CLEARWIN KR

Handrail UV Sterilizer

This is not for **CHOICE**, This is **ESSENTIAL**

UV-C lamp, which is installed inside the Clearwin device, **sterilizes 98%** of the harmful viruses, bacteria and germs





Using escalators or moving walks cause variety of health related issues such as "pathogenic diseases, minor to deadly viruses and other hygienic problems".

Grabbing onto an escalator handrail can prevent major accidents while on an escalator.

BUT when holding the handrail of escalators which were held by hundreds of people, we are exposed to harmful substances and can even cause infections to the users.

"Clearwin can prevent infections from a simple daily activities."



Our product aims to contribute into improving hygienic environment by sterilizing bacteria, viruses and germs.

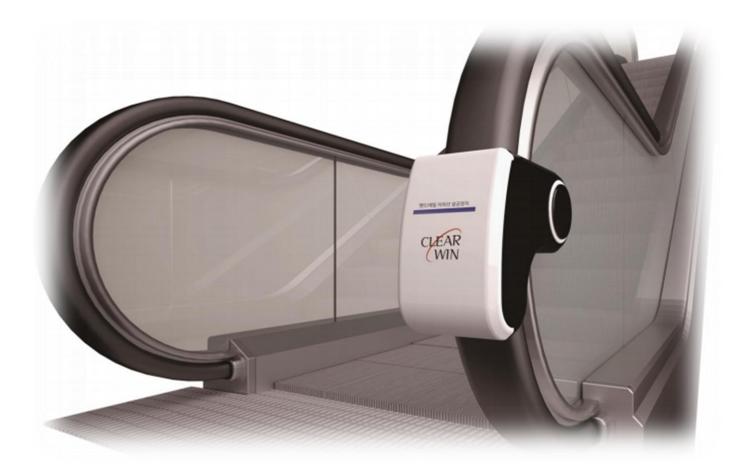
By simply attaching the device to an escalator or moving walks handrail, the device generates power from the circular motion of the handrails and sterilizes the handrails.

SURVEY RESULT

Whether a person holds the handrail when on an escalator: HOLD(54%), DO NOT HOLD(43%), OTHERS(3%) Main reasons why people don't hold handrails: NOT SANITIZED(42%), UNCOMFORTABLE(53%), OTHERS(5%) Accident rates when NOT HOLDING HANDRAILS on an escalator: 78%

UV Handrail Sterilization Equipment

CLEAR WIN





Black & White Colored Simple Design Cover

Simple cover design and device composed of lamp, housing, and power supply.

PREVENT UNSANITARY and FATAL VIRUS, HIGH SAFETY with EASY INSTALLATION and GLOBAL AWARENESS

ТҮРЕ	COST	CHARACTERISTIC	
CLEARWIN	Less than a cup of coffee per day	Safe, Easy InstallationEconomical cost - Affordable	
Electricity Connected Type	Between \$5,000 and U\$16,000/unit	 Tough Regulation for the electrical equipment Electric hazards Mainly commercial purpose Not economical – Expensive 	
Wiping with Disinfectant	U\$100/unit 1 month	Temporary disinfecting effects Customer unawareness Unhygienic method	

ТҮРЕ	Sterilization of mycetoma	Physical property change	Permeability	Sterilization time	Usage
UV Sterilization	Effective against all	Little change	No permeability	Short	Easy
HEAT sterilization	Effective against all	Occasional	Effective even inside the object	Considerably	Occasionally
OZON Sterilization	Effective against allmycetomas	Occasional	Effective even inside the object	Long	Difficult
Chemical Sterilization	Effective against all specific	Occasional	Effective even inside the object	Considerably	Easy



01 Easy Installation

- Able to install onto any types of escalators
- · Installable during operational condition
- · Easy and quick installation (10min) with ZIG installation tool
- · Light weight with smart design

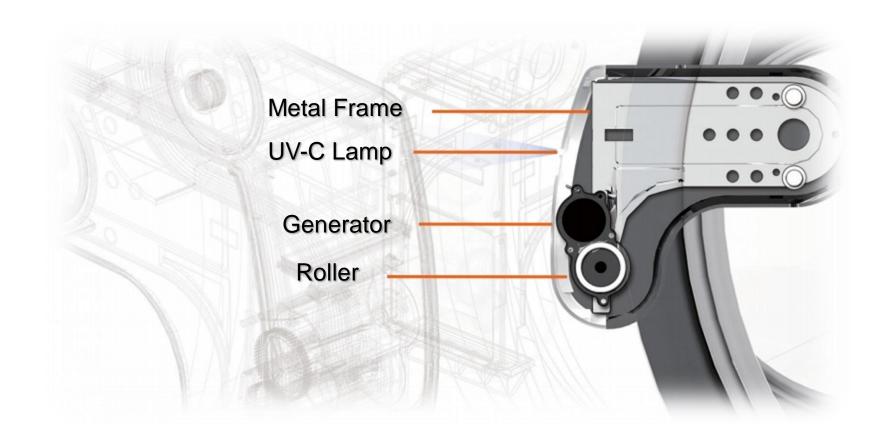


- Actuated by escalator driving force
- Does not require external electrical power (self generation)
- · Custom logo design printing available for advertising effect



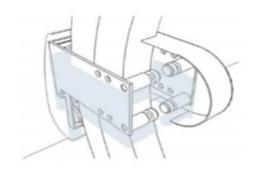
LED UV Lamp developed by LG Innotek-98% sterilization UV-C wavelength,
 most suitable for handrail disinfection

MAIN COMPOSITION

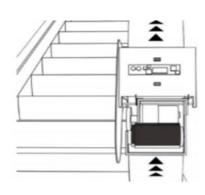


- · Metal Frame: Easy installation with light weight
 - · UV-C LED Lamp: Virus sterilization
- Generator: Convert rotational power into UV-C light

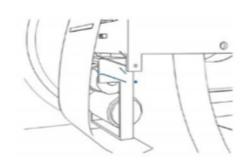
PRINCIPAL OF OPERATION STERILIZER



A. The main body is fixed to the balustrade of the moving walks



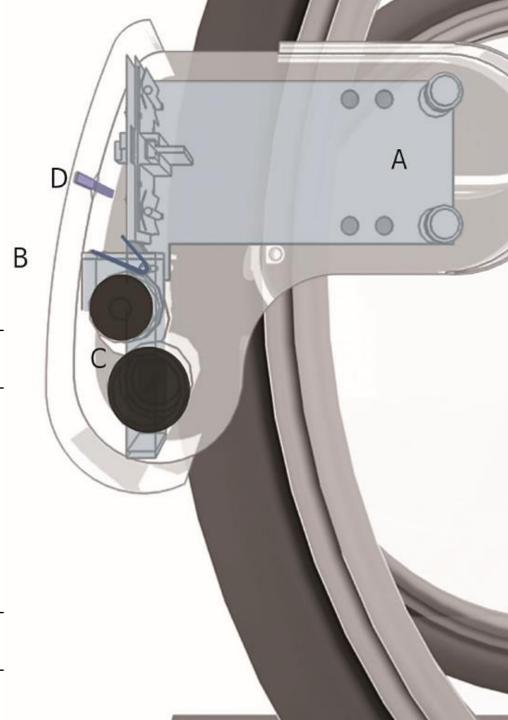
C. The rear roller and the handrail's rotational force generates power



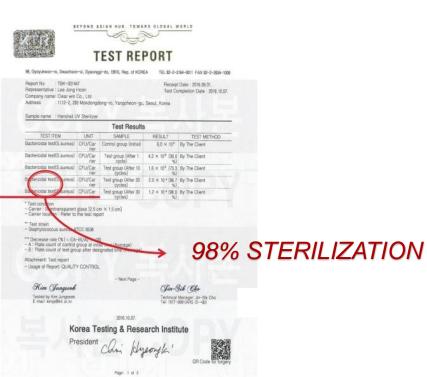
B. The torsion spring makes roller contact at a constant pressure on the handrail



D. The generated power activities the UV germicidal lamp and operation indicator







KTR KONEA TESTAG A RESEARCH INSTITUTE

가족행복, 안전에서 시작됩니다. 정부 3.0 국민안전처 수신 수신자 참조 (경유) 제목 특수구조승강기 검사특례 인정 및 대체검사기준 통보(에스컬레이터 핸드레일 살균기) 가, 「승강기 검사 및 관리에 관한 운용요령」제10조 나. CW 2017-03-001호(2017.3.15.) - "특수구조승강기 검사특례 인정신청" 2. 위와 관련하여 「승강기 검사 및 관리에 관한 운용요령」 제10조제3항에 따른 승강기전문위원회(2017.3.28.)의 검토결과, 에스컬레이터 핸드레일 살균기에 대한 대체검사기준(안)이 적합한 것으로 인정됩니다. 3. 이에, 「승강기 검사 및 관리에 관한 운용요령」 제10조제2항에 따라 특수 구조승강기 검사특례를 인정하고 대체검사기준을 불임으로 통보하오니, 에스컬레이터 핸드레일 살균기의 설치 및 안전관리에 만전을 기하시기 바랍니다. 불임 승강기 대체검사기준(예스컬레이터 핸드레일 살균기) 1부. 끝. 수신자 (주)클리어윈 대표이사, 한국승강기안전공단이사하 시행 승강기안전과-1248 (2017. 4, 11.) 우 30129 세종특별자치시 정부2청사로 10, SM타워 402호 (나성돔) / http://www.mpss.go.kr 전화번호 044-205-4295 잭스번호 044-205-8910 / ilmoonkim@korea.kr 정보의 개방과 공유로 일자리는 높고 생활은 면리해 집니다

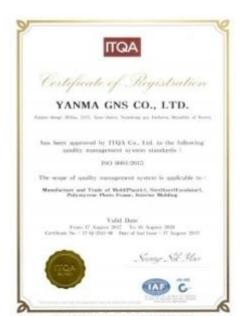
Ministry of Public Safety & Security Clear Win – grant special standard (2017.04.11)







CE CERTIFICATE



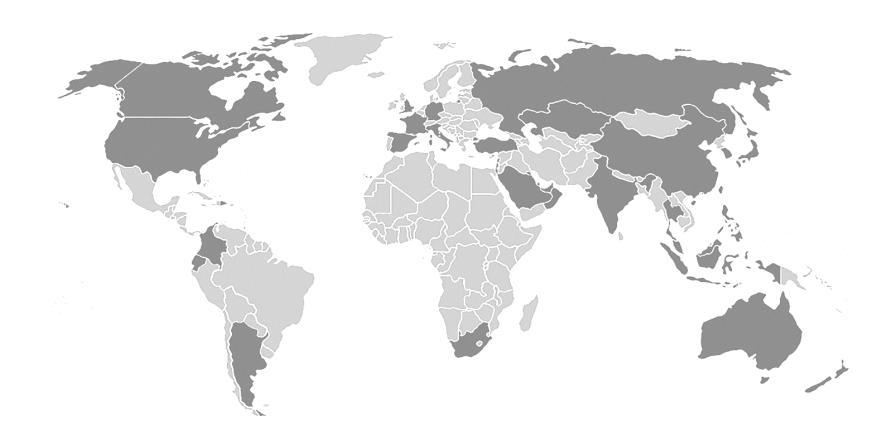
PATENT

INTERNATIONAL PATENT



ISO9001 ISO14001

CLEARWIN Worldwide



Sole Agency: USA, Canada, Dominican Republic, UK, Spain, Italy, German, France, Republic of South Africa, Australia, New Zealand, Saudi Arabia, Qatar, Bahrain, UAE, Lebanon, , Kazakhstan, Kuwait, Oman, Ecuador, Columbia, Argentina, Russi a, Turkey, Israel, Indonesia, Thailand, Singapore, Philippines, Malaysia, Japan, Hongkong, Taiwan, China ...

Domestic / international Installation Status

Government office

Shopping mall

Office building

Station / Terminal

Hospital

Airport / International







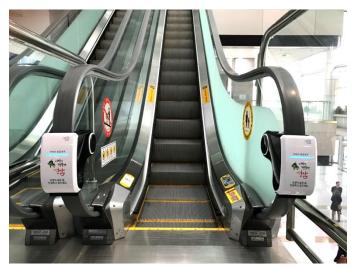


Seoul City Hall - Seoul

Government office

Sungnam City Hall – Sungnam, Gyeonggido













Government office

Daegu Infrastructure Corporation - Daegu

KOREA INDUSTRIAL SAFETY ASSOCIATION - Seoul







Domestic / international Installation Status

Government office

Shopping mall

Office building

Station / Terminal

Hospital

Airport / International







E-MART – Gimhae, Busan

Shopping mall / Department

SINSAEGAE Outlet - Paju , Gyeonggido









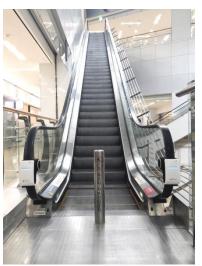


HYUNDAI Department - Bucheon, Gyeonggido

Shopping mall / Department

METAPOLICE shopping mall – Dongtan, Gyeonggido









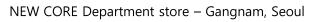






Shopping mall / Department

YOUNG POONG Book Store - Seoul









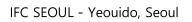






IKEA – Go Yang, Gyeonggido

Shopping mall / Department











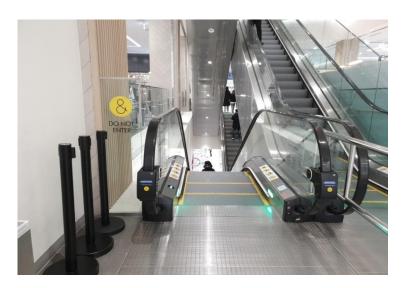














SHINSEGAE Department

Kiheung AK MALL – Kiheung , Gyeonggido



Domestic / international Installation Status

Government office

Shopping mall

Office building

Station / Terminal

Hospital

Airport / International





HYUNDAI 41 TOWER - Seoul

Office building

SAMSUNG R&D CENTER - Seoul











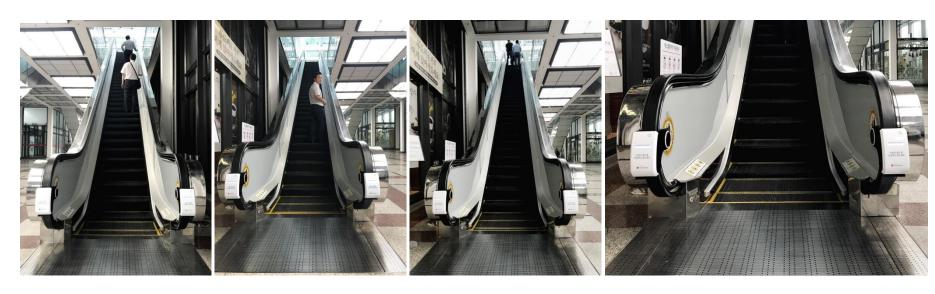




GS TOWER - SEOUL

Office building

LG TWIN TOWER - Seoul









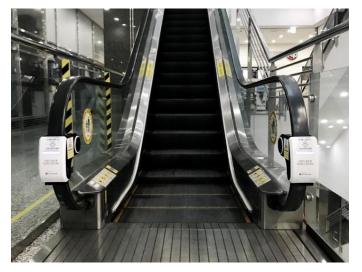
Office building

LG BUILDING – KwangHwaMoon, Seoul









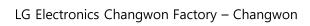






Office building

Korean industry safety corp. - Seoul

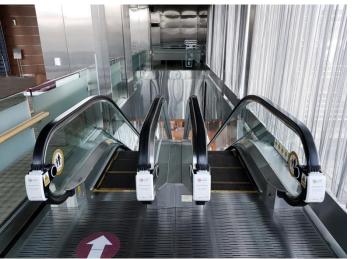
















Office building

GS Tower Art center - Seoul

LG Science Hall Seoul - Seoul

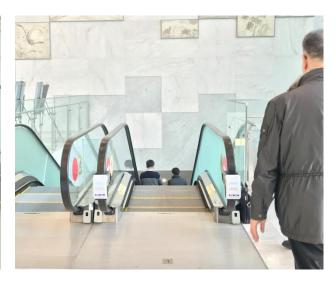












Office building

OTIS LS BUILDING - Seoul

















Office building

KT estate KOREA TELECOM HEADQUARTER – Seoul

KT KWANGHWAMOON B/D - Seoul





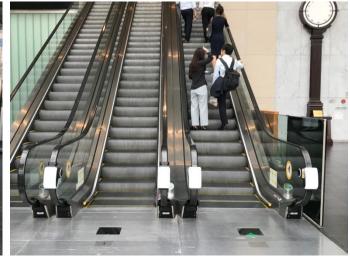












Office building

MIRAE ASSET CENTER 1 - Seoul

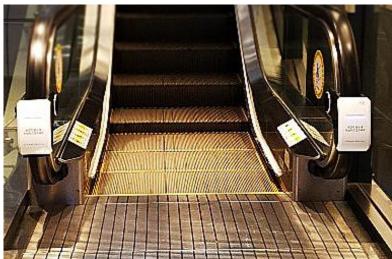
CJ Building - Seoul





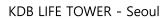






GRAN SEOUL – Jongro, Seoul

Office building









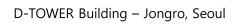






Office building

SK Securities Building – Yeouido, Seoul







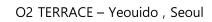




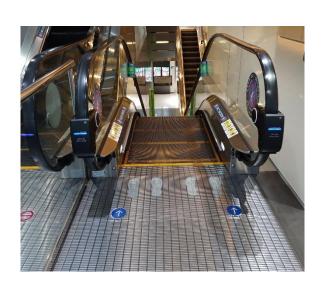


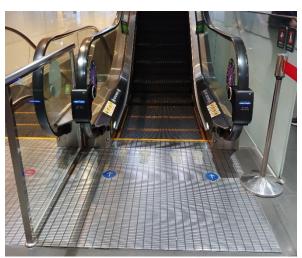


Office building



Seocho Building – Gangnam, Seoul

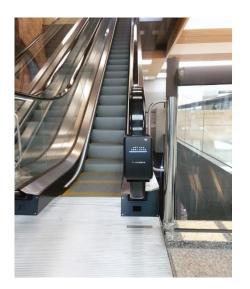














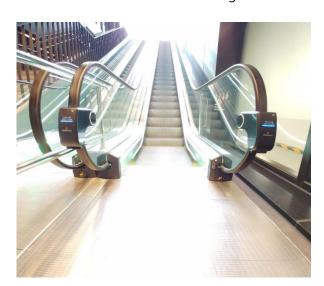
KB Financial Tower - Seoul











Central Police Building - Seoul







Woori Bank - Seoul

Office building







Twin tower – Euljiro, Seoul

Domestic / international Installation Status

Government office

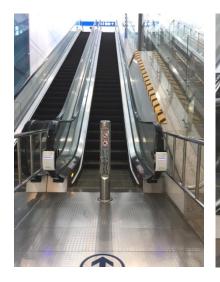
Shopping mall

Office building

Station / Terminal

Hospital

Airport / International



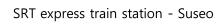






Train station

ktx train station in Pohang - Pohang













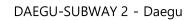






Subway station

DAEGU-SUBWAY - Daegu











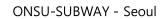






Subway station

DONGDAE-GU TRAIN STATION - Daegu













Subway station



SADANG SUBWAY - Seoul

YANGCHEON-GU OFFICE SUBWAY - Seoul







Subway station

CHEON WANG SUBWAY - Seoul











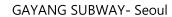


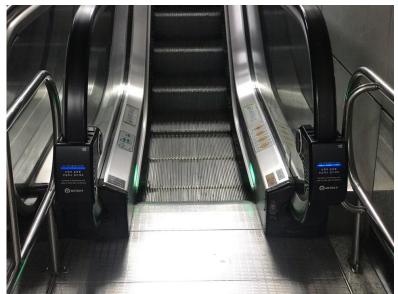




Subway station

CHUNGMURO SUBWAY - Seoul















SEOULEXPRESS BUS TERMINAL - Seoul

B us T erminal





Domestic / international Installation Status

Government office

Shopping mall

Office building

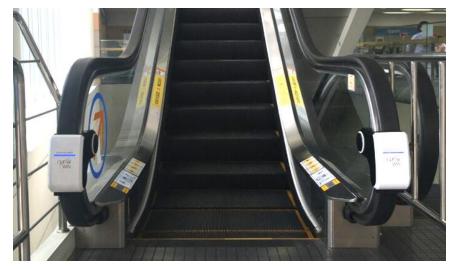
Station / Terminal

Hospital

Airport / International







PUSAN NATIONAL UNIVERSITY HOSPITAL - Busan

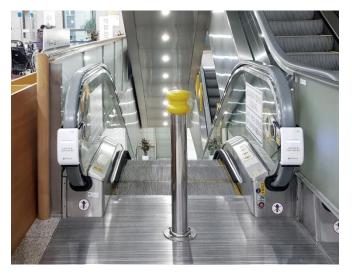
Hospital

YONSEI SEVRANCE HOSPITAL - Seoul















Hospital

INHA-UNIVERSITY HOSPITAL - Incheon

EWHA WOMANS UNIVERSITY MOKDONG HOSPITAL - Seoul















Hospital

HALLYM UNIV. MEDICAL CENTER - Seoul

Keimyung Universtiy Dongsan Hospital - Daegu













Gachon University Gil Medical Center - Incheon

Hospital





Domestic / international Installation Status

Government office

Shopping mall

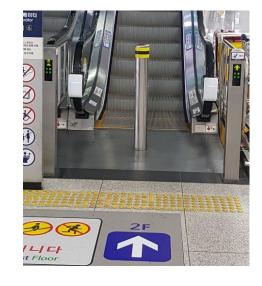
Office building

Station / Terminal

Hospital

Airport / International

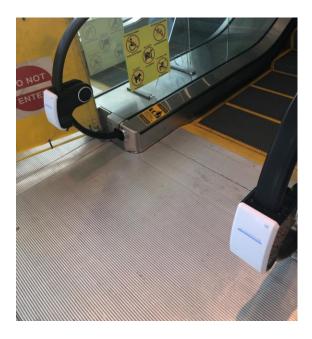




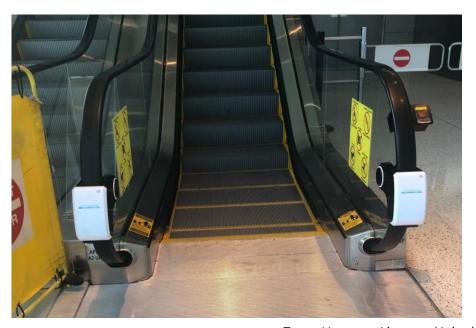
Airport Korea

Gimhae International Airport - Busan





United States



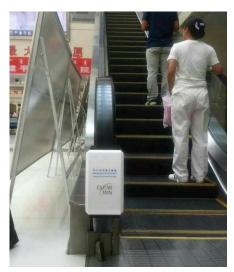
Texas Houston Airport - United States











CHINA CITY-HOSPITAL

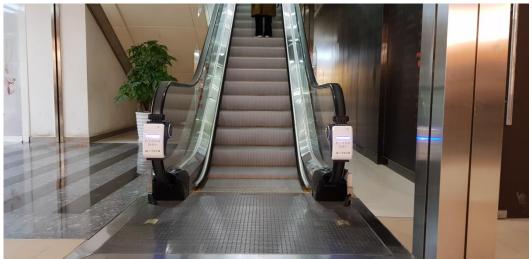
China

BEIJING POSCO B/D





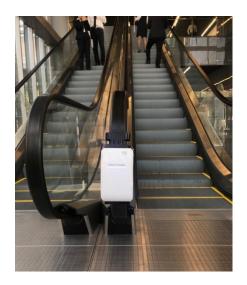


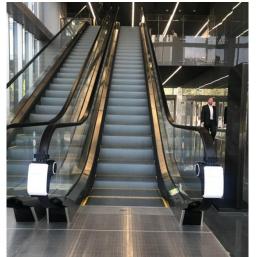


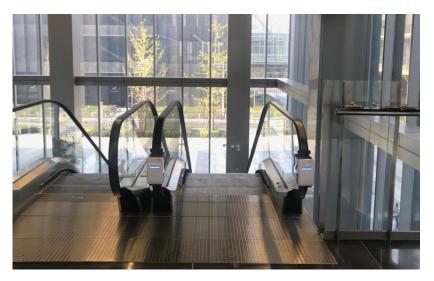
BEIJING TWIN TOWER

China

前滩世贸中心



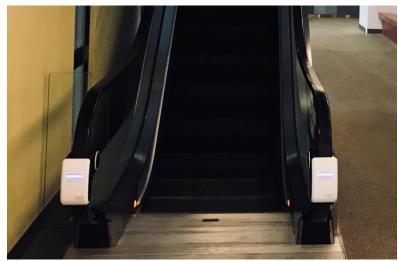








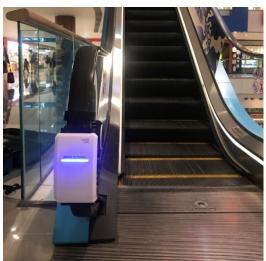




HONG KONG POLYTEC UNIVERSITY

Hongkong



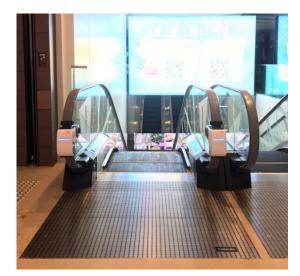






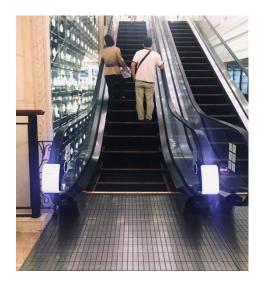






YOHO MALL

Hongkong



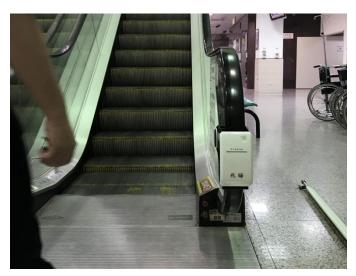




Grand Emperor Hotel







TAINAN CITY Sin-Lau Medical Foundation

Taiwan

TAINAN munucipal an-nam hospital – china medical university















TAOYUAN International Airport - TAIPEI

Taiwan

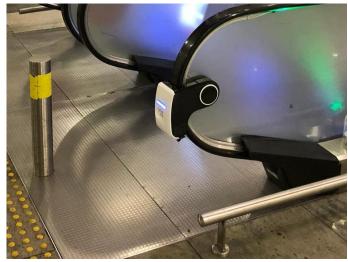




Lebanon Beirut International Airport - Lebanon







TURKEY ISG Sabiha Gokcen Airport

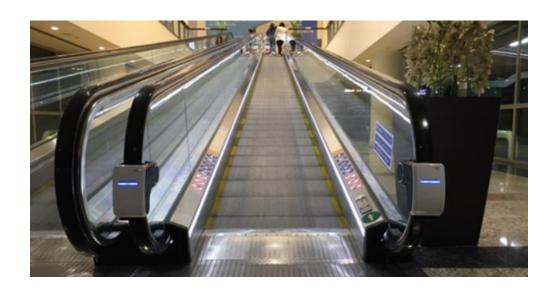
Turkey







Malaysia Kuala Lumpur International Airport





UAE – Sahara Mall

UAE

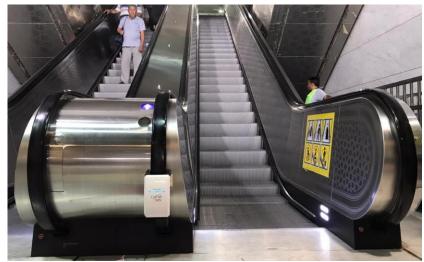
DUBAI Bin Sougat Cetre SHOPPING MALL











Saudi Arabia – Grand Mosque

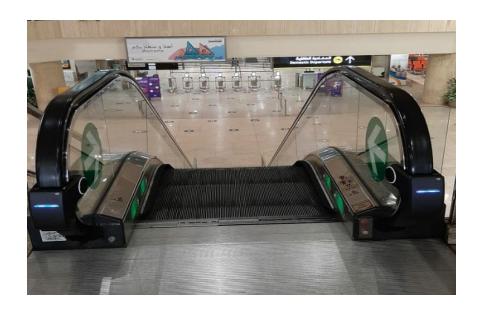
Saudi Arabia

Saudi Arabia – Jeddah King Abdulaziz International Airport











Saudi Arabia

Saudi Arabia – Dammam International Airport



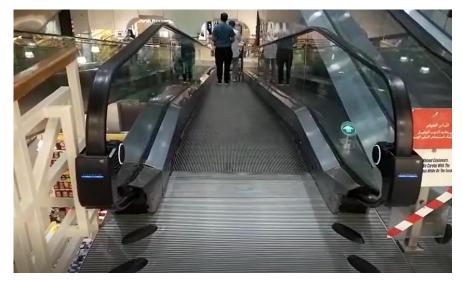




Saudi Arabia – Riyadh International Airport

Saudi Arabia





Kuwait – LULU Hypermarket at Qurain

Kuwait



Dublin Airport - Ireland



Mexico Airport – Mexico



GRU Airport - Brazil



Sydney Airport - Australia



Changi Airport - Singapore



Paris Metro- France





Would you still hold any handrail?

CLEARWIN KR

Handrail UV Sterilizer

OFFICE: #306, Namdong Techno Tower,189, Hogupo-ro, Namdong-gu, Incheon, Korea