



**UV Handrail Sterilization Equipment** 

CLEAR WIN

At the moment, using escalator and moving walks handrails causes health problems such as various pathogenic diseases and viruses because it is used by thousands of people.

This product aims to contribute to improve hygienic environment by sterilizing bacteria and viruses, just by simply attaching it to an escalator or moving walks handrail

handrail.





### Tempered glass type

Such as Hospitals, Department Stores, Shopping Malls, Subway Stations etc.

It is installable <u>anywhere</u> as long as the escalators and moving walks are there.

Stainless steel type

External environment, such as a subway station.



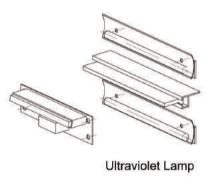


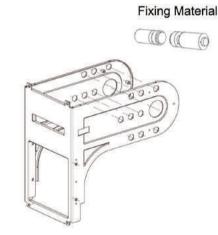


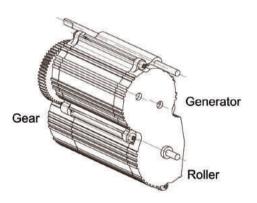
Black & White Color Simple Design Cover

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









'L' shape can protect the internal devices.

COVER

Sterilizes various types of bacteria that inhabits the handrail.

LTRAVIOLET LAMP

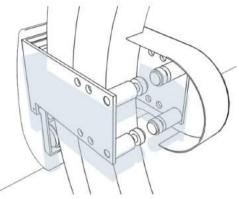
It is engaged with a fixed frame of the handrail through the pressure.

HOUSING

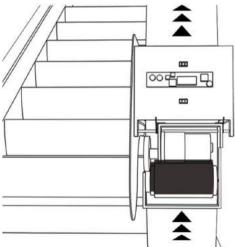
Converts the rotational motion of the handrail into electricity.

POWER

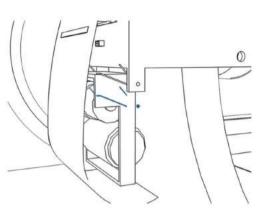




The main body is fixed to the balustrade of the moving walks.



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



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



The generated power activates the UV germicidal lamp and operation indicator.

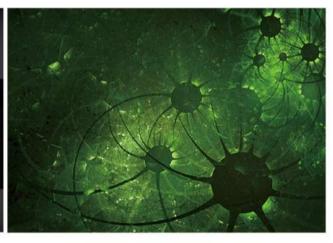












UV disinfection methods other than chemicals or heating system doesn't deform.

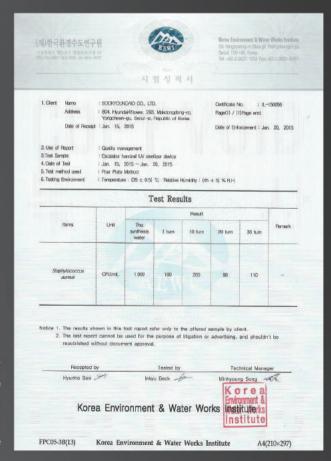
This CLEARWIN device can be easily installed even when the escalator is in motion.

Sterilization effectiveness to all bacteria.



## Certified for sterilizing the Staphylococcus Aureus and E. Coli

by using the sterilizing power of a dual lamp.



Kerns Eminerated & Water Works Institute (재)한국환경수도연구원 시험성적서 : SOCKYOUNGAID CO., LTD. Page(1) / (1)Pages : 004 Nazyładtiowe 593 Meldonycho-ro. Address Date of Receipt | Feb. 2, 2015 Date of Enforcement : Fab. B. 2015 Coeffy management 7 I ke of Borost : Escalator handrali UV steritzer device lamp S Tost Sample Feb. 2, 2015 - Feb. 9, 2015 4 fine of Test - Pour Plate Method 5. Test method used Temperature : (35  $\pm$  0.5) °C. Pelative Humidity : (45  $\pm$  5) % R.H. 6. Testing Environment Test Results Beaut Unit forms. The synthesis 30 eec 2 min. CFU/mL 1500 Not Detected Not Detected ALVERAN Not Detected 1.300 Enchariation coll DRU/mi. 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 apublished without document approval. Technical Manager Recepted by Minhyoung Song Inkyu Back Hyumo Seo Korea Korea Environment & Water Works Institute Korea Environment & Water Works Institute FPC05-3B(13)

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# Comparison between UV sterilization and other 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 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



Would you still hold any handrail?