



# Filmbase

Make Glass Do More

## Product Catalog

2021.V2

### Make Your Space



Security



Comfortable



Safety



Convenient



Privacy

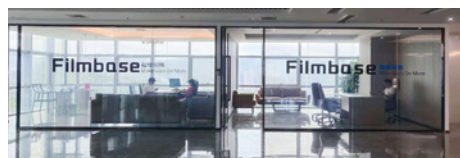
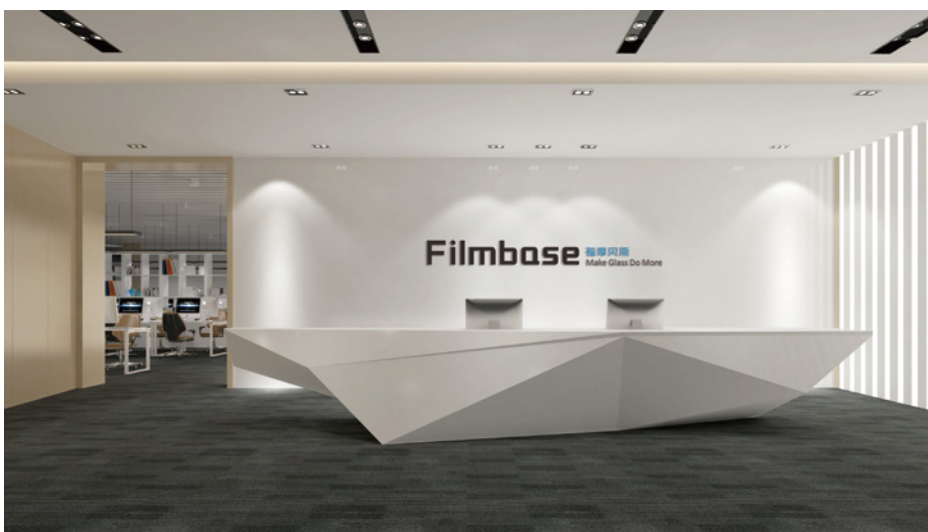


## COMPANY PROFILE

Filmbase is a well-known brand for smart glass solutions which we are today one of the world's leading manufacture & supplier for smart film & smart glass. Our market reputation for Filmbase is widely used in commercial & residential buildings, prestigious hotels, automobile industry, education and in medical & health care sectors.

As a globally recognized leader in the development and production of smart film technology, Filmbase® has a leading technology research and development laboratory and a modern factory base that exceeds international standards. With advanced testing equipment and multiple certifications, Our management system is strictly conducted according to ISO9001-2008 guidelines. Our products are certified to TUV/CE/RoHS/FCC/SAA/C-Tick/ETL / UL certification.

Filmbase® continues to provide complete smart film, dimming glass, transparent display and other solutions for our global partners and engineering projects.





## ENGINEER TEAM

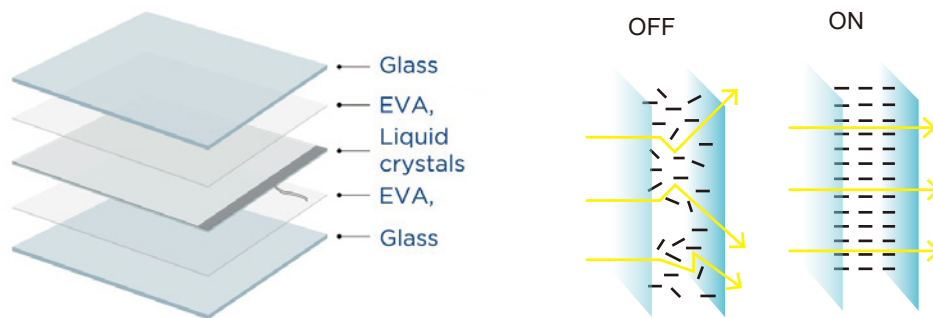
Filmbase® located in Shenzhen, China, is the leading innovator in R&D, manufacturing, and marketing of liquid crystal displays. Our chief engineer Mr Zhu Longshan and his 27 engineers focus on new materials researching and developing more than 10years, with over 10years of experience and ongoing innovation, Our Film and Glass division has been manufacturing Switchable Privacy Glass ,artistic film and display film for today's technology demands.





# Smart Glass Series

Filmbase® Smart Glass films are laminated between two pieces of glass with adhesive interlayers (PVB, EVA, TPU, UA) to create Smart Glass. Filmbase® Smart glass can be comprised of various types of glass to best fit a projects needs. It allows glass to turn on, off, or anywhere in between in milliseconds for diverse light control applications

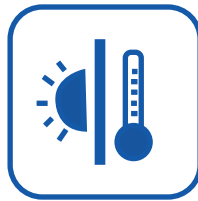


## Benefits



### Dynamic Privacy

Complete privacy or transparency when you need and want it most



### Temperature Control

Solar Control smart films reflect IR light providing cooler interiors and less HVAC costs



### High ROI

Mitigate longterm costs associated with cleaning, cooling, and signage



### Dynamic Designs

Custom shapes and patterns add style and function to windows and partitions



### Optimize Space

Replace thick studded walls with thin partitions or section open floor plans with minimalist solutions



### Easy To Clean

Eliminate fabric or electronic curtains that are hard to clean and collect germs while affecting designs



### Enhance Wellbeing

Provide light or privacy and give users flexibility to control their space for greater sense of control and wellbeing



# Laminated Smart Glass Technologies

The following films are available as laminated smart glass for projects worldwide, or as raw material rolls and sheets to be laminated by qualified glass processors



## WHITE

White PDLC Films provide a clean, natural, and aesthetic switchable glass solution, allowing privacy when you need it, and an open atmosphere when you want it



## DARK

Dark PDLC Films support advanced architectural and interior design strategies, and are applicable across all industries and applications, including automotive and aeronautics



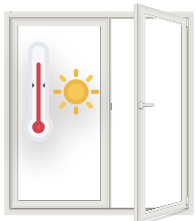
## PATTERNS

Laser patterning with non-visible lines support blinds or custom designs for a dynamic and sophisticated privacy and light-control solution that replaces traditional shutters



## VIZIO

Active and Passive Projection films allow HD displays to become transparent for 100% utilization of windows, switches from transparent to opaque



## HIGH TEMP

Outdoor grade high-temperature products maintain full optical and mechanical performance in extreme temperatures ranging from -30°C to +90°C



## SOLAR

Reflecting 78% of IR light, temperatures within a space can be reduced by up to 15°C, making buildings more green with reduced HVAC costs



Model:SG - 55 - 1000 - 1000 - N



SG= Smart Glass	55=5+5mm Temper glass 66=6+6mm Temper glass 88=8+8mm Temper glass	1000=1000mm Width	1000=1000mm (Length)	N=Normal U=UV-Painted M= Multifunctional V= Variform
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Parameter	Status	SG-series				
	ON/OFF	SG-XX-XXX-XXX-C	SG-XX-xxx-xxx-N	SG-XX-XXX-XXX-A	SG-XX-XXX-XXX-S	SG-XX-XXX-XXX-I
VLT (Parallel light transmittance)	OFF	3%±1%				
	ON	85%±1%				
Total Transmittance	ON	82%/88%(High Transmittance)				
	OFF	65%±1%				
Haze	ON	<3%±1%				
	OFF	>95%±1%				
Off-axis Haze 45°	ON	8-11%				
Width		MAX1800MX6000M				
Switching Time	ON	200ms				
	OFF	220ms				
Operating Modes		ON/OFF/DIM				
Operating Voltage		AC60V				
Power Input		AC100-120V60Hz / 220-240V50Hz				
Controller		FILMBASE dedicated remote power supply				
Power Consumption	ON	avg. 3W/m <sup>2</sup>				
Operating Temperature		-20°C to 120°C				
IR Block		85%±1%				
UV Block		99%				
Viewing angle	ON	160°±1°				
Length tolerance		+0/-2mm				
Width tolerance		+0/-2mm				



# Self adhesive smart films Series

It designed to be retrofitted into an existing space for an instant upgrade ,This adhesive smart films work just like laminated smart glass, instantly switching from opaque to transparent for dynamic light control. Installed by trained film installers onto existing windows and glass partitions

VANLONG SELF-ADHESIVE PDLC FILM STRUCTURE



Filmbase self adhesive smart films

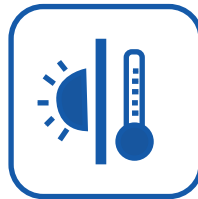
Filmbase self adhesive smart films

## Benefits



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### Enhance Wellbeing

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Model:SF - R - 1000 - 1000 - N



SF	R	1000	1000	N
SF=Self-adhesive Film	R=Roll P=Piece	1000=1000mm (Width)	1000=1000mm (Length)	N=Normal U=UV-Painted M= Multifunctional V= Variform

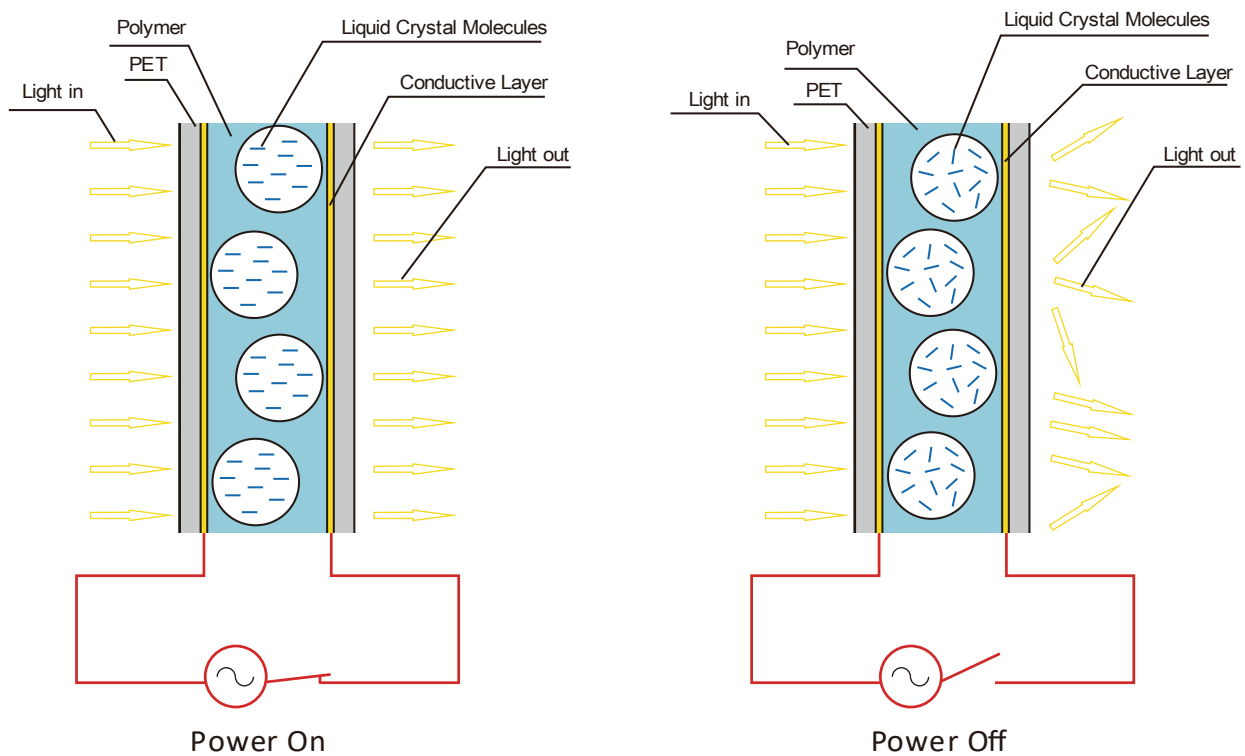
Note: Films in Roll refer the first four columns

Parameter	Status	SF-R	SF-P		
	ON/OFF	SF-R-xxxx-xxx	SF-P-xxxx-xxx-N	SF-P-xxxx-xxx-V	SF-P-xxxx-xxx-M
VLT (Parallel light transmittance)	OFF	3%±1%			
	ON	85%±1%			
Total Transmittance	ON	82%/88%(High Transmittance)			
	OFF	65%±1%			
Haze	ON	<3%±1%			
	OFF	>95%±1%			
Off-axis Haze 45°	ON	8-11%			
Width		MAX ≤1840mm			
Film Thickness		0.35-0.55mm			
Switching Time	ON	200ms			
	OFF	220ms			
Operating Modes		ON/OFF/DIM			
Operating Voltage		AC60V			
Power Input		AC100-120V60Hz / 220-240V50Hz			
Controller		FILMBASE dedicated remote power supply			
Power Consumption	ON	avg. 4-6W/m <sup>2</sup>			
Operating Temperature		-20°C to +110°C			
IR Block		85%			
UV Block		99%			
Viewing angle	ON	160°+1%			
Length tolerance		+0.5/-0 meter	+0/-2mm		
Width tolerance		+5/-0mm	+0/-2mm		



# Laminated Smart Film Series

Filmbase® smart film technology consists of a special Liquid Crystal formulation that is coated between two sheets of PET-ITO, and then UV cured, creating a single film. dims or turns on and off from opaque to transparent with our patented control systems supporting dynamic light control.

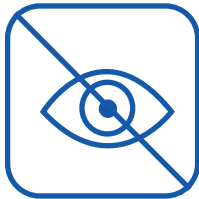
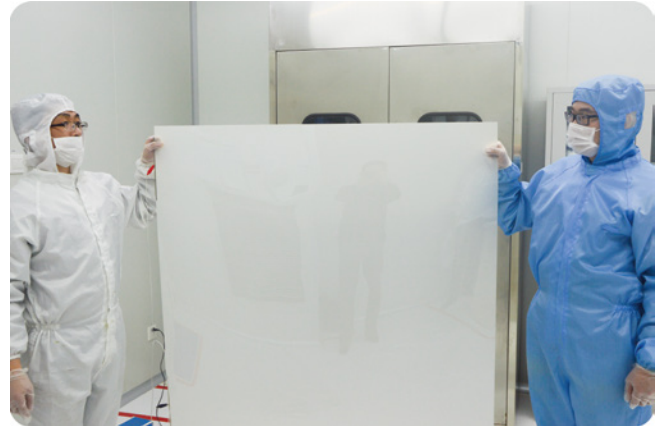


Our products mainly include Smart film (including laminated smart film and self-adhesive smart film), Smart glass and smart power adapters



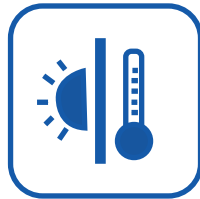
## Laminated Smart Film

Filmbase® PDLC Film consists of a polymer matrix of liquid crystals enclosed by electrically conductive Indium Tin Oxide-coated PET film. The resulting PDLC Film has wiring attached to a conductive copper strip along the film's edge. This wiring is connected to a step-down transformer through which power is supplied for the "on" (clear) state.



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### Temperature Control

Solar Control smart films reflect IR light providing cooler interiors and less HVAC costs



### High ROI

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### Dynamic Designs

Custom shapes and patterns add style and function to windows and partitions



### Optimize Space

Replace thick studded walls with thin partitions or section open floor plans with minimalist solutions



### Instant Upgrade

Easy-to-install film converts ordinary glass into smart, dynamic glass for immediate use

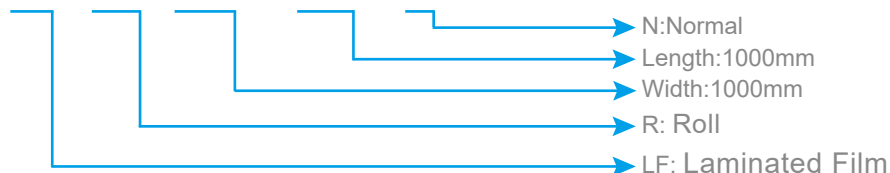


### Enhance Wellbeing

Provide light or privacy and give users flexibility to control their space for greater sense of control and wellbeing



Model:LF - R - 1000 - 1000 - N



LF	R	1000	1000	N
LF=Laminated Film	R=Roll P=Piece	1000=1000mm (Width)	1000=1000mm (Length)	N=Normal U=UV-Painted M= Multifunctional V= Variform

**Note:** Films in Roll refer the first four columns

Parameter	Status	LF-R	LF-P		
	ON/OFF	LF-R-xxxx-xxx	LF-P-xxxx-xxx-N	LF-P-xxxx-xxx-V	LF-P-xxxx-xxx-M
VLT (Parallel light transmittance)	OFF	3%±1%			
	ON	85%±1%			
Total Transmittance	ON	82%/88%(High Transmittance)			
	OFF	65%±1%			
Haze	ON	<3%±1%			
	OFF	>95%±1%			
Off-axis Haze 45°	ON	8-11%			
Width		MAX ≤2050mm			
Film Thickness		0.35-0.55mm			
Switching Time	ON-OFF	200ms			
	OFF	220ms			
Operating Modes		ON/OFF/DIM			
Operating Voltage		AC60v			
Power Input		AC100-120V60Hz / 220-240V50Hz			
Controller		FILMBASE dedicated remote power supply			
Power Consumption	ON	avg. 3W/m <sup>2</sup>			
Operating Temperature		-20°C to +110°C			
IR Block		85%±1%			
UV Block		99%			
Viewing angle	ON	160°±1°			
Length tolerance		+0.5/-0 meter	+0/-2mm		
Width tolerance		+5/-0mm	+0/-2mm		



# Applications

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## ► Office

Filmbase® Smart Glass makes your office more beautiful, saves energy and gives privacy when needed





# ► Residential

Filmbase® Smart Glass makes your home more secure, gives privacy and more space





# ► Hotel

Filmbase® Smart Glass makes your hotel more impressive, efficient and more comfortable.





## ► Store

Filmbase® Smart Glass makes your store more attractive, impressive and more creative



## ► Service Counter

Filmbase® Smart Glass makes your Service counter safer, more efficient and more novel





# ► Hospital

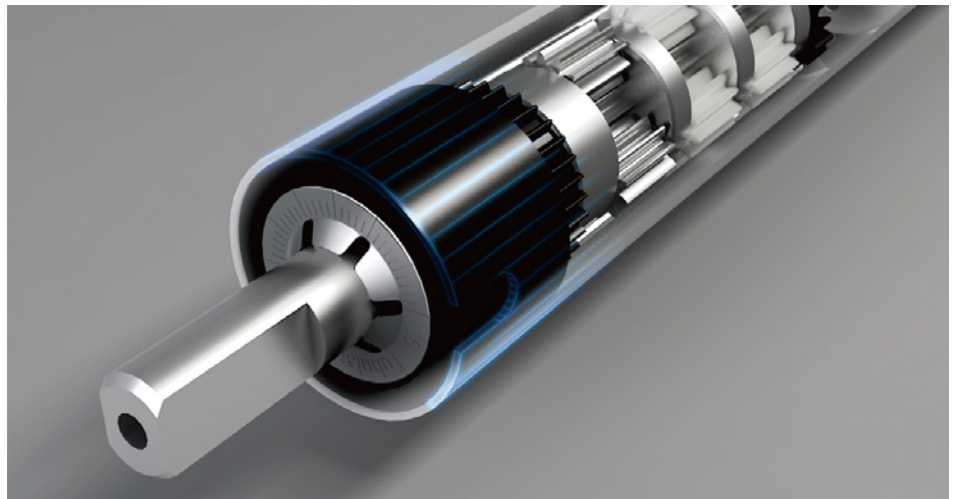
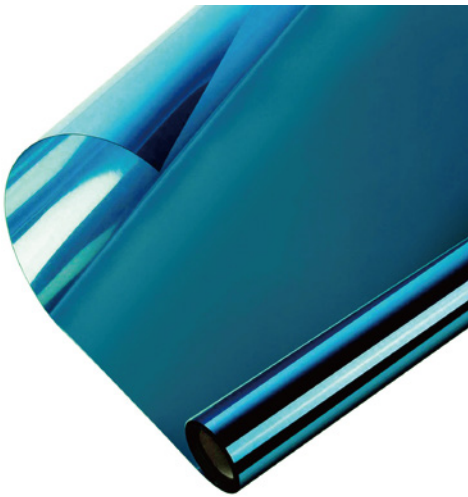
Filmbase® Smart Glass make your Hospital more security ,health and more comfortable.





# Filmbase Smart Film Curtain Series

The smart film curtain uses a kind of fabric different from existing curtains. It is a kind of high-tech fabric made from flexible film through high-efficiency light induction, magnetron sputtering, and nano-material in-membrane lamination technology.

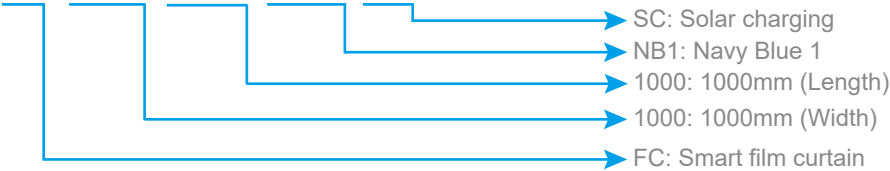


## Features:

- 1.Shading and heat insulation: Block sunlight, reduce sunlight exposure, and reduce energy consumption of air conditioner;
  - 2.Blocking radiation: Block 99% of UV and more than 82% of infrared radiation, reducing the sun's damage to the skin;
  - 3.Clear vision: Maintain a certain light transmittance without affecting the field of view;
  - 4.Smart control: Controlled by remote control or other smart methods;
  - 5.Flame retardant: In line with UL94 V-0 flame retardant rating;
  - 6.Healthy and green: Use green materials, which have no harm on human health;
  - 7.Dust-proof and dirt-resistant: Flat and smooth surface prevents dust adsorption and ensures easy cleaning;
  - 8.Wide range of applications: Applicable to offices, airports, buildings, clubhouses, schools, sunshine rooms, government agencies, banks, etc.;
- Long service life: More than 20 years, low annual cost.



Product Model:FC-1000-1000-NB1-SC



Note: The width is based on the length of the winding box, and the width of the film is the length of the winding box minus 10mm.

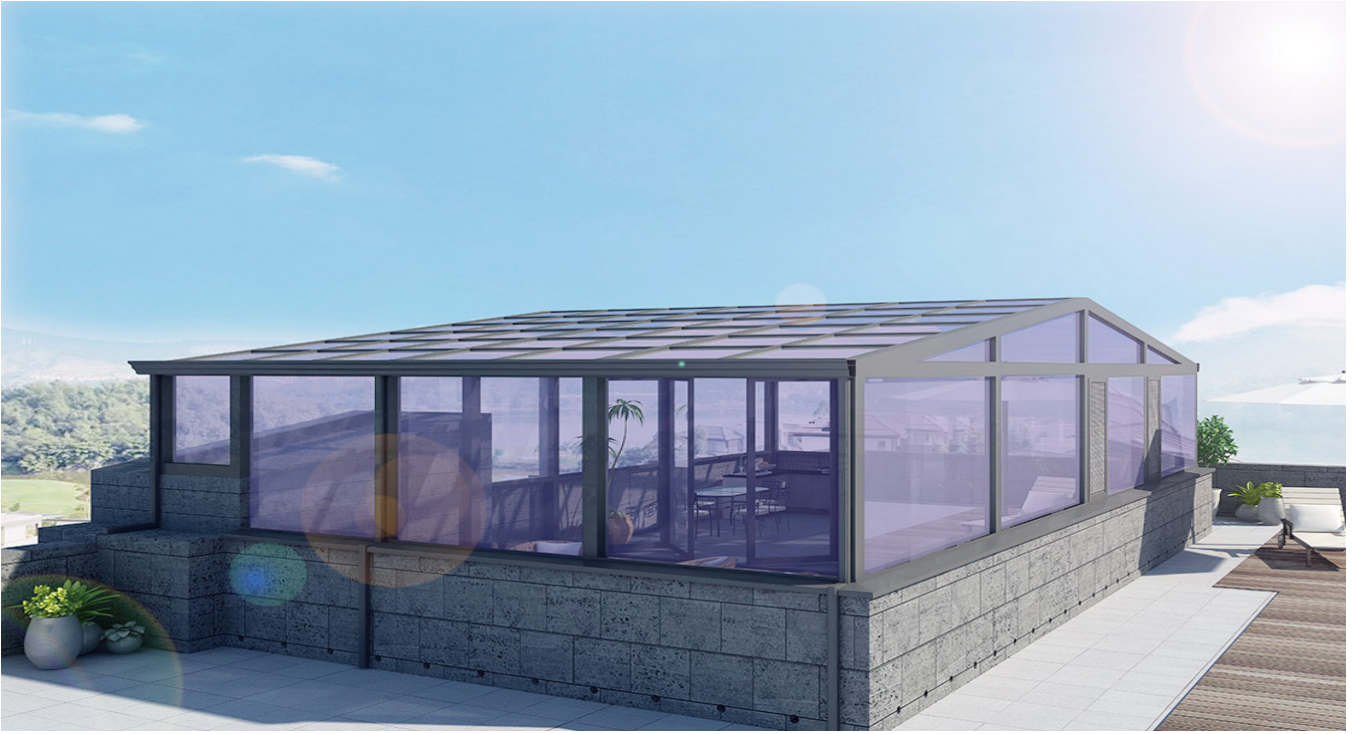
FC	1000	1000	NB1	SC
FC= Smart film curtain	1000=1000mm(Width)	1000=1000mm(Length)	NB1=Navy Blue 1 NB2=Navy Blue 2 NB3=Navy Blue 3	SC=Solar charging

Technical parameters:		FC-XXX-XXX-NB1-SC	FC-XXX-XXX-NB2-SC	FC-XXX-XXX-NB3-SC
Film parameters	Pictures			
	Thickness	0.1mm	0.08mm	0.1mm
	Width	MAX3.2M	MAX2.2M	MAX3.2M
	Transmittance	9%	20%	3%
	IR blocking rate	92%	82%	95%
	UV blocking rate	99%		
	Flame retardant rating	B pole	NA	Class B
	Warranty	5 years		
	Service life	20 years		
	Certification	CE, FCC, ROHS		
Motor parameters	Input voltage	DC5V		
	Power	5W		
	Current	0.75A		
	Rotating speed	30r/min		
	Torque	0.3N·m		
	Warranty	5 years		
	Service life	8 years		
	Certification	CE, FCC, ROHS		
Solar panel parameters	Size	L210*W65*T4mm		
	Open circuit voltage	13.5V		
	Operating voltage	12V		
	Short circuit current	145mA		
	Operating current	130mA		
	Conversion efficiency	19.5%		
	Warranty	3 years		
	Service life	20 years		
	Certification	CE, FCC, ROHS		
Accessories	Remote control	Yes, 2 years warranty		
	Power adapter	Yes, 2 years warranty		
	Certification	CE, FCC, ROHS		



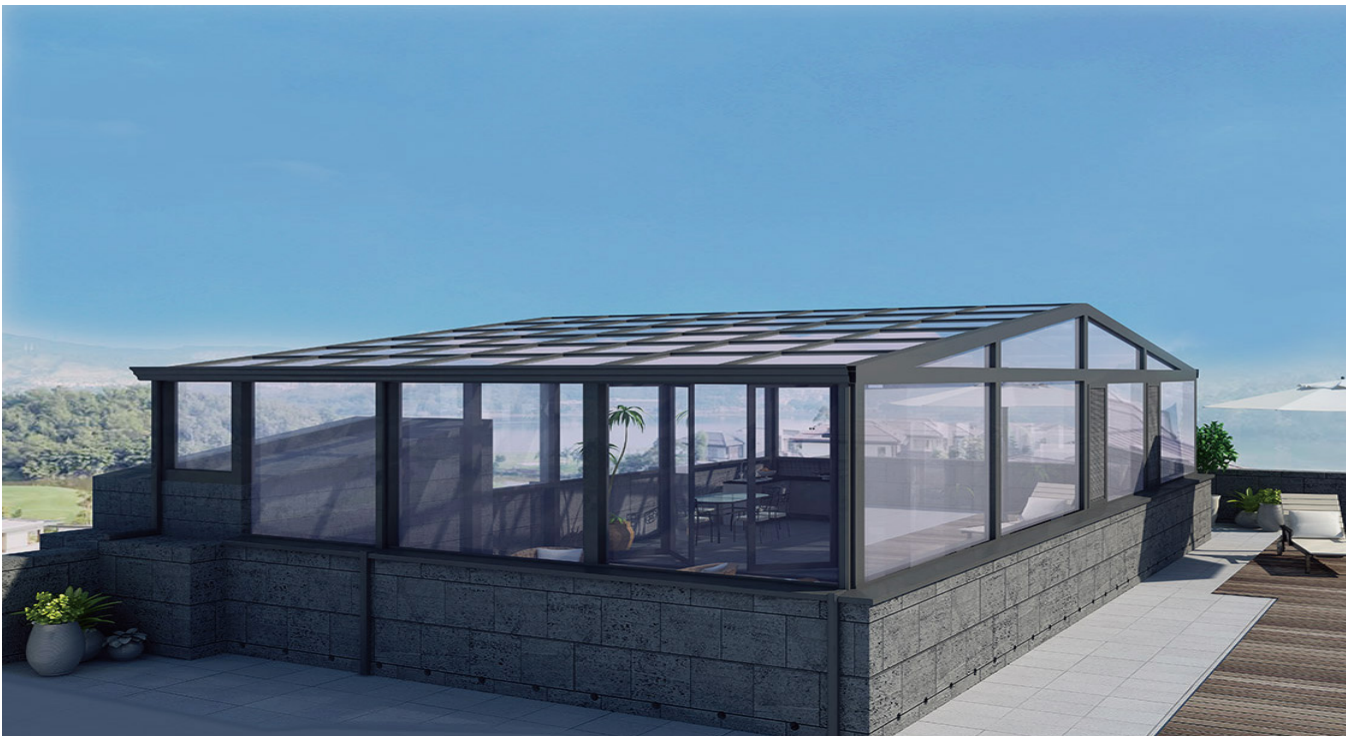
# Applications

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In the daytime, under the scorching sun, the color of the light control film becomes darker, so as to achieve the heat insulation effect and greatly reduce the ultraviolet and infrared rays.

The sun is no longer dazzling. Maintain a comfortable level of human body in the space.



On cloudy days, afternoon or evening, the color depth of the time control film becomes weak, bringing high-definition vision.









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