

2001

- Subsidiaries Compucon Computers, Kepro Solutions, Sen Spirit Technology were formed
- Karin established presence in Shenzhen

2004

- Karin established presence in Beijing

2005

- Karin Technology Holdings Ltd listed on the SGX Mainboard

2006

- Karltec Information System was established

2011-12

- KCF A Store (trading as In-Smart was formed)
- In-Smart store was set up in Sham Shui Po, Causeway Bay, Prince Edward and Tsim Sha Tsui

2017

- Celebrated 40th Anniversary of the establishment of Karin Group

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Our Core Businesses

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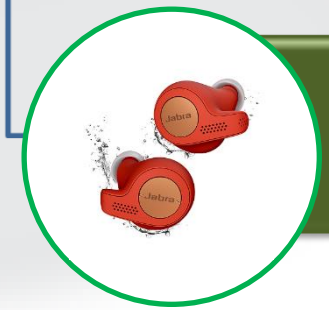
Components

- Components Distribution
  - Electronic Components
  - Industrial Materials & Instrumentation
- IC Application Design & Technical Support
  - Toys
  - Non-Toys

Information Technology Group

- System Integrated Solutions
  - Product Solutions
  - Integrated Solutions
- Professional Services
  - Systems / Storage / Network & Security
  - Application Consultancy
- IT Infrastructure, network & Security Solutions Distribution
  - Systems / Storage / Netowrk & Security
  - Cloud platforms, BI Tools



Consumer Electronics Products

- Consumer Products Retail
- Distribution of Consumer Electronic Products
  - Headphones, Speakers, Smart Wearables, Earphones & Accessories

Management and Investment Merits

Corporate Strategy

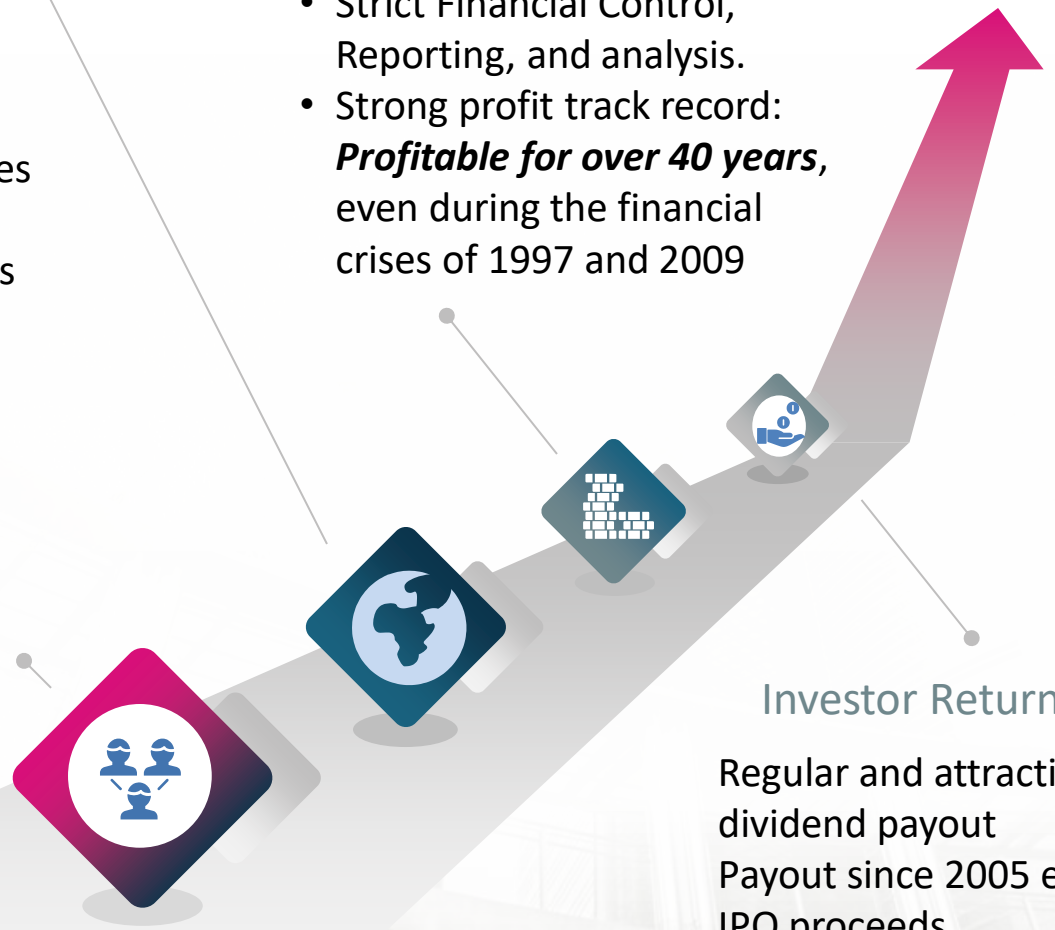
- Business growth through product and service expansion.
- Develop solutions and business lines along technology trends in
  - Smart Projects (IoT, AI devices and Smart facilities)
  - EV and Power solutions
  - IT (Cloud and Security)

Management Team

- Experienced management team in both technology and operations
- Risk and financial controls in place

Healthy Finance

- Strict Financial Control, Reporting, and analysis.
- Strong profit track record: ***Profitable for over 40 years***, even during the financial crises of 1997 and 2009



Investor Return

Regular and attractive dividend payout
Payout since 2005 exceeds IPO proceeds

KARIN Group has a great track record for its financial and business performances over the 40+ years since incorporation.

Post listing in 2005, the returns generated to shareholders is uncomparible to industry peers.

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Corporate Strategy

Karin Group believes in continuous business innovation and technology expansion in order to drive business growth.

IoT and Value Add Solutions

Capturing the demand for solutions in new markets on power and electronic components in power, wireless application devices, and smart devices

Consumer Products Expansion

Riding on the success in sales in the CEP products and expand more prestigious consumer electronics products into the Group's product mix

Distribution Growth

To strengthen the company's portfolio in leading solutions and seek every possible opportunity to secure more distributorship rights

Information Technology

Riding on the digital transformation of businesses, delivering solutions in Cloud, Software Defined Solutions, Network & Security, and Data Analytics

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Business Highlights

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Electronic Components Group

[Subsidiaries]

- 8 subsidiaries, covering HK, Greater China and Singapore
- Distributes varieties of electronic components and industrial materials products for more than 40 years

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LED Lighting/ Smart Device/ Flash based RCU	Crystal, Oscillator & TCXO	Automotive & mobile device fast charging	Ultra-low power consumption MCU	Board-to-Board Connectors/ Board-to-FPC Connectors/ FPC/ FFC/ RF/ Coaxial/ Automotive Connectors
Dragonchip 龍微電子	HKC 香港晶體	HT	CEC HDSC 华大半导体有限公司 HUADA SEMICONDUCTOR CO.,LTD.	HRS
Crystal Filters, Resonators & Oscillators	Optoelectronics	Li-ion Capacitor	HPC & IoT Battery	LCC (Lithium Carbon Capacitor)	Glasses-free 3D technology
KDS DAISHINKU CORP.	LITEON®	LISUN 力興	LONGSING ENERGY	MAN YUE TECHNOLOGY HOLDINGS LIMITED 萬裕科技集團有限公司	MARVEL DIGITAL LIMITED
Low power LTE-M & NB-IoT/ Direction Finding/ BLE/ Bluetooth 5/ Zigbee/Thread/ ANT/ 2.4 GHz Proprietary	Consumer Speech/ ISD Voice ICs/ CODECs	LCD Module	MCU for Wireless Application & Web-Cam	Diodes,MOSFET & Power IC	AI system development environment
NORDIC SEMICONDUCTOR	nuvoTon	南亞塑膠工業股份有限公司 NAN YA PLASTICS CORPORATION	SONiX SONIX TECHNOLOGY CO., LTD	ShinDengen New power. Your power.	skymizer
SSD NAND controller/ MEMS Microphone	VCM Driver IC, Piezo Driver IC & BLDC Vibration Motor Driver IC	4/8 bit MCU & Touch Control IC	Switching, Zener, Trigger, Schottky, Rectifiers, MOSFETs, AFC Diodes, Transistors	High quality Printed Circuit Board (PCB)	Cortex M0+ ULP MCU, RF Switch, Ambient & Proximity Sensor
Solid State System	SNA SENSE AND ACTUATE	Tenx	德昌電子(集團)有限公司 TAK CHEONG ELECTRONICS (HOLDINGS) CO., LTD.	億	上海新微技术研发中心

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Industrial Connector/
Surge Protection Device/
Signal Transducer

PHOENIX CONTACT

Electronic & Electrical
Connector

HRS HIROSE

AD/DC DC/DC
Power Supply

COSEL

Electrical & Special
Cables

IMIKABEL

Handling Cables

Nexans

Industrial
echnical Products

REIFF
Stark im Service

Capacitor

Hitachi AIC Inc.

DC/DC
Power Supply

P-DUKE

Power Semiconductor

IXYS Corporation

Power Semiconductor

SHINDENGEN

Rechargeable Battery

新神戸電機株式会社

AC/DC, DC/DC
Power Supply

HUAWEI

AD/DC DC/DC
Power Supply

ARCH
ELECTRONICS CORP

Industrial Materials And Power Solutions

IT Group Subsidiaries

Distribution Business

KESCO

Karin Groups' flagship distributor and is providing enter[rise grade infrastructure solutions to HK and Macau

SEN SPIRIT TECHNOLOGY

A cloud distributor as well as strong player in IT infrastructure and the network and security products.

COMPUCON

Compucon has built itself as a reputable distributor with diversified blend of well-known technology brands and consumer products.

System Integrator Business

KEPRO SOLUTIONS

IT solutions provider to enterprises in Hong Kong – IT infrastructure (cloud, server and storage), and a premier VAR in leading brands.

MEET SOLUTIONS

Modern Era Evolved Technologies in both IoT related and Smart Solutions to customers. From Healthcare related solution to IoT platform driven smart solutions.

KARGA SOLUTIONS

Solution provider in Enterprise grade ERP and applications to enterprise customers

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Enterprise Information Technology Solutions

HUAWEI

Information Infrastructure Solutions

DELL Technologies
AUTHORIZED DISTRIBUTOR

Application and Software Solutions

HCL SOFTWARE
Business Partner

Security and Cloud Security Solutions

Menlo Security

IBM Software Group

IBM Business Partner

Network Security Solutions

McAfee

Cloud Security Solutions

Skyhigh

Printers and Monitors

SAMSUNG BUSINESS

Networking and Wireless Solutions

Ruckus
Simply Better Wireless.

Network Solutions

Colasoft
Maximize Network Value

Network Security Solutions

NSFOCUS

Business Intelligence Database Technology Mobility

SAP Distributor

Network Security Solutions

RAPID7

Network Security Solutions

SANGFOR

LED TVs

SHARP

Enterprise Cloud Solutions

Alibaba Cloud

Application Delivery Network Solutions

f5

Security Management Platform

algosec

Network Intelligence

sandvine

Database, Middleware, Application Software & Network Computing Solutions

ORACLE Platinum Partner
alue Added Distributor

Networking Solutions and Services

ARISTA

Information Management Solutions

COMMVAULT

Backup and Recovery Solutions

VERITAS

Data Virtualization

+ableau

Server and Storage Solutions

Hewlett Packard Enterprise

Enterprise Integration Solutions

MuleSoft

Data Managment , ETL Tools & Integration

talend

Consumer Products Distribution

Consumer Electronics

beats by dr. dre

Consumer Electronics

jaybird

Monitors and Displays

SAMSUNG

Consumer Electronics

Jabra GN

Consumer Electronics

POLAR.

Consumer Electronics

logitech

Consumer Electronics

ULTIMATE EARS

Health Monitoring Device

CLOUDMED

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Company Facilities

- Karin Building
- Owned WAREHOUSE
- Theater Room
- Demo Room
- Staging Room

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Channel Network

World Wide Technology

orange

vodafone

AUTOMATED ASL

jos

Jardine OneSolution

MACROVIEW TELECOM

ICO Group Limited 揚科集團有限公司 SEHK 1460

EXPERT

GLOBAL•TECHNOLOGY INTEGRATOR GTI

NKO NIKOYO

MICROWARE Your Trusted Partner Since 1985

KEPRO

ncs making IT happen

ICON SURPASS 25 ANNIVERSARY

Atos

NEXIFY

TechData

dimension data

IBM

NetCraft 天網

kinetix

ITChannel Valued Technology – Professional Service

Hewlett Packard Enterprise

WTT

ObjectValley

VastCom Technology Limited

kenfil

EASTECH systems LIMITED

PCCW HKT

BoardWare

MASTER CONCEPT

FUJITSU

softwareONE

TechCreations. Where Applications meet the Network

Multisoft The source of technologies

CMAX

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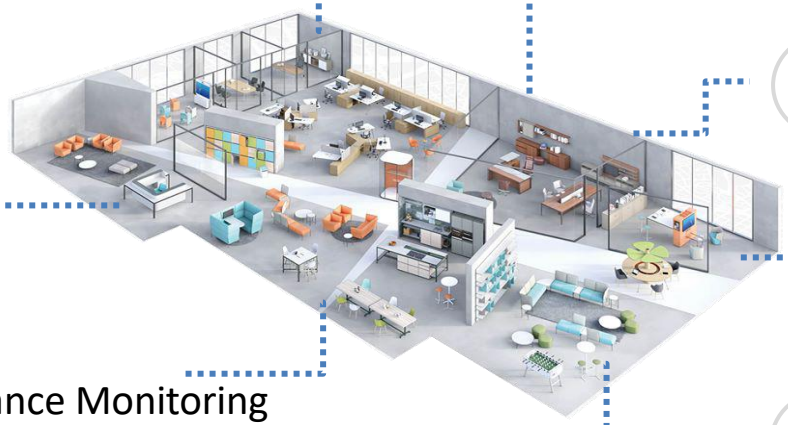
Over 300 active resellers for IT Group

SMART OFFICE CONCEPT

Meeting room

Sensors



AI face recognition

Smart Film

Security solution

System Performance Monitoring

Healthcare Station

Solar charging system

Smart car parking

Smart street light

KIOSK

Electric vehicle charging system

System performance monitoring

Security system

SMART CAMPUS CONCEPT

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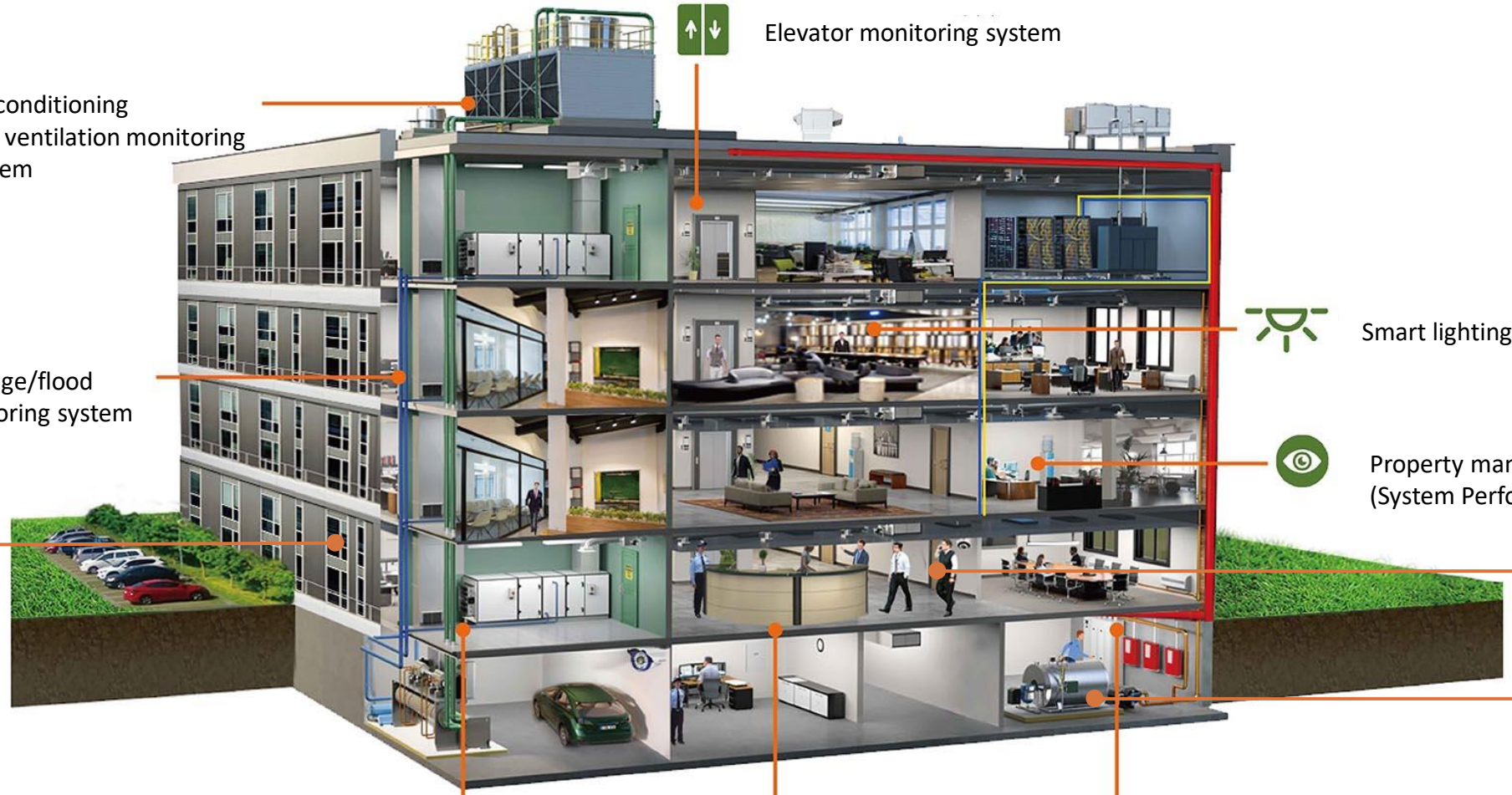
SMART BUILDING CONCEPT



Elevator monitoring system

Air conditioning and ventilation monitoring system

Smart lighting system

Drainage/flood monitoring system

Property management (System Performance Monitoring)

Smart film

KIOSK

Pump predictive monitoring system

Smart security system

Energy management system

Fire monitoring system

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Thank You

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