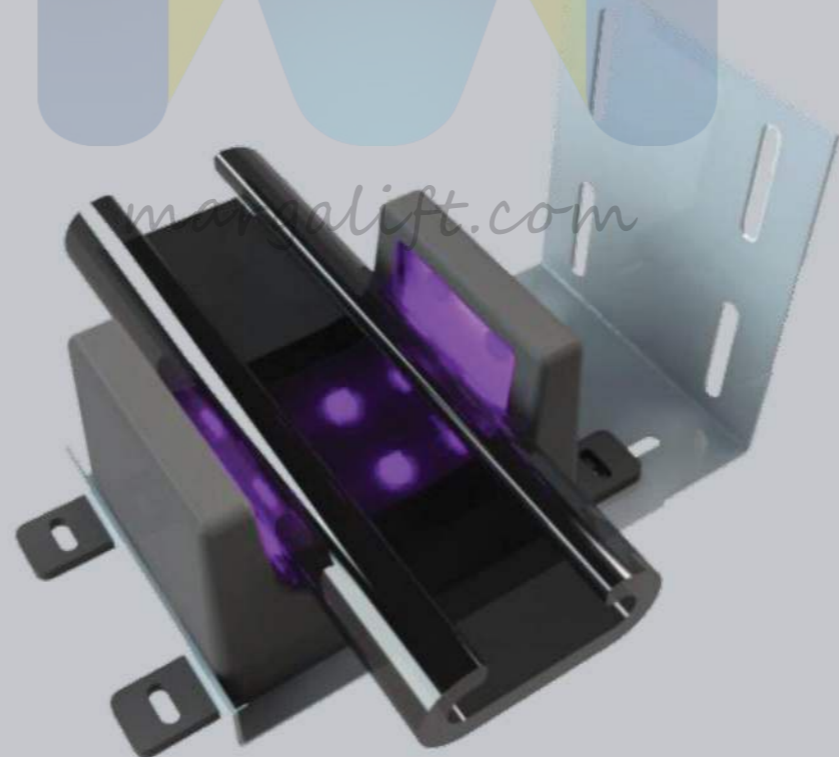


Sterile Touch

UV-C Escalator Handrail Sterilizer



01

Sterile Touch

MargaLift UV-C Escalator Handrail Sterilizer



Aesthetic Exterior Appearance

Our Sterile Touch, by its design of surrounding the handrail, and appearance perfectly reflect this technology capability of high sterilization.



Operation Monitor / User Visualization

Display of Normal Operation can be seen clearly on the skirt of the escalator.

Indicator of good operation show by a LED and positioned in the center of the handrail sterilized tag.

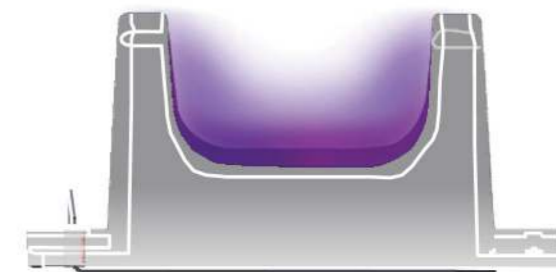
Easy to check during inspection and maintenance of your escalator.

Easy to understand for the final user of the escalator that it is a sterilized handrail.

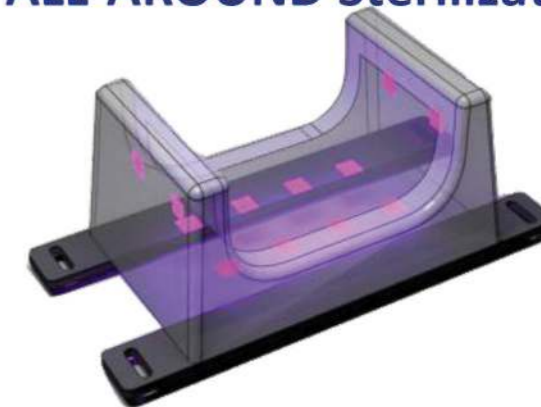


U TYPE

Integrated quartz glass, to permit the transmission of 100 % of the UV C ray for the best efficiency.



ALL-AROUND Sterilization



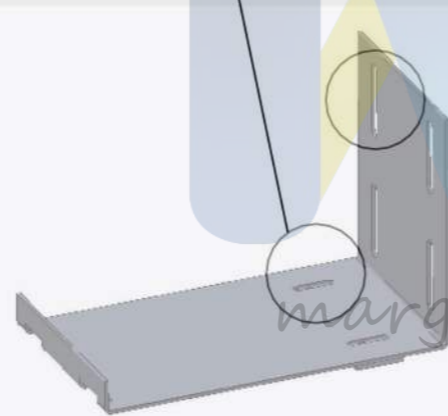
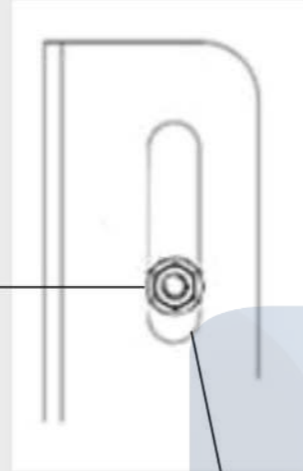
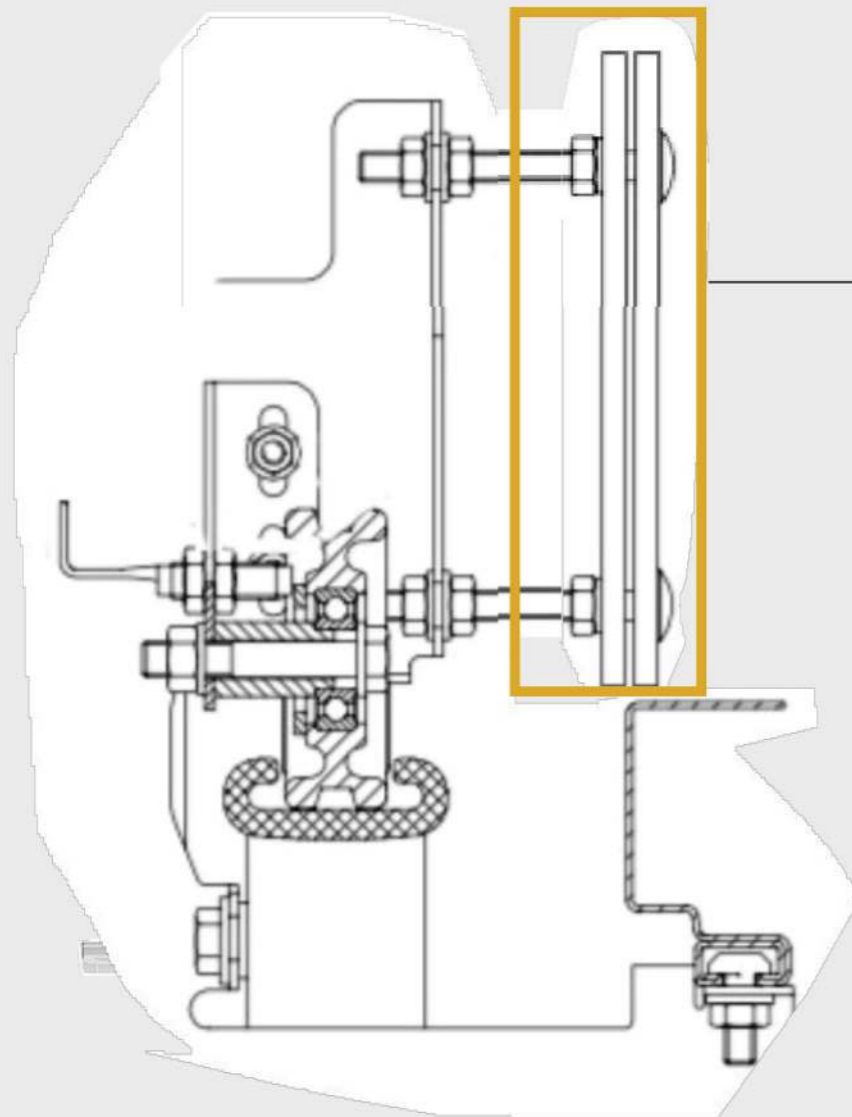
Professional Ceramic

LED UV-C light, Sapphire glass lens.

**UV-C Module(20mW*12ea)
Totally:240mW.(DC24V@100mA)**

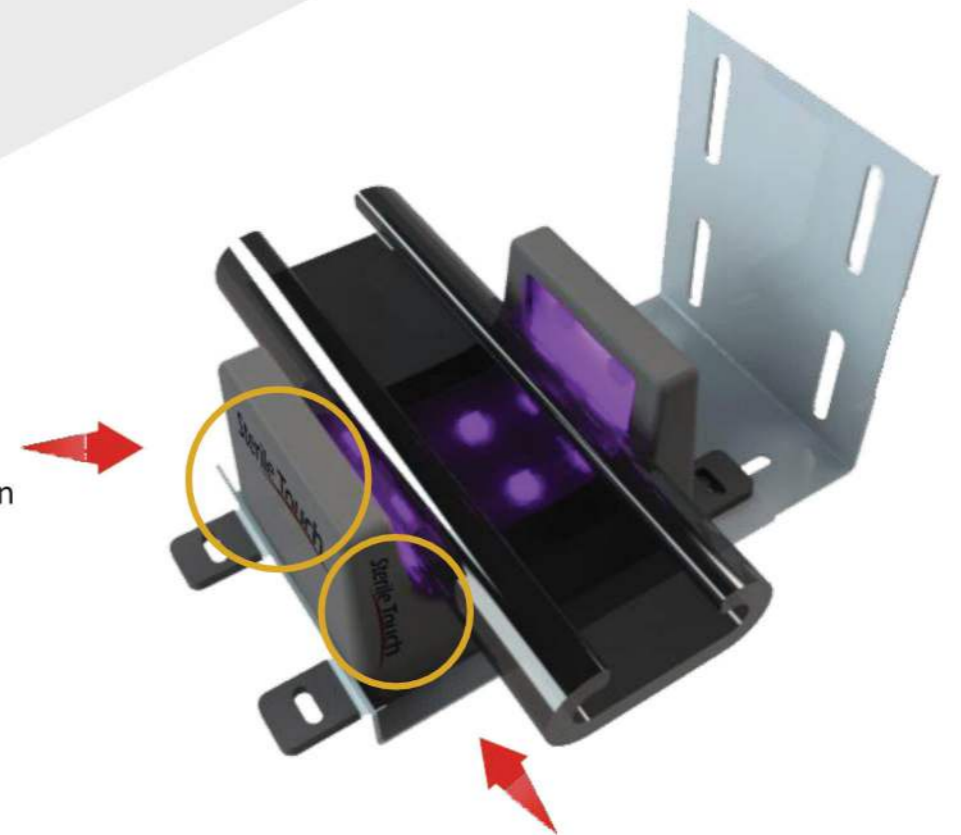
Easy And Safe Installation

- U groove hole to adapt perfectly and easily the module to the handrail
- The mounting bracket can be moved back and forth/ up and down by adjusting the bolt position
- Suitable for all type of Escalator and Moving walkway



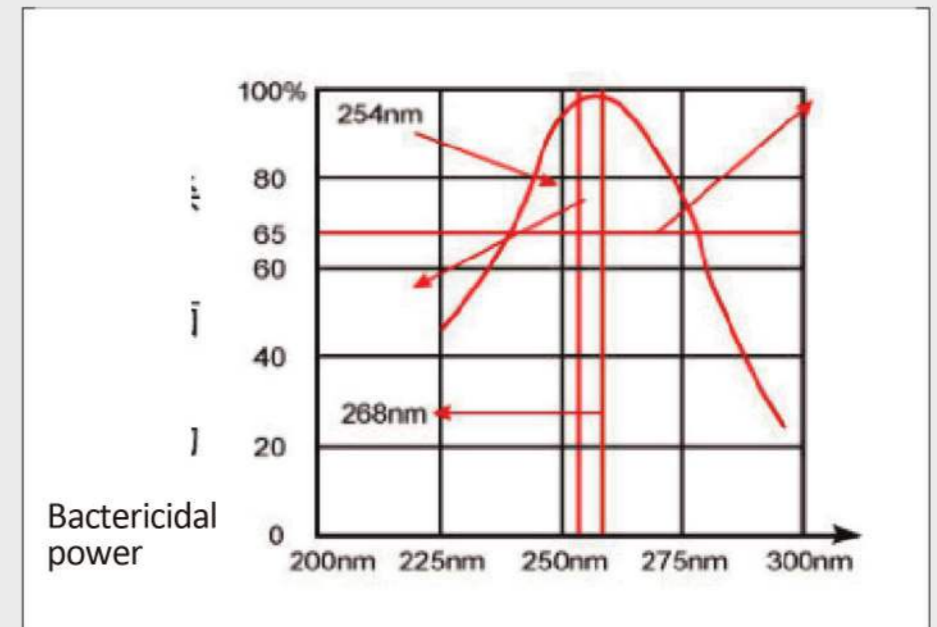
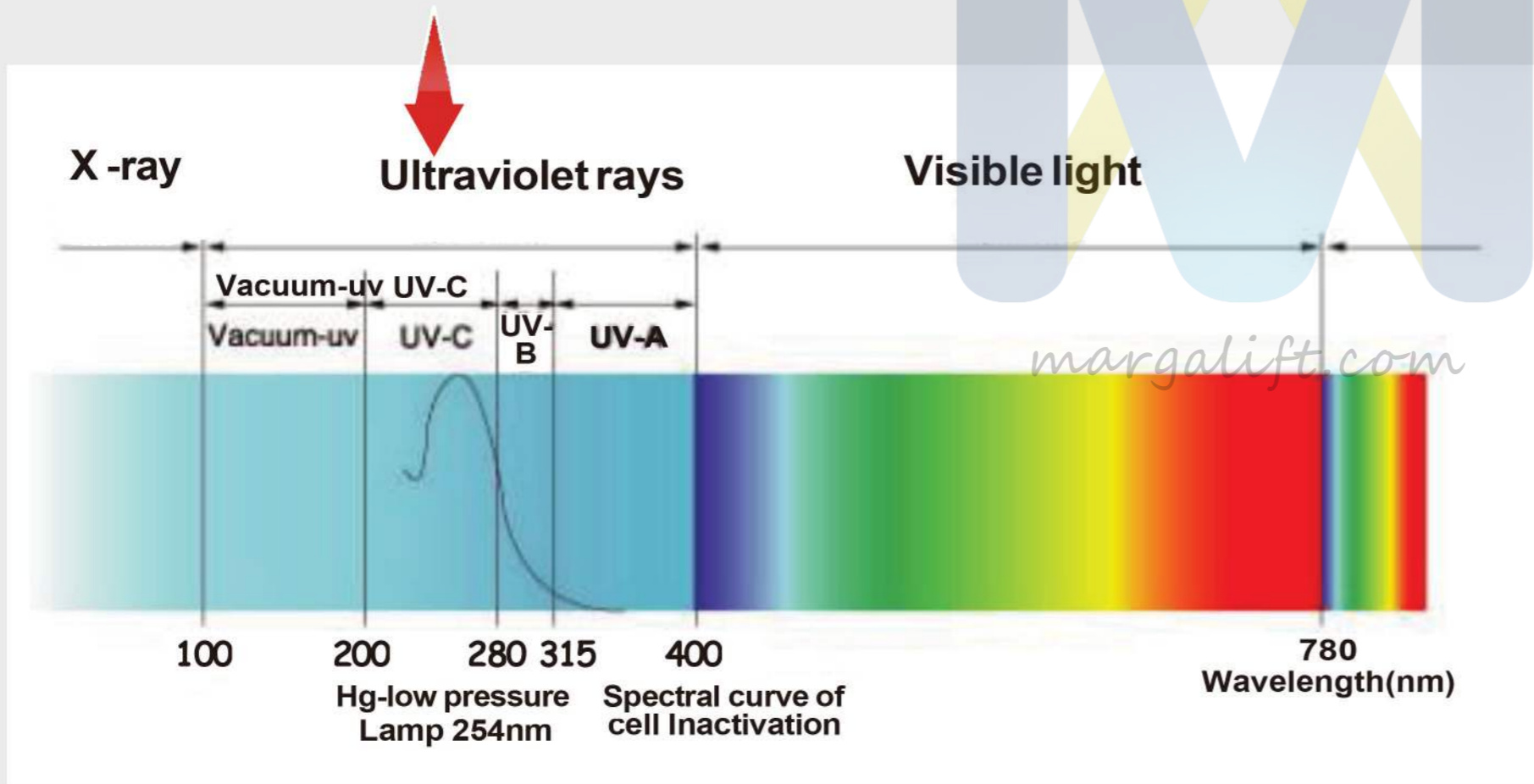
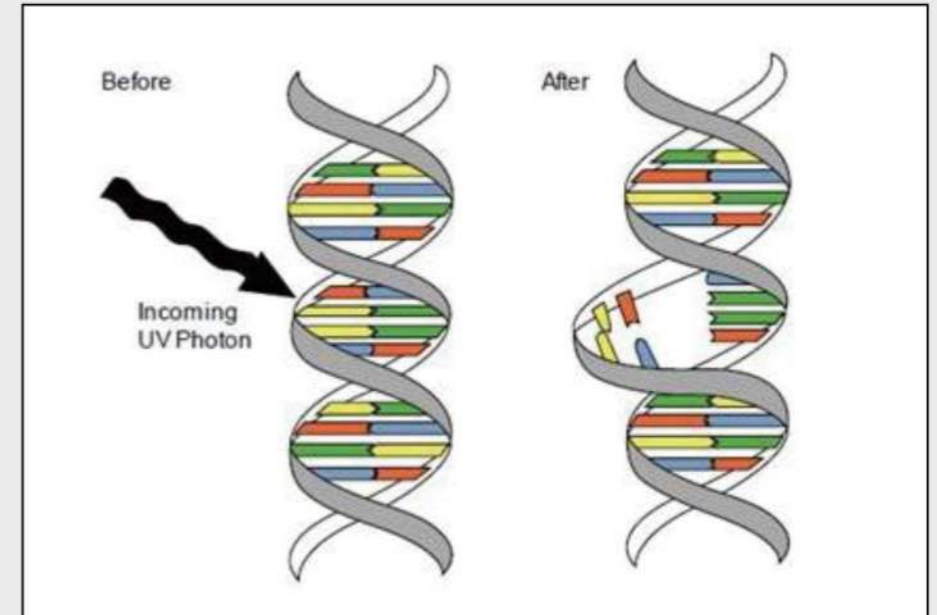
Tag your LOGO

Your own logo can be attached on the module as you request



Mechanism Of UV Sterilization

The irradiation of UVC to microorganisms such as bacteria and viruses will destroy the structure of the DNA (deoxyribonucleic acid) and RNA (ribonucleic acid) of the microorganism's cells. This causes DNA strand breaks, crosslinking of nucleic acids and proteins, and the death of growth cells and regenerative cells, to achieve the effect of sterilization.



Technical Parameters

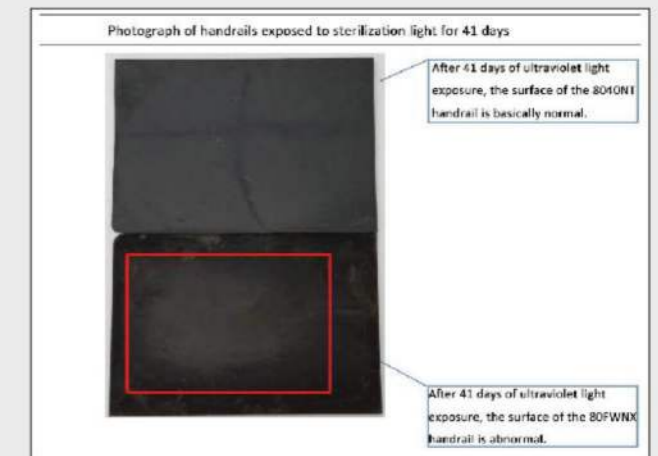
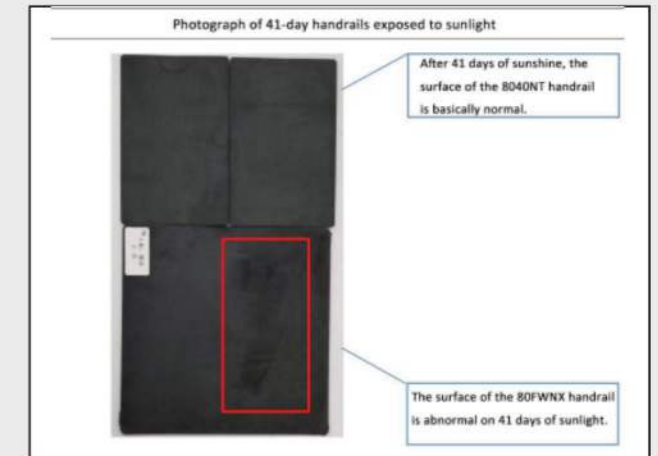
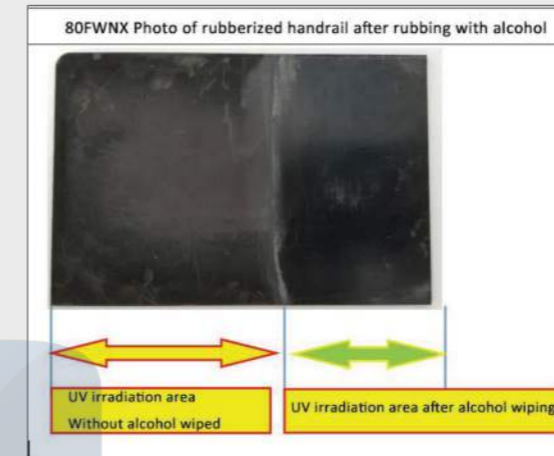
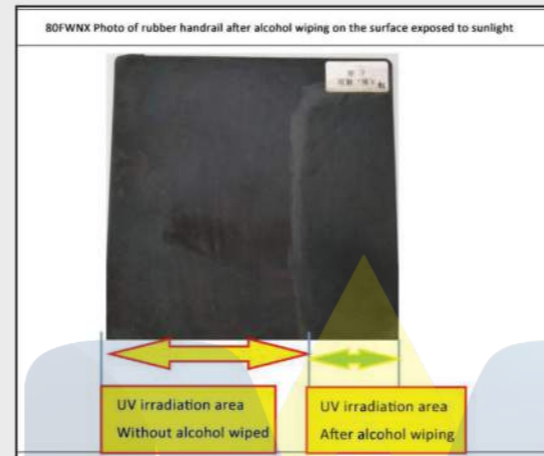
Material:	ABS,VO Flame retardant grade
LED light source:	Ceramic substrate and sapphire glass lens
Input Voltage	DC24V±10%
Input Current	< 0.3A
Wave length	270-280nm
LED Size	3535
LED Quantity	12PCS
Design Lifetime	10000H
IP Protecting Level	IP55
Working Temperature	-25°C~+60°C
Operation Relative Humidity	≤95%
Storage Environment	-30°C~+70°C
Best sterilization Distance	≤25mm(vertical distance between light emitting surface of lamp and handrail)
Irradiation Area	195*70mm
Initial Irradiance	≥70uw/cm2(@15mm)
Irradiance@10000Hrs	≥60uw/cm2(@15mm)
Off and On time	>300,000 times

Report On Germicidal Efficiency

			CFU	CFU	(%)	(KL)
Escherichia Coli (8099)	1min	1	20	3.3×10^6	99.99	5.26
		2	10	3.8×10^6	99.99	5.56
		3	25	3.7×10^6	99.99	5.16
				3.6×10^6	99.99	5.33
	2min	1	<5	3.3×10^6	>99.99	>5.86
		2	<5	3.8×10^6	>99.99	>5.86
		3	<5	3.7×10^6	>99.99	>5.86
				3.6×10^6	>99.99	>5.86
Staphylococcus aureus or "staph" (ATCC 6538)	1min	1	3.1×10^3	4.2×10^6	99.94	3.20
		2	2.8×10^3	4.8×10^6	99.94	3.24
		3	2.6×10^3	6.0×10^6	99.94	3.28
				5.0×10^6	99.94	3.24
	2min	1	2.1×10^3	4.2×10^6	99.99	4.37
		2	2.6×10^3	4.8×10^6	99.99	4.28
		3	2.4×10^3	6.0×10^6	99.99	4.31
				5.0×10^6	99.99	4.32

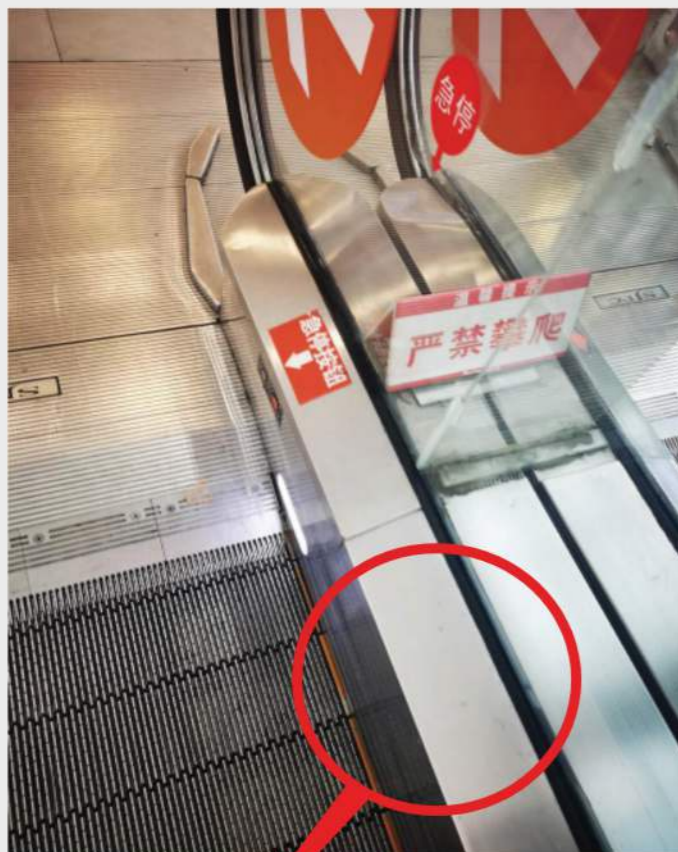
Analysis On The Influence Of Handrail Life

The results is showing that the physical properties of SBR and TPU of the handrail belt surface rubber layer did not change significantly after the exposure to sunlight and sterilization light.



Treatment Conditions	Handrail A			Handrail B			
	Without irradiation	Sunlight	Sterilization light irradiation	Without irradiation	Sunlight 1#	Sunlight 2#	Sterilization light irradiation
Hardness (shore A)	76	77	76	85	86	86	86
Tensile Strength (Mpa)	18.30	19.02	18.30	33.29	35.22	33.69	33.31
Elongation at break (%)	307.07	327.45	316.27	599.43	551.97	610.30	591.60
300% constant elongation (Mpa)	18.18	18.26	17.88	12.63	13.02	12.60	12.65

Tag Option



Installation position

 	<p>1</p> <p>Material: PVC Pastable 95*148mm</p>
	<p>2</p> <p>Material: PVC Pastable 300*95mm</p>
	<p>3</p> <p>LED Display 7 inch (Diagonal)</p>
	<p>4</p> <p>Material: Electro Luminescent 300*95mm</p>
	<p>5</p> <p>Material: Electro Luminescent 300*95mm</p>