AI Face & Temperature Recognition System Brand

AI

Face Recognition Temperature Measurement Camera

Seoshin Ltd.

CONTENTS

- **Guidelines for keep distance in daily life**
- **Preparations for school quarantine against Covid-19**
- **Self-isolation management**

Comply with government policy

To prevent the spread Covid-19

System construction/ operation performance

- **through video recording in one operating system, ensures identifying movements accessing DB**
- **Control access by integrated monitor and camera**

Product reliability and detection DB accuracy

- **It is interlocked with alarm function such as presence of mask, measurement of temperature, guidance voice, text display, warning light and siren. Set the device by remote control on your phone.**
- **considering public interest, effective in preventing infection, it measures non-contact temperature**
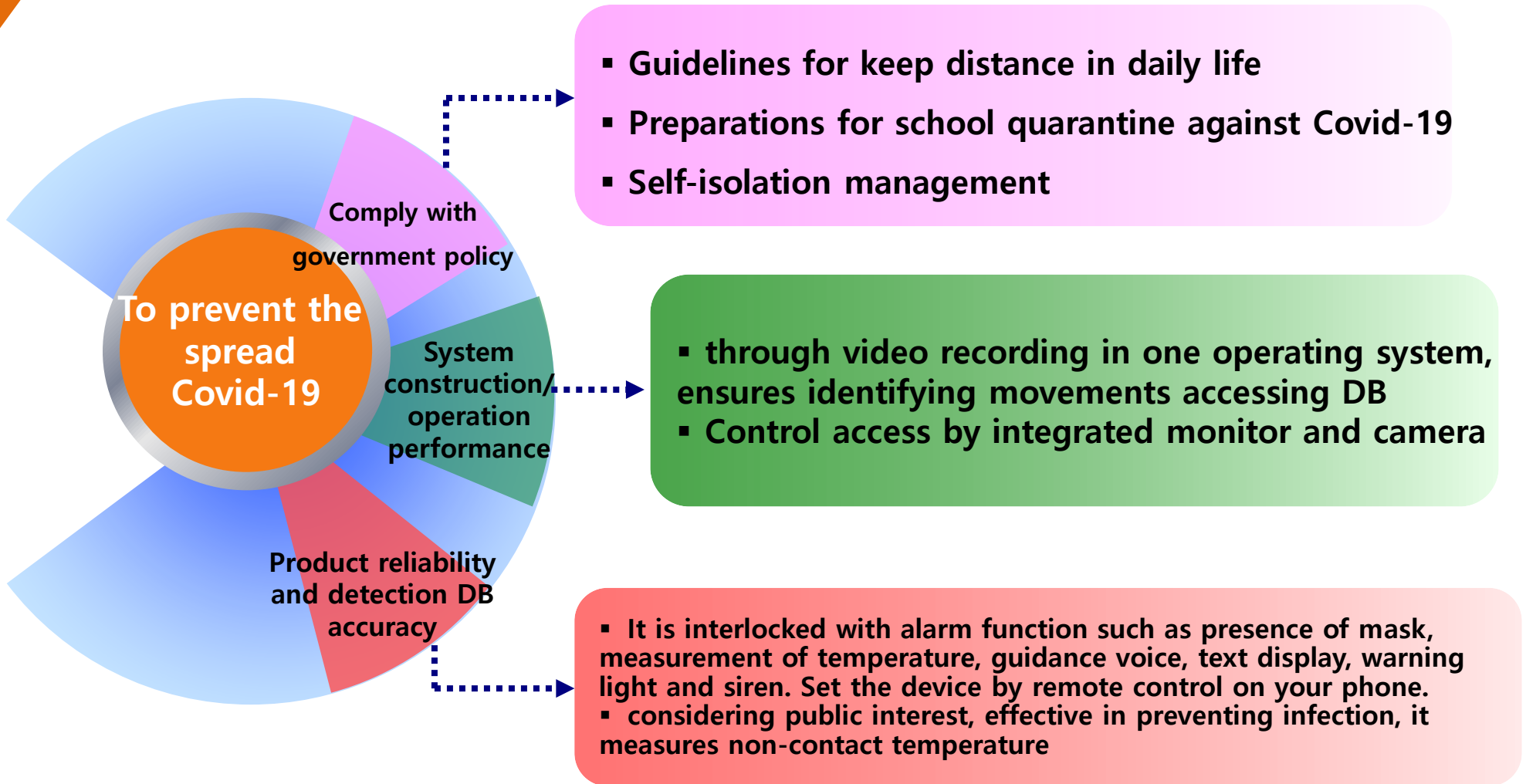
Ⅰ. Necessity of System

Ⅰ - 2. Before & After the system operation

Safety — Potential infection risk due to direct measurement by the investigator

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Safety — Pre-blocking infection elements in a non-contact way
Recognition from 0.5 ~ 2.5M

Speed — accumulate fatigue through waiting time and repeated measurement

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Speed — Faster line pass through maintaining a certain distance
Real-time monitoring ☞ Recognition ☞ comparison ☞ approval (0.2s)

Accuracy — impossible to measure individual temperature due to the overlapping of multiple personnel.

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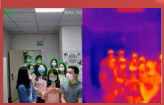
Accuracy — DB creation and management for individual pass records
Deep learning algorithm ensures 99.5% accuracy

Cost — Dual thermal camera. inappropriate device cost

≫

Cost — System construction and management at low cost
Can operate by single camera

Compatible — securing compatibility with operating access control systems

≫

Compatible — Interface interoperability with various systems
Access control system, customer management, enterprise resource management

Temperature error range : ± 32.5 °F

25,000 Data registration

7-inch IPS HD LCD screen

Recognition speed below 200㎳ (300persons per 1min)

Identification of wearing mask

99.5% Accuracy

Facial and temperature measurement Up to 2.5m

Real-time ▶ Capture ▶ Compare▶ Approve

Registration / non-registration identification

11:24

36.35

외부인
정상체온입니다.

AI Facial recognition & temperature measuring device

1. Face recognition and temperature measurement possible at a distance up to 2.5 meters and accurate temperature measurement is possible. (error range: ± 32.5 °F)

2. Traditional temperature measuring devices are inefficient and inconvenient because they must be carried by a person and only measure the temperature at a short distance.

3. AI-High Accuracy Face Recognition Body Temperature Camera avoids physical contact and saves manpower.

4. People who are not wearing masks and outsiders can also be detected.

5. It is convenient to check the number of people entering and exit by automatically recording the face of a person and to solve secondary problems..

6. Automatically record abnormal temperature information and related personnel.

7. By adopting deep learning algorithm, it supports 25,000 registered faces and speed recognition of 200Ms (appx. 0.2 sec), can pass quickly, and can be interlocked with access control.

8. It supports internet data transmission, so you can upload and store device comparison results and photos in real time and install them easily.

9. The system cost lower than the existing thermal imaging camera

II-3. Platform Operating Instructions

Remote configuration

Configuration	X

Basic Param | Network Config | Identification Param | Remote Config | Version Info | Function Param

Restart Terminal Device	Restart
Upgrade Firmware	Please choose ▼
Volume Setting(0-84)	75
Screen Brightness Setting(45-100)	60
Light Supplementary Settings	●
Snap report address	:80
Restore Factory Settings	Restart

Restart, upgrade, volume, brightness, snapshot upload

Version Information

Configuration	X

Basic Param | Network Config | Identification Param | Remote Config | Version Info | Function Param

Model	FRD
firmware Version	FK02GYW_P4_V20.1.13.1
Serial Number	7101185847926
apk version	

Estimated version information view

Function parameter

Configuration	X

Basic Param | Network Config | Identification Param | Remote Config | Version Info | Function Param

Temperature Detection	●
Alarm Temperature	37.299999
Stranger Can Open	●
Check Mask	●

Cancel   Set Up

Temperature measurement, alarm temperature, stranger, detection mask

* Capture the address, fill in the client's local computer IP address, port 80, and automatically upload all detected face pictures to the server.

Device function configuration

Configuration

| Basic Param | Network Config | Identification Param | Remote Config | Version Info | Function Param |

Device Name   7101185847926

Device Password   •••••

Equipment Time(Synchronize with the server)   🔴

Cancel   Reset   **Set Up**

Configuration

| Basic Param | Network Config | Identification Param | Remote Config | Version Info | Function Param |

IP Address   172.18.184.209

Subnet Mask   255.255.248.0

Gateway   172.18.189.189

DNS1   192.168.1.1

DNS2   8.8.8.8

Cancel   Reset   **Set Up**

Configuration

| Basic Param | Network Config | Identification Param | Remote Config | Version Info | Function Param |

Capture the number of faces(1-4)   1
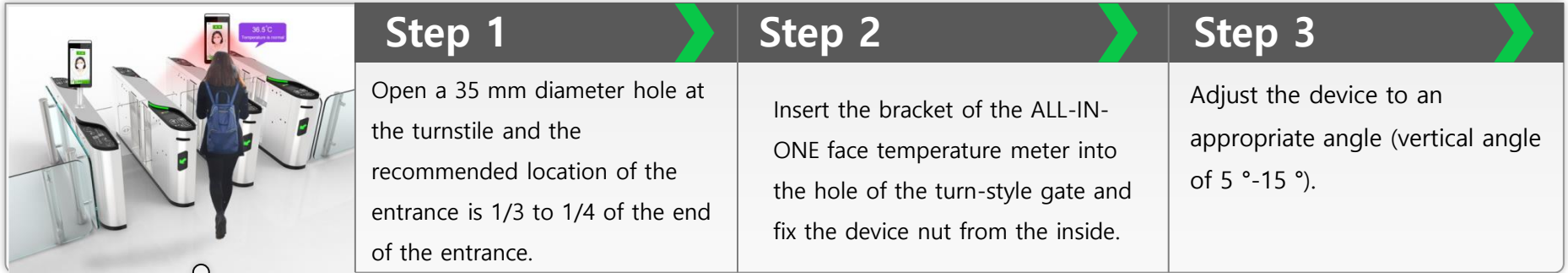
Time interval for identical person recognition(1-5s)   1

Cancel   Reset   **Set Up**

Device name, password, time   Network address configuration   Capture interval setting

Ⅲ - 1. installation

- Install Type : entrance Gate
- Apply Place : Office/ Large building etc

Step 1
Open a 35 mm diameter hole at the turnstile and the recommended location of the entrance is 1/3 to 1/4 of the end of the entrance.

Step 2
Insert the bracket of the ALL-IN-ONE face temperature meter into the hole of the turn-style gate and fix the device nut from the inside.

Step 3
Adjust the device to an appropriate angle (vertical angle of 5 °-15 °).

Rapid installation and operation in various places

- Install Type : Pole stand type
- Apply Place : Airport / Port / Department Store, etc.

- Install Type : Wall type
- Apply Place: School / Office

- Install Type : Table Type
- Apply Place : Hospital / welfare facilities, etc.

Ⅲ - 2. FAQ

Q) What should I pay attention to when installing?

A) Please be aware of the following when installing.

1) The human face must be placed within the frame on the recognition screen, and no need to fill the area inside the frame.

2) The angle can be adjusted according to the actual height.

3) Turn on the device, warm it up for a while(20min), and test it.

4) The machine is held as tight as possible during the test.

5) When held by hand, shaking can be caused, affecting the accuracy of temperature measurement.

6) If you have bangs, please raise them.

7) For temperature measurement, the area with the highest temperature is applied, and the bangs may be higher than the forehead, so the bangs must be raised.

8) During testing and actual use, test objects and temperature meters should be kept away from heat sources (air conditioning outlets, microwave ovens, heaters, etc.).

9) If there is a heat source nearby, a distance of at least 3 m should be installed.

Q) What platform is required for installation?

A) Please be aware of the following when operating.

1) 64-bit program is required and cannot be used on 32-bit systems.

2) Browser: We recommend the latest version of Chrome or Firefox.

4) If the anti-virus software alarms an abnormal warning, you need to allow all settings of the product or turn off the anti-virus software in advance..

5) For photos uploaded abnormally, check the resolution and clarity, resolution cannot exceed 4K, and for photos that fail to upload recommended to reduce the size of the photos and upload again.
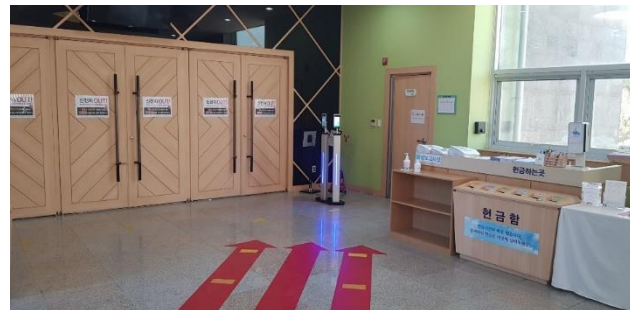
[University]

[Building]

[Church]

IV. Specification

IV - 1. Product Specification

System	Main	MX3520
	Operating System	Embedded LINUX
	RAM	DDR3 512MB
	ROM	EMMC 8GB
Screen	Dimensions	7 inch IPS HD LCD Screen
	Resolution	736*1280
Camera	Type	2MP night vision living detection camera
	Sensor	1/5" GC2145
	Resolution	NIR 800*600 15fps
	Lens	2.4mm
Camera	Type	Daily camera
	Sensor	1/2.8" SONY Starvis Back-illuminated CMOS sensor IMX307
	Resolution	Color 1920*1080 30fps
	Lens	4.5mm
Body temperature detection	Measuring site	Forehead
	Temperature range	96.8 – 107.6 °F
	Temperature measuring distance	0.5-2.5m, 0.75m is the best
	Temperature measurement accuracy	± 32.5 °F
	Temperature measurement response	Face library people: 1.5-2s, Strangers: 2.5-3s

IV. Specification

IV - 2. Product Specification

Face recognition	Detection Type	Support living detection, Mask detection
	Face recognition distance	0.5 - 2.5m
	Face database capacity	Max support 30,000 faces
	Face Posture	(Daytime) vertical viewing 58°-60°, horizontal viewing 35°; (Living body) vertical viewing 48°-50°, horizontal viewing 36°
	Occlusion	Ordinary glasses and short sea retention have no effect on recognition.
	Expression	Slight facial expression doesn't affect face recognition function
	Response Speed	About 0.2 second
	Face exposure	Support
	Local Storage	Support storage of 25,000 records
	Recognition area	Full image recognition
	Upload Method	TCP, HTTP, MQTT
Network Functions	Network protocol	IPv4, TCP/IP, HTTP
	Security Mode	Authorized username and password
	Event linkage	Voice broadcast , Abnormal event upload to the platform
	System Upgrade	Support remote upgrade
Accessory	Supplementary light	IR light, LED white light
	Audio out	Built in Speaker support voice broadcast after successful recognition

IV - 3. Product Specification

Interface	Network Interface	RJ45 10M/100M Network Adaptation
	Alarm Output	1 Channel relay output(NC or NO)
	RS232	Support
	RS485	Support
	Reset key	Support
General	Housing	Metal body and braket, Plastic screen, IP66
	Operating Temperature	-4 °F ~ 140 °F
	Working humidity	10% - 90% (Non-condensing)
	Storage humidity	5% - 95% (Non-condensing)
	Power Supply	DC 12V / ≤12W
	Dimensions (mm)	219(W)*111(H)*21.5(T)
	Bracket size (mm)	Φ25*189
	Installation Method	Desktop Installation/Floor Support Installation

IV - 2. System superiority

Classification	Seoshin LTD ENP-FT207			A Brand			C Brand			M Brand		
Product appearance												
Temperature range error	±32.5℃			± 32.9 °F			±32.5 °F			35℃~38℃, ±0.3℃, 38℃~50℃, ±0.6℃; 그 외 : ±2℃		
Recognition distance	0.5 ~ 2.5M			1.0M			0.4~0.7M			자료 없음		
Recognition speed	200㎳			500ms			300ms			자료 없음		
Resolution	1920*1080 30fps(O/C) + 800*600 15fps(O/C)			1920*1080 30fps			1920*1080 30fps			1920*1080 30fps(O/C) + 352x288(T/C)		
Alarm settings	Excess temperature/Outsider/Mask ☞Alarm/Voice/Message			Excess temperature /Outsider/Mask ☞ Alarm/Voice/Message			Excess temperature /Outsider/Mask ☞ Alarm/Voice/Message			Excess temperature ☞ Alarm/Message		
Waterproof dustproof	IP66			No Data			No Data			IP67		
Video features	Face recognition	Heat sensing	Access control	Face recognition	Heat sensing	Access control	Face recognition	Heat sensing	Access control	Heat sensing	CCTV	
accessory	LED Light&Built-in speaker			LED Light&Built-in speaker			LED Light&Built-in speaker			Provide port for voice support		
Working with other systems	Access Control, CCTV, CRM, ERP, etc.			Access Control, CCTV, CRM, ERP, etc.			Access Control, CCTV, CRM, ERP, etc.			CCTV, etc.		
Certification	KC, CE, RoHS			No Data			No Data			No Data		

1E76-CE2D-E5AC-C148

방송통신기자재등의 적합등록 필증
Registration of Broadcasting and Communication Equipments

상호 또는 성명 Trade Name or Registrant	이후커뮤니케이션㈜
기자재명칭(제품명칭) Equipment Name	안면인식 IP CCTV패널
기본모델명 Basic Model Number	ENP-HXYZ
파생모델명 Series Model Number	ENP-FT205, ENP-F209, ENP-F205, ENP-F207, ENP-F204, ENP-FT207, ENP-FT204, ENP-FT209
등록번호 Registration No.	R-R-ehi-ENP-HXYZ
제조자/제조(조립)국가 Manufacturer/Country of Origin	이후커뮤니케이션㈜ / 한국
등록연월일 Date of Registration	2020-04-21
기타 Others	

위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다.
It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2020년(Year) 04월(Month) 21일(Day)

국립전파연구원장
Director General of National Radio Research Agency

※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다.
위반시 과태료 처분 및 등록이 취소될 수 있습니다.

EU Declaration of Conformity

ATTESTATION
According to
with European Directives

For the following

Product	:	Face recognition and thermal temperature measuring IP camera panel
Model Name	:	ENP-HXYZ
Variant Model Name	:	ENP-FT204, ENP-FT205, ENP-FT207, ENP-FT209, ENP-F204, ENP-F205, ENP-F207, ENP-F209
Applicant	:	Ehoo Communication Ltd.
Address	:	404, HighTech-Gwan, 56, Munemi-ro 448beon-gil, Bupyeong-gu, Incheon, Republic of Korea
Manufactured at	:	Ehoo Communication Ltd.
Address	:	404, HighTech-Gwan, 56, Munemi-ro 448beon-gil, Bupyeong-gu, Incheon, Republic of Korea

The submitted sample of the above equipment has been tested for CE marking according to following European Directive and standards:
- Electromagnetic Compatibility Directive 2014/30/EU

CE

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the specified European Directive. This verification does not imply assessment of the production of the product.
The CE marking may be affixed if all relevant and effective European Directives with CE are applicable.
The standards relevant for the evaluation of EMC requirements are as follows:

Test Standards	:	EN 55032:2015, Class A EN 55024:2010 /A1:2015 EN 61000-3-2:2014 EN 61000-3-3:2013

Ehoo Communication Ltd.

404, HighTech-Gwan, 56, Munemi-ro
448beon-gil, Bupyeong-gu, Incheon,
Republic of Korea

Date of issue: 2020-04-20

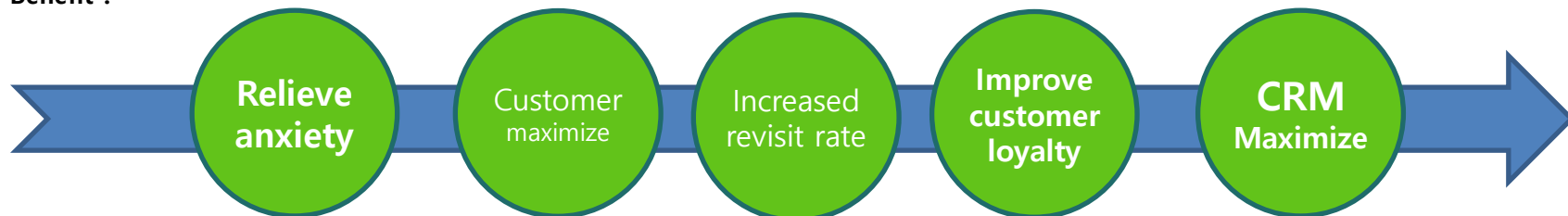(Name and signature of authorized person)

1. Introduction

- **With the introduction of a facial recognition temperature measurement camera (non-contact), it is possible to quickly manage the customer's access and effectively resolve customer anxiety.**
- **Rising customer (engagement): Recognizing products frequently ordered by VIP customers and showing them on the screen at the same time, forming new customer contacts and forming customer relationships and expecting synergistic effects**
- **VIP membership management: Quickly respond to customer service by showing the customer's order in advance when a member registers access**
- **Maximize CRM by applying deep learning-based customer customized service (customized new product proposal advertisement, etc.) through accumulated DB**

2. Introduction system operation scenario

3. Benefit :

Relieve anxiety → Customer maximize → Increased revisit rate → Improve customer loyalty → CRM Maximize

Thank you.

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