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2018 UNISEM

Enhancing Your Security Operation



Organization & IOT division

FINANCIAL OVERVIEW

IoT UniTracer UniAegis UniTraffic



UNISEM since1988 Employees

Sales

Major Clients

543 (in house R&D)

209 Millions (USD) [2017]

SAMSUNG, SK HYNIX, LGD, BOE, CENTURY, PSC, TIANMA, SMIC, TOSHIBA etc.

Global Offices



ORGANIZATION



oT division provides systems and services in the areas of smart security, smart logistics and smart traffic to leverage advanced IoT technology to provide safety and comfort to more people.

Financial Overviews



Year Sales

Year Sales per Item



Smart Logistics with UniTracer

Smart and Secure Tracking **Solution** provides any business or government organization with the information on the location, security and status in real time of their goods, assets and other high value resources. The tracking device represents an additional layer of security to ensure goods/assets reach their destination in the same condition as they began their journey.

UniTracer L100



Device Features



High-quality device

- ✓ Lightweight and portable
- \checkmark Robust and Durable
- ✓ Waterproof

Electronic Seal

✓ Sensor wire lock

24/7 Secure Access

 \checkmark Only authorized users can access device via NFC cards

GPS tracking (National and International)

- ✓ GPS Antenna with 10M Accuracy
- ✓ Galileo Satellite for high-precision positioning

Offline Tracking – WCDMA/GSM Network

 Absence of network coverage - all data is stored and maintained in the device

Long life rechargeable battery

✓ Operates 33 days on a single charge (USB port)

Warranty

✓ One year



Monitoring Platform Features

Geo-Fencing Enabled

- ✓ Pre-definition of desired route
- ✓ Including up to 10 landmarks per route

Alert Customizations

- ✓ Alerts via Email or SMS
- ✓ Multiple alert recipients
- ✓ Customization of alert frequency

Location Frequency

Setup of location interval sampling

Real-time worldwide location tracking

- ✓ 24/7 platform access
- ✓ Access via laptop, PC, tablet and mobile devices

User Friendly Interface

- ✓ Supports Multi-Language
- ✓ Supports Multi-Timezone
- ✓ 3 Tier Privilege Levels

Export of record logs

 Including date and time of event, longitude, latitude, battery level, etc.

Customized Report

✓ Transport, event history and login analysis





- Authentication and access control: only authorized users can access device via NFC cards
- Geo-fencing: user presets route to ensure no deviation from pre-planned route
- ✓ Alert notification: receive instant alerts by SMS/E-mail when cargo has been opened or tampered
- Additional guarantee: ensures safety and integrity of perishable goods, hazardous materials, sensitive cargo and high-value assets



- ✓ Shipment visibility: user controls and monitors cargo's location in real-time (24/7)
- Monitoring international logistics: ensure tracking of transit goods across borders
- Reliable and efficient scheduling: improves dispatching and estimation of arrival time based on cargo visibility



- Monthly reports: tracking logs can be downloaded and accessed online at anytime
- Cost effective: device can be reused multiple times an d lowers insurance premium

Benefits

Application Areas

Expensive cargo & Police and military asset

 Efficient tracking and securing military cargo transportation su ch as vehicles, equipment, uniforms, weapons, munitions, food and medical supplies

Government, State or private bonded warehouses

- Geo-fencing capability, so if goods or container are moved th e device will trigger an alert for a check of its status and security
- Device can be used as additional layer of security for specific valuable goods/assets

Seized drugs and counterfeit products

 Seized drugs are stored in evidence rooms for which the tracki ng system can be used as an additional layer of security

References

- Ghana Board Transfer & Inland Transport
- Cote D'ivoire
- > Uganda Inland Transport



Smart Security with UniAegis

Smart Detection Solution is an electronic device for signal detection and tracking of MAC Addresses of wireless devices such as mobile phones, tablets, laptops etc.

This solution allows the continuous and real-time analytics of the, crowd patterns, mobility patterns in a large space at an effective cost, and the analyzed information creates various and valuable contents and security forecasting.





UniAegis S100

Antenna : Dual Exterior Dipole Antenna WLAN : IEEE 802.11b/g/n(2.4GHz) Operating Temperature : 0~50°C Device Size : 112mm x 25mm x 87mm, 150g Certificates : CE, KC, RoHS

Antenna : Built-in dual antenna + WCDMA 3G antenna * external antenna can be added WLAN : IEEE 802.11ac(5Ghz), a/b/g/n(2.4GHz) Operating Temperature : 0~70°C Device Size : 116mm x 92mm x 30mm , 200g Certificates : CE, KC, RoHS





Antenna : 3dBi Dipole Built-in dual antenna WLAN : IEEE 802.11ac(5Ghz), a/b/g/n(2.4GHz) Device Size : 124(W)x 206(D)x 76(H)mm Certificates : CE, KC (TBD) Camera : 2M Fixel, H/W based Face Detection, onVIF support, Support Fixed/Motorized Lens

Device Features

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RF

- ✓ High receiving strength
- ✓ Low RSSI fluctuation (< 2dBm)
- ✓ Customizing Antenna option
- ✓ Set RSSI value for setting detection area (10m, 30m)

Sensing

- ✓ Wi-Fi 2.4GHz & 5GHz dual or single sensing
- ✓ Perform as AP (router) and Wi-Fi sensing
- ✓ 3G/WCDMA and Ethernet cable support
- ✓ PoE support
- ✓ onboard GPS support

Mac De-randomization

- ✓ Plug & Play by using ACS server
- ✓ Remote reset and RF setting
- ✓ Monitoring remotely sensor operation status

Unique ID System for De-identification

Solution creates unique ID for each MAC address detected, therefore preventing double counting

Multi-range per device

 Setting of detection range per sensor enables analysis of visitor mobility within a given radius

Monitoring Platform Features

Detection

- ✓ Setting of detection range per sensor
- ✓ Setting access level per sensor

Analysis

 Register the list of all authorized smart devices and therefore allows detection of unauthorized devices

Monitoring

- Monitoring and tracking of Mac addresses anytime and anywhere
- ✓ Monitoring of crowd movement, patterns

Alerts

✓ Alert notification for unregistered devices

Reports

✓ Generation of reports and customized dashboards





- Detection and analysis of crowd flow movement and patterns
- Detection of abnormal activities or unregistered user near a restricted area
- Counting of people/visitors at a particular location
- Calculation of actual period of stay of people, dwelling time
- ✓ Detection of new/returning visitors
- Analysis and monitoring of mobility pattern in specific areas (tourism infrastructures, theaters, secured areas, malls, stations, stadiums, national events)
- Monitoring of suspicious movements to and within a building
- Allows decision making regarding the security level needed in specific areas during major rallies, demonstrations, concentration of people
- ✓ Improve citizen safety
- Forecast crowd mobility and behavioral patterns by comparing floor by floor footfall activity in major malls

Benefits





Forecasting & security measures

Application Areas



- Shopping Centers
- Tourist sites and Hotels
- Stadiums
- Banks and Financial Institutions
- Bus stations
- Manufacturing and Industrial Area
- Other restricted areas

References

- Metro Bus | TURKEY Passenger mobility patterns in Metro Bus
- Korea Airport Corporation | SOUTH KOREA Passenger mobility patterns in Airport
- Super Rapid Train | SOUTH KOREA Smart Station for mobility pattern
- National Maritime College of Ireland | IRELAND Maritime Security and Safety
- Rock Project | ITALY, MACEDONIA, PORTUGAL and UK-Monitoring people movement pattern and safety improvement
- Ajuntament de Barcelona | SPAIN Crowd Control and Tourist safety



UniTraffic provides intelligent

traffic control solutions through object analysis and short range radar equipment business using LPR (Licensed Plate Recognition) technology and solutions. UniTraffic can manage traffic volume information and intermittent traffic on the road. The traffic rate, speed, and density DB are constructed by each vehicle road using the real-time radar vehicle detection data. Traffic information is monitored in real time at the center through a software program equipped with traffic analysis functions.



UniTraffic Solution Feature



VAS

VideoAnalyticsSystem

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- Real time Multi object tracking technology
- Quickly analyze objects with high recognition accuracy rates
- 90% analysis accuracy of real-time multi object recognition technology
- Classification of 10 types of objects (Car, motorcycle, person, helmet, cap, head, etc.)
- New classifications can be added by adding learning functions
- Detection of traffic violation cases



No wear helmet



Over persons



Line Violation



Speed Violation



Signal Violation

License
 Plate
 Recognition
 System

LPR

- Integrate with object recognitions technology based on AI and LPR
- Optimize Vietnam Traffic environment



<Sample LPR process>

TMS

Transportation Monitoring System

- Interface between Violation of VAS and LPR
- NVR connection for streaming view
- Traffic status monitoring in real time (Year / Month / Day/ Time)
- Monitoring for violation statistics
- Print Violation bill
- User management assign local admin
- Traffic Facility and equipment management (CCTV, NVR. Pole etc.)
- Export Excel report

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Came	ra Information										Ionitoring device (3) Camera	Device Operator
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- ✓ All existed camera can apply to UniTraffic solution
- ✓ Do not need to purchase equipment for UniTraffic solution
- \checkmark No need construction for applying to solution



- Enable to operate for local traffic environment
- Deep Learning AI technology
- Customizing violation detection technology



- ✓ Sole helmet detection technology
- ✓ Object accuracy is higher than 90%.



- Do not need to use camera API information
- Easy to connect camera through rtsp.
- Various camera manufactures can be applied

Benefits

Application Areas

- High market motorbike share countries such as Vietnam, Indonesia, Thailand, India
- Highway traffic management system
- Bicycle road bicycle speed and traffic analytics
- Visitor analytics analytics visitor in public facility and tourist attraction
- Safety area Detection of vehicle in safety area and speed detection

References

• Vietnam Vung -Tau PoC

UniTracer



TDt&C	42, Yurtm-ro, 154 beon-gil, Cheolin-gu, Yongin-si, Gyeonggi-do, 17042 Korsá, Republic of
-	TEST REPORT
	EN 60950-1
Information 1 Part	technology equipment – Safety – 1: General requirements
Report Number:	DRSCEL1711-0168
Date of Issue	2017-11-17
Total number of pages:	63 pages
Applicant's name	UNISEM Co., Ltd.
Address	15-7, Jangjinam-gli, Dongtan-myeon, Hwaseong-si, Gyeonggi-do, Korea (18510)
Test specification:	
Standard ::	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013
Teet procedure	DEMC-MP-625
Non-standard test method:	NA
Test Report Form No	IEC60950_1F (DT&C : TRF-SA-209(02)160412)
Test Report Form(s) Originator :	SGS Fimito Ltd (DT&C modified on 2014-11-21)
Master TRF	Daled 2014-02
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If this Test Report Form is used by nor Scheme procedure shall be removed	HECEE members, the IECEE/IEC logo and the reference to the CB
This report is not valid as a CB Test and appended to a CB Test Certificat	Report unless signed by an approved CB Testing Laboratory to issued by an NCB in accordance with IECEE 02.
Test Item description	eGeal
Trade Mark	UniTracer L-100
Manufacturer	Same as applicant
Model/Type reference	UniTracer L-100(G)
Ratinge	5V
If this test report is required to or	onfirmation of authenticity, please contact to recort/addinc.net

UniAegis

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porting evidence for the adequi	acy of the technical design solution, it is only valid in conjunction		tong wwedn zound / mar Engineer	
ntified above and of the submit	ted documents only. Aboda Amot		TEL: +82-31-8060-0259/ E-MAIL: ykjeong/8 unisem.co.kr	

Registration	or proaceasing and communication Equipments
상호 또는 성명 Teals Nenc or Registerer	유니생 (주)
기자재 평청 Equipment Name	UniAegis
기본모델핑 Basic Model Namber	S-100
과-생고 변명 Sense Model Number	
등록번호 Registration No.	MSIP-REM-Usm-S100
제조자/제조(조립)국가 Manufactures Country of Origin	유니생 (平)/ 한국, 중국
동쪽연월일 Date of Registration	2017-05-04
기타 Othera	
위 기자제는 「원파믹」 It is verified that foregoing e Waves Act. Director	역보요 전 시간에 여러 등 목적 인수 수 및 인니 이, appinnent har been registred under the Chause A. Andel 등 8-2 of Reads 2017년 (Year, 052 (Menth) 아익() 국업권과 연구 원장 변화되는 General of National Radio Research Agency

Certifications