



THE PREVENTIVE SOLUTION - CLEARWIN [®]

ClearwinUAE

ClearwinBahrain

ClearwinOman



THE PREVENTIVE SOLUTION **CLEARWIN®**

ESCALATOR HANDRAIL STERILIZER





THE PREVENTIVE SOLUTION
CLEARWIN®

It's a proven fact, Escalator and Walkway Handrails are a "HOTBED" of bacteria.

Continuous sterilizing through our Non Powered Clearwin device kills 98% of all bacteria on these Handrails.

Airports, Shopping Malls, Metro's, Hospitals where large volumes of people are passing through, contribute to this concern.

In today's environment and growing concerns with Coronavirus, we believe, **Clearwin is not for choice, but essential !!!**

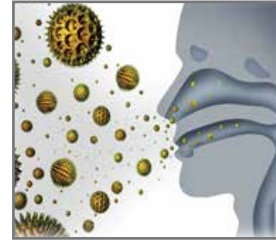


Hygiene problems
If we hold the handrail...



Safety problems
If we don't hold the handrail...

HYGIENE PROBLEMS



It's a clear fact that anywhere a mass gathering of people are, Airports, Shopping Malls, Metro, Hospitals etc the likelihood of being exposed to bacteria and virus's is high. Today and globally, we are facing the very contagious Coronavirus.



According to the experimental results published by the American Society for Microbiology and Epidemiology, most of the viruses are transmitted by hand!!!!

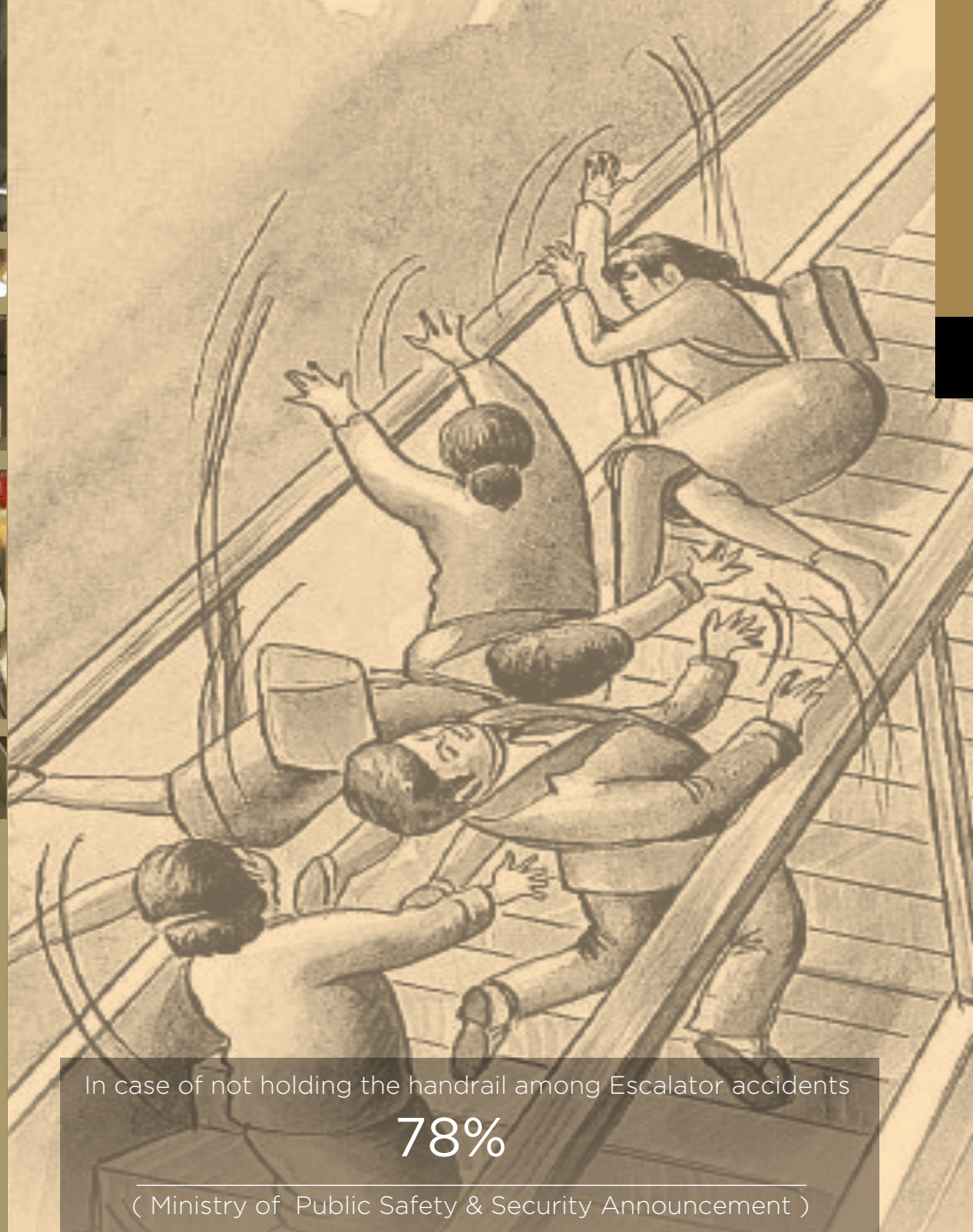
(Source : Health Day News)



According to the survey Earth ECCO, British sanitary company, a proven fact that causes people to come in contact with bacteria has been detected in escalator hand rails !!!!.

(Source : England Metro)

SAFETY PROBLEM

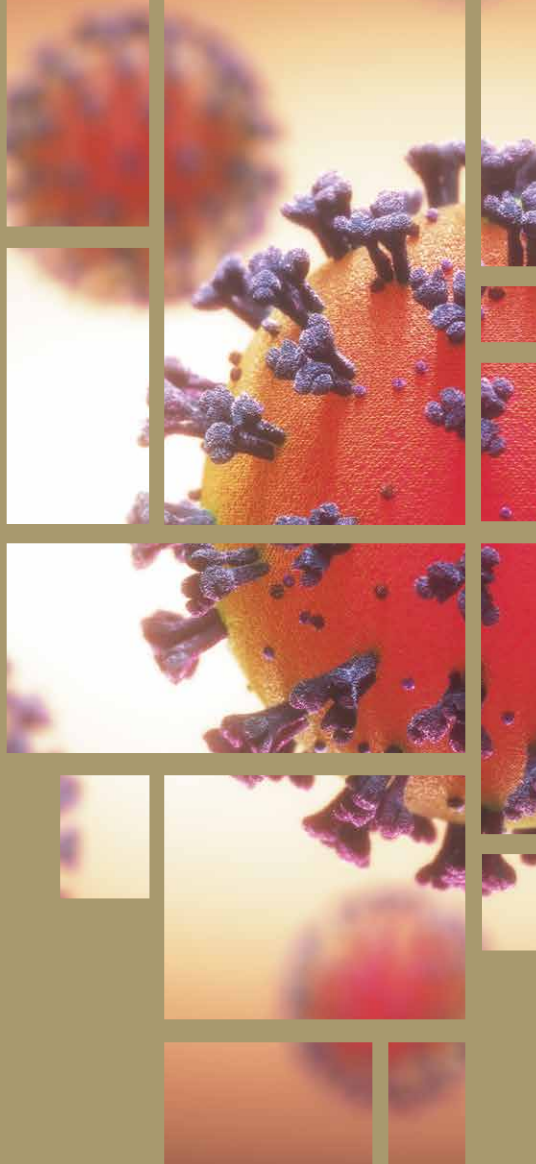


In case of not holding the handrail among Escalator accidents

78%

(Ministry of Public Safety & Security Announcement)

UV DISINFECTION



THE PREVENTIVE SOLUTION- CLEARWIN®

ESCALATOR HANDRAIL STERILIZER

The only certified device worldwide against COVID-19 at 99.9%

Clearwin is “The Prevention Solution” against COVID-19. We are all responsible to take appropriate action against COVID and through Clearwin, we strive to protecting the public on every escalator.

COVID-19 TEST REPORT
Efficacy test for antiseptic device against COVID19

JEONBUK NATIONAL UNIVERSITY
INDUSTRY-ACADEMIC JOINT RESEARCH

Report No.: 2010000641 Test period : 2020.06.01 - 2020.07.08
Host Representative : Jaeyoung Cho, Kwangsu Yoo
Company : CLEARWIN KOREA Co., Ltd
Address : #703, 88 Jeonpa-ro, Dongan-gu, AnYang city, Gyeonggi province, Republic of Korea

*** Test goal**
- Evaluation of the efficacy of the virus sterilization device commissioned by CLEARWIN KOREA Co.,Ltd. in an in-vitro Environment.

Sample name : Escalator Handrail Sanitizer

TEST RESULTS(1/3)		
UV reaction times	log ₁₀ TCID ₅₀ /ml ²	UV reaction times/virus removal efficiency (%)
Unreacted	7.50	
1 time	6.50	10
10 times	3.33	>99.99
20 times	<0.5	>99.99
30 times	<0.5	>99.99

*** Test condition**
- As a result of the virus cell culture test, the dilution rate in which virus inactivation was confirmed becomes an effective concentration. In this case, the effective inactivation ability of the disclosed virus becomes the average value of the best results repeated 3 times.
- Through this experiment, it was confirmed that the COVID-19 has been sanitized by more than 99.99% when the CLEARWIN KOREA UV-C sterilization device exposes the virus to the UV-C light for 0.7 second more than 10 times. (7 seconds in total)
- This particular test is the first test out of three total tests. All three tests had the same results where after 10 revolutions, it had 99.99% sanitation rate.

Jul.07.2020

JEONBUK NATIONAL UNIVERSITY
INDUSTRY-ACADEMIC JOINT RESEARCH INSTITUTE

Kwangsu Yoo (CU)
Head of subjective research

Attested by Notary Public

UV DISINFECTION



Comparison of sterilization methods

	UV sterilization	Heat sterilization	Ozone sterilization	Chemical sterilization	Radio sterilization
Sterilization of mycetoma	Effective against all	Effective against all	Effective against all mycetomas	Effective against all specific	Effective against all
Physical property change (Handrail)	Little change	Occasional	Occasional	Occasional	Little change
Permeability	No permeability (except air and water)	Effective even inside the object	Effective on the object surface	Effective even inside the object	Effective even inside the object
Sterilization time	Short	Considerably	Long	Considerably	Short
Usage	Easy	Occasionally	Difficult	Easy	Difficult



THE KEY IS HANDRAIL HYGIENE

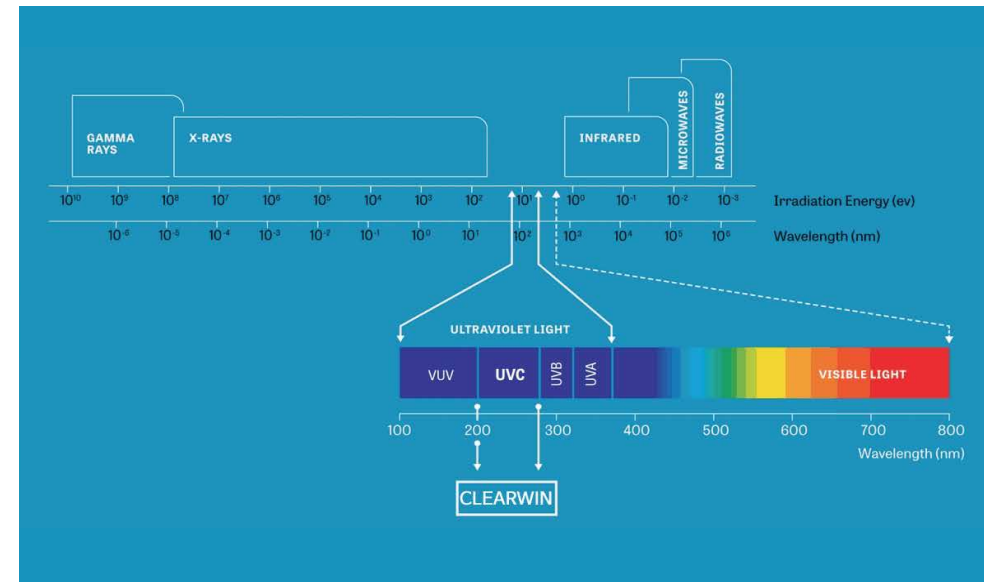
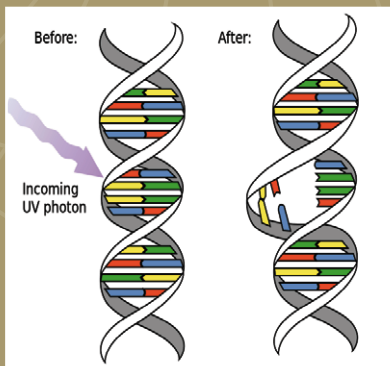
There is no product that effectively solves the hygiene problems 100% of the time on handrails, however, Clearwin provide the optimum solution with a non powered device killing 98% of all bacteria.

Disinfection Methods of Handrail

TYPE	COST	CHARACTERISTIC
Electricity Connected Type	Between \$5000 and U\$16,000 / unit	<ul style="list-style-type: none"> Tough regulation for the electrical equipment / electrical hazards Mainly commercial purpose Not economical - expensive
Wiping with Disinfectant	U\$100/ unit 1 month	<ul style="list-style-type: none"> Temporary disinfecting effect Customer unawareness Unhygienic method
CLEARWIN	Less than a cup of coffee per day \$4.0	<ul style="list-style-type: none"> Safe, easy installation Economical cost - affordable Customer awareness - lowering risk

UV-C light is a short-wavelength, ultraviolet light that breaks apart germ DNA, leaving it unable to function or reproduce. In other words, UV-C light is germicidal (UV-A and UV-B light are not) UV-C is used as the most optimum sterilization method today in hospitals and facilities for water and air sterilization. It is measured in Nano Meters (1 to 400nm) and our Clearwin UV-C Lamp provides a powerful strength of 278NM destroying bacteria and Virus DNA preventing reproduction and killing all bacteria and virus's.

UV DISINFECTION



The Far Ultra Violet (200~300nm), is powerful for sterilization whatever it is.

UV-C destroys the RNA, DNA cell itself as above diagram. It kills all virus.

SAVING MONEY
HERE



CONTINUOUS STERILIZATION -> HYGIENE



INSTALLATION -> AWARENESS -> SAFETY



AFFORDABLE PRICE

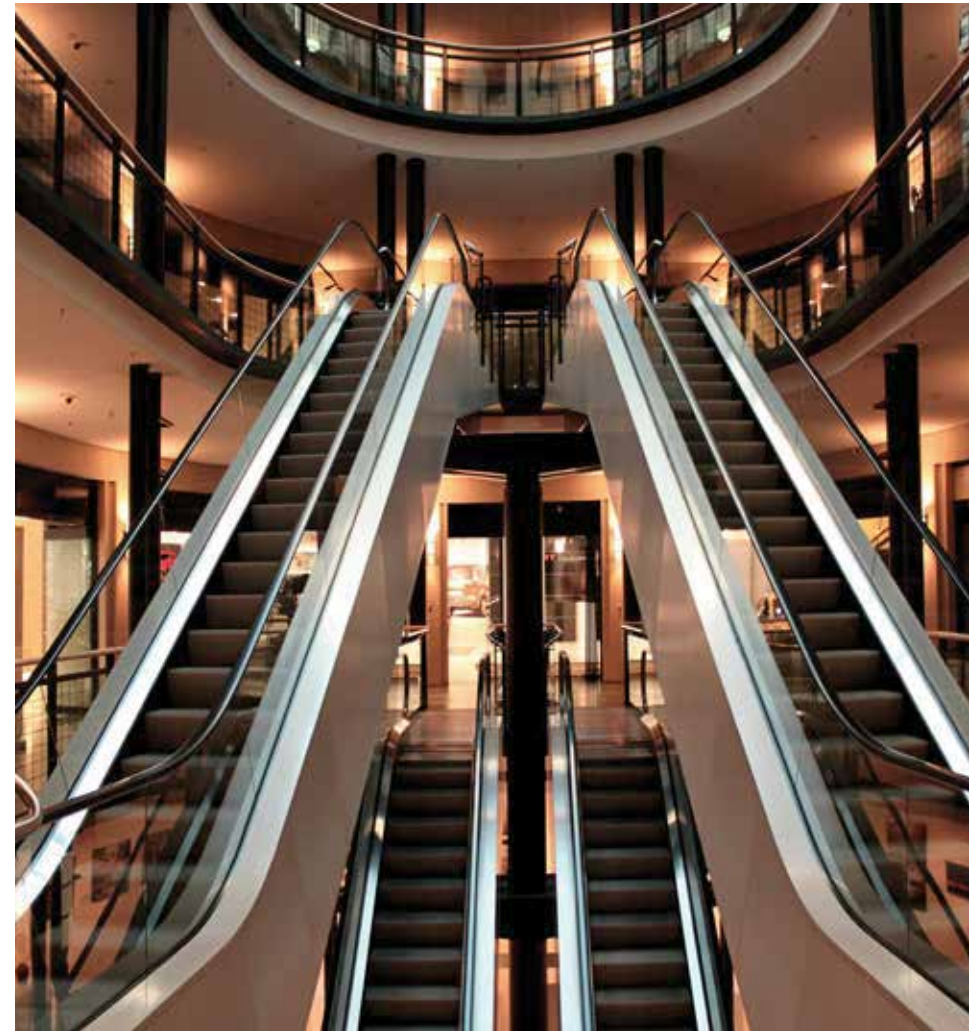


ONLY SINGLE PRODUCT TO SOLVE THESE PROBLEMS
THE PREVENTIVE SOLUTION



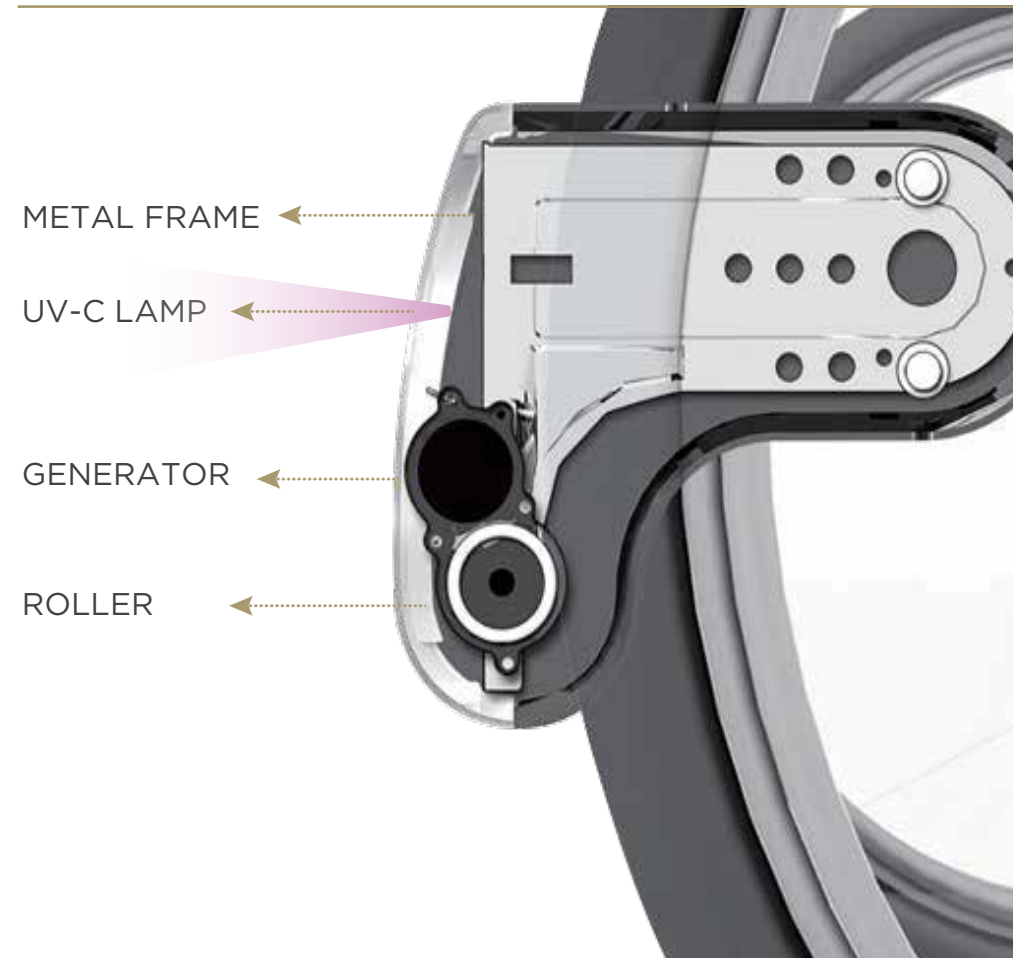
CLEAR
WIN

EASY INSTALLATION



- Any type of escalator is available
- Installable even in working condition
- Easy & quick installation (30 min.) - with our Zig system
- Light weight, Smart design

MAIN COMPOSITION



STRUCTURAL DESIGN

- Metal frame : Easy installation with light weight
- UV-C LED lamp : Virus sterilization
- Generator : Convert rotational power into electricity



EASY INSTALLATION
Maintain existing facilities as they are



FAR UV-C STERILIZATION
98% UV-C Sterilization – most suitable method for handrail



CONTINUOUS STERILIZATION
Strong & continuous sterilization along with escalator drive



LOGO AVAILABLE
Promotional logo printing is available on front cover.



COMPACT & SAFE DESIGN
No interruption to the passenger



SELF GENERATION
Safe self generation from the motor inside

SELF GENERATION



- Actuated by escalator driving force
- No need external electrical power
- Self generation

FEATURE 1 - ADVERTISING EFFECT

DISPLAY OPTIONS




- Advertising effect
 - Corporate / Product
 - Save the Installation cost
- Logo printing available
- Safety Campaign

“You can hold the handrail because it is continuously sterilizing.”

CERTIFICATION





(재)한국환경수도연구원
서울특별시 경동로구 양평로55길 29
TEL: 02-2637-1234 FAX: 02-2631-8767

Korea Environment & Water Works Institute
29, Yangnyeong-ro 28sa-gil, Yeongdeungpo-gu,
Seoul, 150-106, Korea.
Tel. +82-2-2637-1234 Fax:+82-2-2631-8767

시험성적서

1. Client Name : SOOKYOUNGAID CO., LTD. Certificate No. : IL-150056
 Address : 804, Hyundai41tower, 293, Mokdongdong-ro, Yangcheon-gu, Seoul-si, Republic of Korea Page(1) / (1)Page end.
 Date of Receipt : Jan. 15, 2015 Date of Enforcement : Jan. 20, 2015


2. Use of Report : Quality management
 3. Test Sample : Escalator handrail UV sterilizer device
 4. Date of Test : Jan. 15, 2015 ~ Jan. 20, 2015
 5. Test method used : Pour Plate Method
 6. Testing Environment : Temperature : (35 ± 0.5) °C, Relative Humidity : (45 ± 5) % R.H.

Test Results

Items	Unit	Result					Remark
		The synthesis water	1 turn	10 turn	20 turn	30 turn	
<i>Staphylococcus aureus</i>	CFU/mL	1 000	180	260	98	110	-

Notice 1. The results shown in this test report refer only to the offered sample by client.
 2. The test report cannot be used for the purpose of litigation or advertising, and shouldn't be republished without document approval.

Received by: Hyunho Seo Tested by: Inkyu Beck Technical Manager: Minhyoung Song



Korea Environment & Water Works Institute

FPC05-3B(13) Korea Environment & Water Works Institute A4(210×297)

98% STERILIZATION

CERTIFICATION



COVID-19 TEST REPORT

Efficacy test for antiseptic device against COVID19



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Jul.07.2020



JEONBUK NATIONAL UNIVERSITY
INDUSTRY-ACADEMIC JOINT RESEARCH INSTITUTE

Kwangsu Yoo (인)
Head of subjective research

Attested by Notary Public

CERTIFICATION



BEYOND ASIAN HUB. TOWARD GLOBAL WORLD

TEST REPORT

98, Gyooyukwon-ro, Gwacheon-si, Gyeonggi-do, 13810, Rep. of KOREA TEL 82-2-2164-0011 FAX 82-2-2634-1008

Report No : TBK-001447 Receipt Date : 2016.09.01.
 Representative : Lee Jong Hoon Test Completion Date : 2016.10.07.
 Company name : Clear win Co., Ltd
 Address : 1112-2, 293 Mokdongdong-ro, Yangcheon-gu, Seoul, Korea

Sample name : Handrail UV Sterilizer

Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Bactericidal test(S.aureus)	CFU/Carrier	Control group (Initial)	6.0×10^8	By The Client
Bactericidal test(S.aureus)	CFU/Carrier	Test group (After 1 cycle)	4.2×10^8 (30.0%)	By The Client
Bactericidal test(S.aureus)	CFU/Carrier	Test group (After 10 cycles)	1.6×10^8 (73.3%)	By The Client
Bactericidal test(S.aureus)	CFU/Carrier	Test group (After 20 cycles)	2.0×10^4 (96.7%)	By The Client
Bactericidal test(S.aureus)	CFU/Carrier	Test group (After 30 cycles)	1.2×10^4 (98.0%)	By The Client

* Test condition
 - Carrier : Semitransparent glass [2.5 cm × 1.5 cm]
 - Carrier location : Refer to the test report

** Test strain
 - Staphylococcus aureus ATCC 6538

*** Decrease rate (%) = $\frac{(A-B)}{A} \times 100$
 - A : Plate count of control group at initial time (Average)
 - B : Plate count of test group after designated time (Average)

Attachment: Test report
 - Usage of Report: QUALITY CONTROL

- Next Page -

Kim Jungseok

Tested by Kim Jungseok
 E-mail: kimjs@ktr.or.kr

Jin-Sik Cho

Technical Manager: Jin-Sik Cho
 Tel: 1577-0091(ARS 0-4)

2016.10.07.

Korea Testing & Research Institute

President *Choi Hyeongh*



QR Code for forgery

Page: 1 of 2

CERTIFICATION



CE CERTIFICATE



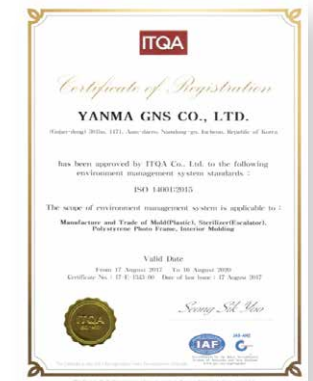
PATENT



INTERNATIONAL PATENT



ISO9001



ISO14001

CASE 1 : TRAIN / METRO STATION, BUS TERMINAL



GLOBAL INSTALLATION

GLOBAL INSTALLATION



CASE 2 : INTERNATIONAL AIRPORT (TAIWAN)



CASE 3 : INTERNATIONAL AIRPORT (LEBANON)



GLOBAL INSTALLATION

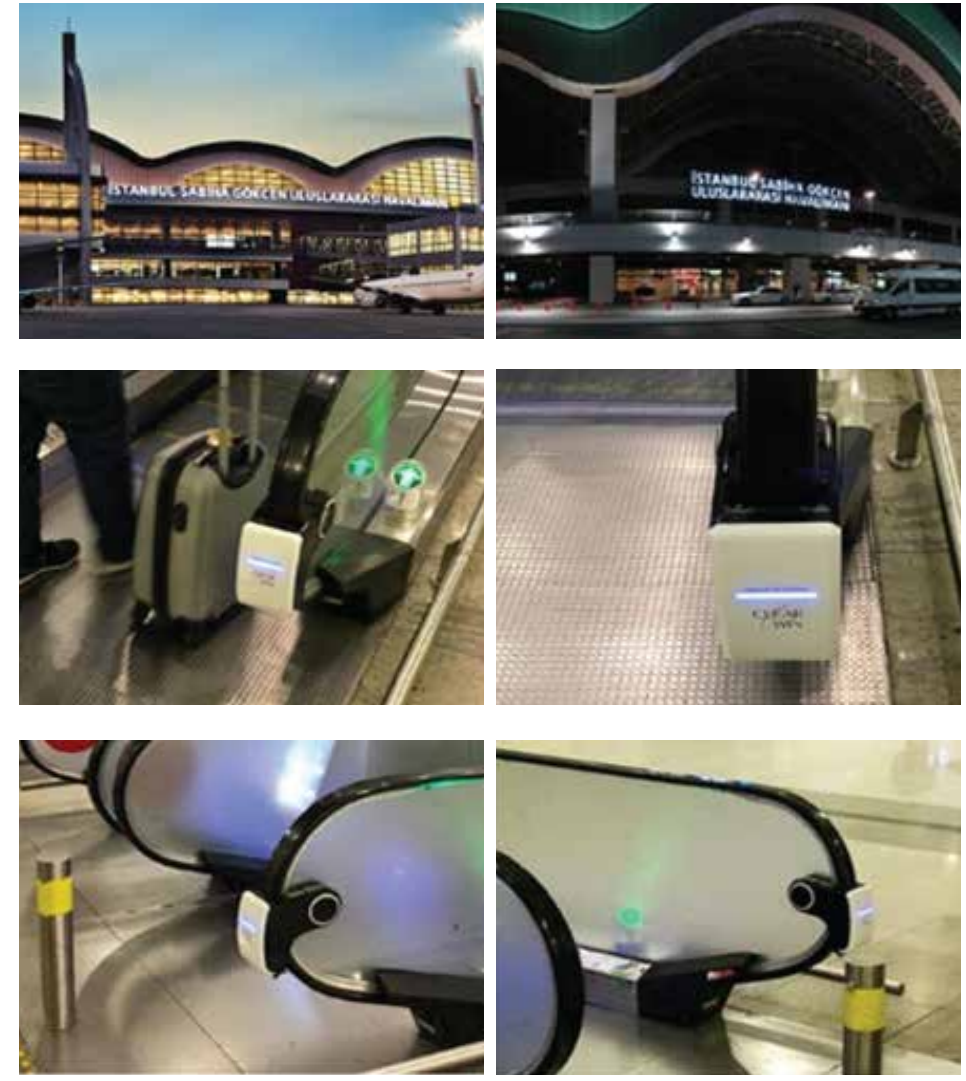


Istanbul, Turkey
New International Airport
Architectural Masterplan

GLOBAL INSTALLATION



CASE 4 : INTERNATIONAL AIRPORT (TURKEY)



GLOBAL INSTALLATION



CASE 5 : INTERNATIONAL AIRPORT (MALAYSIA)



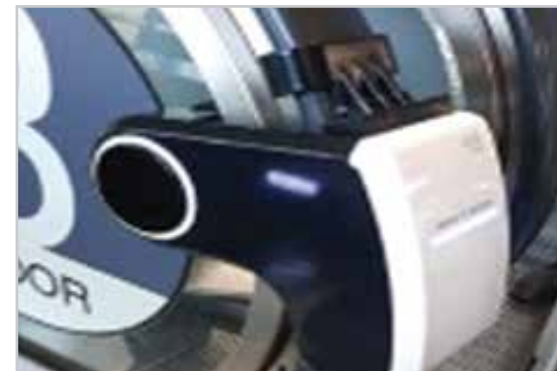
KLIA Ekspres airport rail in Kuala Lumpur, Malaysia (2019.09)



GLOBAL INSTALLATION



CASE 6: INTERNATIONAL AIRPORT (THAILAND)



A wise Investment at an Affordable Price



For a cost at less than a cup of coffee per day

Contact us

ClearwinUAE

Sales@ClearwinUAE.com

ClearwinBahrain

Sales@ClearwinBahrain.com

ClearwinOman

Sales@ClearwinOman.com

Because We Care

