лнл ASP-2000

Non-contact temperature measurement & facial recognition for access control system



I. Why AHA product?



- **Certification of Korean Medical Device** (from Ministry of Food and Drug Safety in Korea)
- US FDA Registration
- AHA Smart Pass Alarm & Management System Software
- SOTI* Certified

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Height Adjustable Floor Stand (available from Q1 2021) \bullet

AHA Why AHA ASP-2000?

> * In order to activate SOTI program, it's required to purchase SOTI License per year. (SOTI License Fee is not included in product pricing)



Certification of Korean Medical Device



문서확인번호: ZYBC-YSTT-XI7M-CKDU

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제조(수입)업자 정보	제조(수입)업자 : (주)아하정보통신, 경기도 김포시 일 제조원 상동	· · · · · · · · · · · · · · · · · · ·
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	한국의료기기안전정보원장	

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AHA

Highly accurate performance of temperature measurement (passed very demanding and multiple tests and certified by Ministry of Food and Drug Safety)

: Temperature Accuracy $\pm 0.3^{\circ}$ C at 34° C ~ 42° C

- The first medical device certified that measures body temperature at a distance of 300 mm, compared to conventional one that measures at 3 mm from the forehead
- In addition, it's the first medical device that includes AI facial recognition function for access control system

Certification of Korean Medical Device

NERITAS	페이지 page: (1) / (종 total 7)
성적서 번호 Report No	TDBVNO-WAY-P20100078
발행일 Date of Issue	2020-11-23
신청자 정보 APPLICANT/LICENSE	HOLDER INFORMATIONS
신청자명 Applicant Name	僻아하정보통신 -
신청자 주소 Applicant Address:	경기도 김포시 양촌을 황금로 109번길 67
신청 일자 Date of Receipt:	2020-11-20
성적서의 용도 Use of Report:	제품성능평가
제품 정보 PRODUCT INFORMATIO	DNS
제조자명 Manufacturer:	㈜아하정보통신
제품명 Test Item Description	피부적의전체온계
모웰명 Model Name	2면 제품 상세 정보 참조
제조번호 Serial Number	
정격 Ratings	12 Vd.c., 3.34 A
시험 정보 TESTING INFORMATIO	NS
시험 장소 Testing Site	BV CPS ADT Korea
시험 기간 Tests Duration	2020-11-20
시험 방법 Test Method:	신청자 제시 시험 기준 및 방법에 따름
시험 환경 Test Environment	온토: (10 ~ 40) °C, 숩도: (30 ~ 75) % R.H., 기압: (70 ~ 106) kPa
시험 결과 Test Results:	적합 (청부 1 시험결과 참조)
 본 시험광파는 신청자에 의해 제공된 This test result is only for the product applicant. 본 성격서는 주식회사 비브이씨피에스 This report is forbidden to copy, escent 	제품/부품에 한하며, 신청자에게 제공함은 제품정도를 가준으로 작성됩니다. s / parts provided by the applicant, and is based on the product information provided by th 에이디티코리아의 승인 없이는 복래, 반해 및 인용이 공지됩니다. ption and cite without the approval of BV CPS ADT Korea
시험자 Tested by	기술책임자 Technical manager
성명 Name: 정성훈 <	And 성명 Name: 이기훈 너나
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- Measurement environment: Temperature (10~40°C) / Humidity (30~75) / Atmospheric pressure (70~106kPa)
- With excellent performance within ± 0.2°C at all 90 points of "temperature accuracy", it passed and met required specifications of ± 0.3°C accuracy
- Unlike the existing infrared forehead thermometer (3x3), all 1024 (32x32) pixels passed the "uniformity test" with a temperature deviation of ±0.2°C or less

AHA FDA Regi	stration		
FOR U.S. FOOD & DRUG ADMINISTRATION Home Food Drugs Medical Devices Radiation-Emitting Products Vaccines, Blood & Biologics Animal & Veterinary Cosmetics Tobacco Products	Image: Description U.S. FOOD & DRUG ADMINISTRATION Home Food Drugs Medical Devices Radiation-E	Follow FDA I Emitting Products Vaccines, Blood & Biologics	En Español SEARCH ry Cosmetics Tobacco F
Establishment Registration & Device Listing	 Establishment Registration & FDA Home Medical Devices Databases 	Device Listing	e
FDA Home Medical Devices Databases 1 result found for Establishment Registration	New Search	Back To Search Results	
or Business Trade Name : AHA INC CO., LTD. Establishment Registration Number Current	Proprietary Name: Classification Nam	AHA (ASP-2000, ASP-1000, ASP-19) SYSTEM, TELETHERMOGRAPHIC (ADJUNCTIVE	
Name Integration Hamber Registration Yr AHA INC CO., LTD. KOREA, REPUBLIC OF 3013510444 2020 • System, Telethermographic (Adjunctive Use) - AHA (ASP-2000, ASP-1000, ASP-19) Manufacturer	Product Code: Device Class: Regulation Numbe Medical Specialty: Registered Establi Registered Establi Number: Owner/Operator: Owner/Operator N Establishment Operator	USE) LHQ 1 r: 884.2980 Obstetrics/Gynecology ishment Name: AHA INC CO., LTD. ishment 3013510444 AHA INC CO., LTD. Iumber: 10077787 rerations: Manufacturer	
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Accessibility Contact FDA Careers FDA Basics FOIA No FEAR Act Nondiscrimination Website Policies / Privacy	Accessibility Contact FDA	Careers FDA Basics FOIA No FEAR Act Nondisc	crimination Website Polic





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Check and manage callback data on server (PC) coming from all devices at real-time speed

AHA SP	MS							
						AHA Smart Pass Alaı	rm & Manage	ment System
	HOME	REGISTRANT	VISITOR	REGIST	RATION	DEVICE		ADMIN
Device	Visitor Settin	ig .						
		,						Clear
	Location	Image	Name	Туре	Temperate	Mask	Visit	Time
Gate 6				Stranger	36.5 °C	Mask	2020-11-18	3 17:48:05
Gate 6		56		Stranger	36.5 °C	Mask	2020-11-18	3 17:48:22
Gate 6		1		Stranger	37 °C	Mask	2020-11-18	8 17:48:29
						170 41 01 1 - 0		hatouch com
Status				Соругі	gnt ©2020 AHAINC co	o., LTD. All Rights Reserve	M MWW.dl	natoden.com



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Receive ALARM notice as warning signal on server (PC) when a person with hightemperature comes in. And prevent that person from entering by manager or guard





Enable user to upload and register all the employee to the devices at once

AHA SPMS				
				AHA Smar
HOME	REGISTRANT	VISITOR	REGISTRATION	DEV
Single Registration	Multiple Registration			
Location Gate	9 6		~	SAV
File C:₩	'Users₩Lim₩Desktop₩0,×Is>	<	Browser	
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rt Pass Alarm &	Management System	
VICE	ADMIN	
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ights Reserved	www.ahatouch.com	







SOTI MobiControl is:

An end-to-end enterprise mobility management solution that can continuously manage mobile devices, applications, and contents from a single screen and apply security policies,

in particular, by monitoring and controlling the product remotely, it is a solution that can dramatically save the cost and actual dispatch time for customer services and also easy to respond

AHA **SOTI Certified**



Remote Support Real-time support available wherever your devices are located

- Remote control/view devices from an HTML5 browser
- View and interact with hardware buttons on the device
- Control and newly modify setting value on the devices

DEVICE	S (1 - 3 of 3) 50 ∨	Per Page \leftarrow 1	of 1 \rightarrow \mathcal{G}	
	DEVICE NAME	MODEL	OS VERSION	BATTERY PERCENT
0	AHA 00004	rk3288	7.1.2	No Battery
	AHA 00005	rk3288	7.1.2	No Battery
	AHA 00006	rk3288	7.1.2	No Battery









Device and Date Security Secure your company's confidential information

- Password protect and encrypt devices
- Deploy certificates and configure VPN to secure communication
- Add a Configuration Restrict features such USB mass storage, camera or screen capture





Θ	Restrictions
	Application Run Control
	Feature Control
4	Firewall
6	Lockdown
Ż	Phone Calls

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((*)) WiF



Application management Secure and distribute corporate apps

- Deployment of app store and in-house enterprise applications
- Choose which apps they want to install

Select the devices or device groups this p	profile will be assigned to.	Option
DEVICES	USERS	FILTERS
Device Groups	Devices (3)	← 1 of 1
AHA	DEVICE NAME	
> 🗌 My Company 🥚		A 00004
		A 00005
		A 00006

AHA SOTI Certified





AHA Height Adjustable Floor Stand

Approximately 50% transportation cost saving

Conventional vs New Design



Available from Q1 2021



AHA Height Adjustable Floor Stand

Available from Q1 2021

II. Product Details



Disadvantages of conventional method for temperature measurement





Low efficiency due to measuring manually





Difficulties of managing data/records & overhead cost

Smart Pass ASP-2000

As wearing a mask become more common due to COVID-19, it is a state-of-the-art AI based facial recognition and temperature measurement access control system that accurately recognizes people, thanks to deep learning technologies, even though they cover half of their faces with mask or wear glasses & mask at the same time. SenseTime (No. 1 in the world) AI based face recognition technology + Heimann (Germany) IR temperature measurement sensor + AHA(No. 1 in Korean IFPD market) manufacturing & software technologies = The Best

"temperature measurement & face recognition" "SMART-PASS ASP-2000"



AHA ASP-2000 summary

- To determine whether access allowed after temperature measurement (heat detection camera) and face recognition.
- Access will be denied by showing the message "Please wear a mask" if people wear mask only on chin or mouth or don't wear mask.
- Even if people wear mask, it can accurately recognize face 99%. And access will be denied if body temperature is over 37.5 degrees Celsius (if set to 37.5 degrees).



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ASP-2000 summary

- Where to use main entrance in densely populated area, installed to effectively prevent epidemics by conducting real-time temperature monitoring of employees, customers, visitors and other personnel.
- Features precise and accurate temperature measurement sensor, high quality infrared from Heimann using 2 megapixel wide-angle dynamic camera, and adopting world's No. 1 facial recognition AI technologies from SenseTime, it provides detection range of 0.3 meter while measuring temperature at the same time.
- Prevention of infection after presetting thresholds for high temperature (abnormal), product alarm goes off if measured temperature exceeds preset value. And people with high temperature are not allowed to enter as it warns of the risk of infection, effectively protects the health, and cure the epidemic situation.













AHA Description







8-Inch IPS FULL-VIEW LCD display

Powerful processor: Rockchip RK3288 Quad Core



Stable and reliable aluminum exterior, waterproof and dustproof design

30,000 face database support



Face comparison recognition rate exceeds 99.7%, liveness detection accuracy rate is 98.3%

> Supports accurate face recognition and comparison while wearing a mask

AHA Features



Industrial binocular wide dynamic camera and night infrared and LED double photo floodlight

Optimal distance for temperature measurement is 0.3 meter, measurement error ±0.3°C



Automatic alarm for abnormal body temperature and guidance when the mask is not worn

Temperature measurement data is exported in real time

Infrared thermal imaging temperature measurement



AHA



Millisecond-accurate face recognition



30,000 face database support

Recognition rate : 99.7%







Detection if mask is not worn



AHA



Entrance (gate)









AHA Dimension





AHA Dimension







AHA Dimension





Wigan input	Wigan out
D0-IN	D0-OUT
D1-IN	D1-OUT
12V	GND
GND	

AHA **ASP-2000** various interfaces

AHA Specifications

Camera
Resolution
Туре
Aperture
White balance
Photo flood light
Screen
Size
Resolution
Processor
CPU
Storage
Audio
USB
Serial communication
Relay
Wiegand
Wired network
Wireless network (Wi-Fi)

2 million pixels

Dual wide dynamic camera

F2.4

Auto

LED and IR dual photo flood light

8 inch IPS LCD screen

800 x 1,280

RK3288 Quad-core

EMMC 8G

 $2.5W / 4\Omega$ speaker

USB OTG x 1, USB HOST x 1

RS232 serial Port x 1

1 point contact (2A 30VDC, 0.28A 220VAC)

Wiegand 26/34 output x 1, Wiegand 26/34 input x 1

RJ45 Ethernet socket x 1

IEEE 802.11b/g/n, 2.400GHz ~ 2.497GHz

AHA Specifications

Function

Face detection

Face library

Whether to wear a mask

Stranger detection

Gate open output

Abnormal temperature warning

Data management

Alarm

Infrared thermal imaging module

Temperature measurement distance

Temperature measurement accuracy

Temperature measurement range

pixel

Temperature uniformity

support
Up to 30,000
support
support
support
Support (able to change setting)
Device management, access management, record inquiry, support for use in connection with existing access control systems
Low : lower than 34℃, High : higher than 42℃
0.3 meter
≤ ±0.3℃
34°C ∼ 42°C
1024 (32 x 32)
±0.3°C

AHA Specifications

General	
Power	DC12V (±10%)
Operating temperature (where ASP-2000 installed)	15°C~30°C
Storage temperature	-20°C~60°C
Power consumption	13.5W (Max)
Dimension	375 x 132 x 86 mm
Weight	1.4 Kg (Net), 2.4 Kg (Gross)
Packaging	
Main body * 1, Power adapter* 1, manual * 1	



abc news https://www.youtube.com/watch?v=7RWwZQXaiW4&feature=youtu.be

ARIRANG TV <u>https://www.youtube.com/watch?v=popkiygEXDM</u>



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