

FILMBASE<sup>®</sup>



**Your Space  
We Care**



# FILMBASE

New material technology leader  
for vision and space

As an important partner of FILMBASE, we would like to keep you up to date with more information about our full range of products and our company.



Filmbase is a global leader in vision and light control solutions, focused on the research, development, manufacturing, and marketing of vision and light control technologies that support safe, smart, sustainable, comfortable, and agile user experiences across different industries such as Buildings, Commercial, Residential, Auto and advanced high tech products materials, with more than 150 patents. We are the only company in the Smart Film/Glass industry that has passed the authoritative certificates of CCC, UL, PSE, CE, CB, FCC, RoHS, BS EN 12150, BS EN14449, BS EN1279 and more than 150 patents home and abroad.

As leaders in technologies used to address vision and the control of it, Filmbase's vision for today and the future is, make materials do more for a better and smarter sustainable development world. To make this happen, Filmbase created more than 300,000 sqm vision and light control manufacturing centre in 2017, together with our global partners, offer the most advanced solution and best service to customers.

Our mission is to create surfaces, systems, and solutions that are smart and multifunctional for the spaces. From glass that switches transparent to opaque for privacy or dimmable shading in architecture, automotive and transportation, transparent displays Materials for City Image, buildings, Commercial, a new era in digital signage and communication with less and less energy and materials.

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**Company:** Shenzhen Filmbase Technology Co., Ltd

----- PROVIDE -----

**Brand:**

**FILMBASE** 

----- HAVE -----

**Products:**

PDLC Film | Switchable Glass | Media Glass | LED Film  
UTD<sup>AR</sup> Film | DLC Film | Polarized Film

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# MILESTONES OF DEVELOPMENT

**2017**

Established revolutionized PDLC switchable Film formula, process, materials, equipment and manufacturing .

**2019**

Become one of Largest PDLC Film manufacturing center , produce widest and largest size, highest transmittance, more than 100 invention and utility model patents, Number 1 marketing share in China .

**2018**

Established Nano materials and LED glass R&D Center

**2020**

Established 3 subsidiaries  
Yuguang Optoelectronics  
Chongqing Yuguang Smart Glass  
Chongqing Yuguang New Material Co., Ltd



# 2021

Established the Global brand (Filmbase), export to 81 countries and regions, Number 1 marketing share in the world .

# 2023

Preparing IPO  
Established YuGuang Energy ( perovskite )

# 2022

Established joint production bases in 20 countries, including the United States, Germany, Dubai, Brazil, Norway .

# 2024

Expand HQ to Pingan international center .Continuously innovate and improve, and continue to provide partners with absolutely competitive advanced new material products and comprehensive solutions.

# Product + Solution

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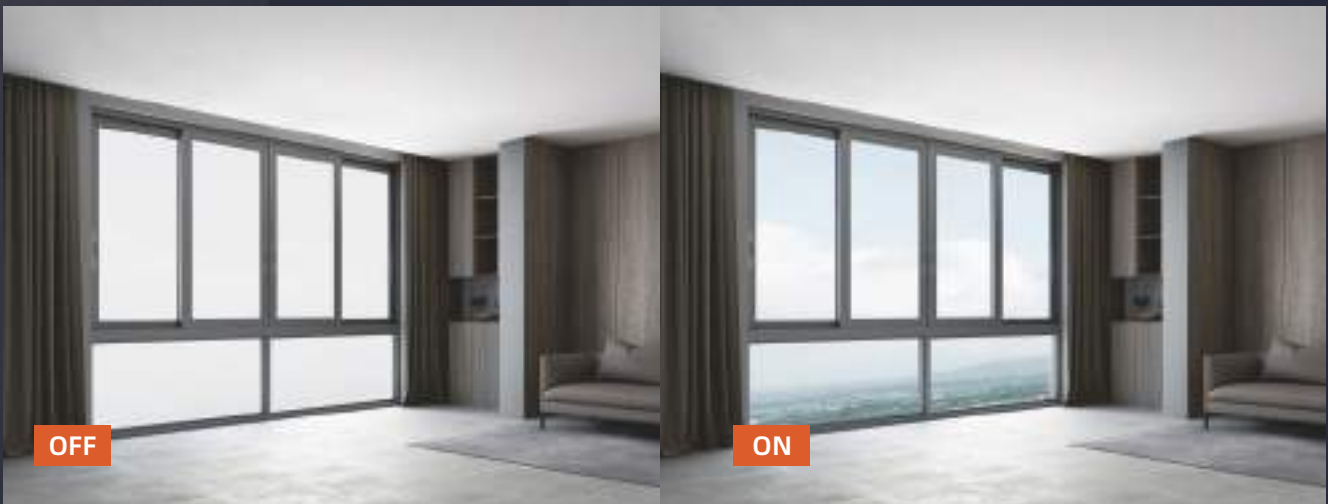
## 091

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# PDLC FILM

Polymer Dispersed Liquid Crystal (PDLC) smart films is commented the most advanced curtain today and future , designed new or retrofit an existing space for an instant upgrade , instantly switching from opaque to transparent for dynamic light control with a HD real projection function ,Widely used in interior and architectural design, commercial center ,rail transportation, and even avant-garde industrial products.



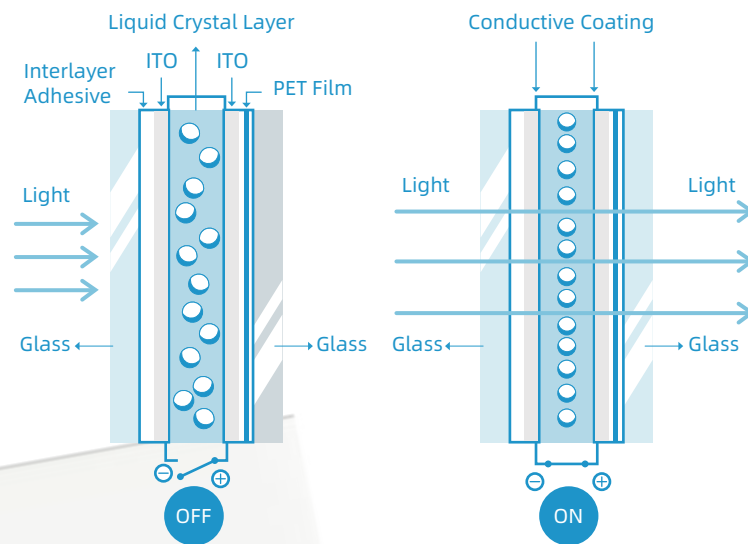
# Technical Principles

## PDLC Film

PDLC (Polymer Dispersed Liquid Crystal) film is a new material electronic light control product that allows the user to control the perspective of the glass and the intensity of the light with very little energy, by injecting a liquid crystal/polymer hybrid material injected in the middle of two transparent conductive films.

PDLC film in the absence of an electric field, the electronically controlled PDLC FILM is in an opaque state.

When an alternating current is applied, the liquid crystal molecules are arranged in an orderly manner, at which point the PDLC film changes from an opaque state (OFF) to a transparent state (ON).



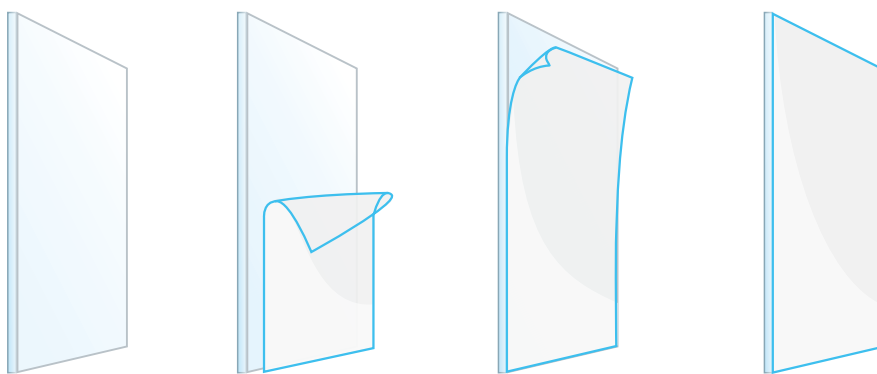
PDLC



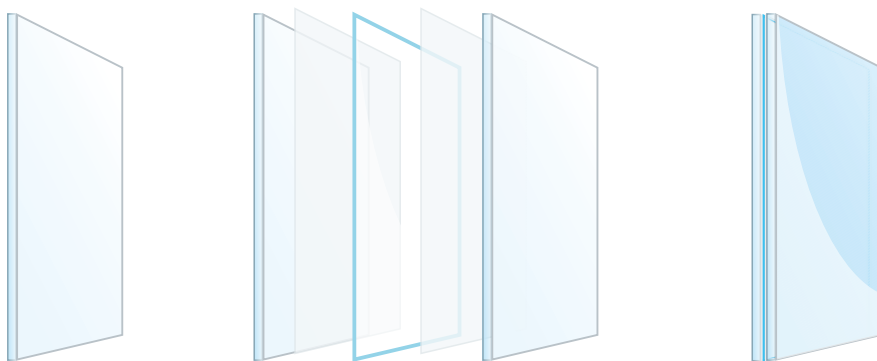
# Two types

## PDLC Film

There are two types of PDLC films, self-adhesive film and adhesive film for front-end design and post-retrofit projects.



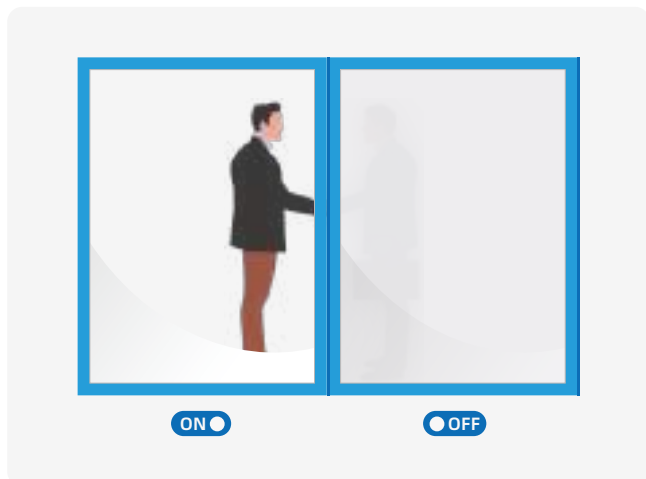
Self-adhesive PDLC film



Laminated PDLC film

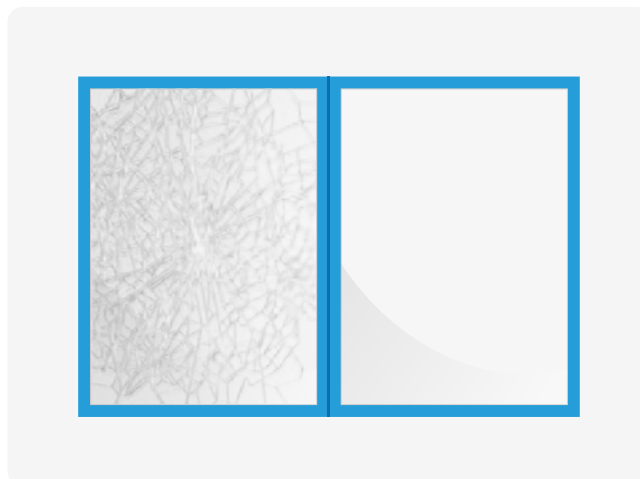
# Characteristics

## PDLC film



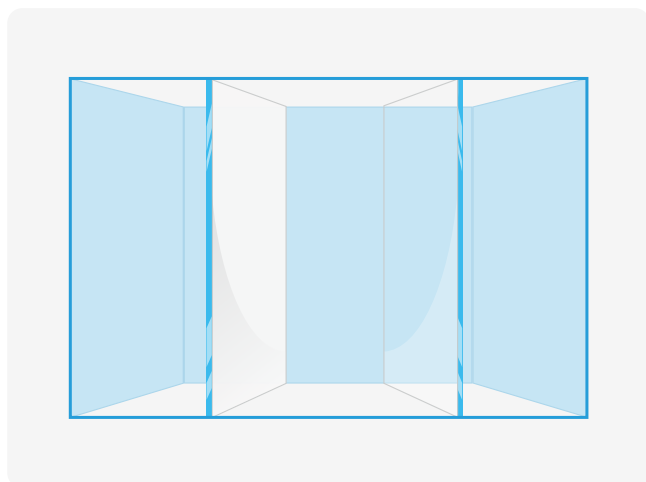
### Privacy protection

To protect your privacy and security, you can control it to be transparent or opaque at any time. Make your space more malleable, choose open or private at will.



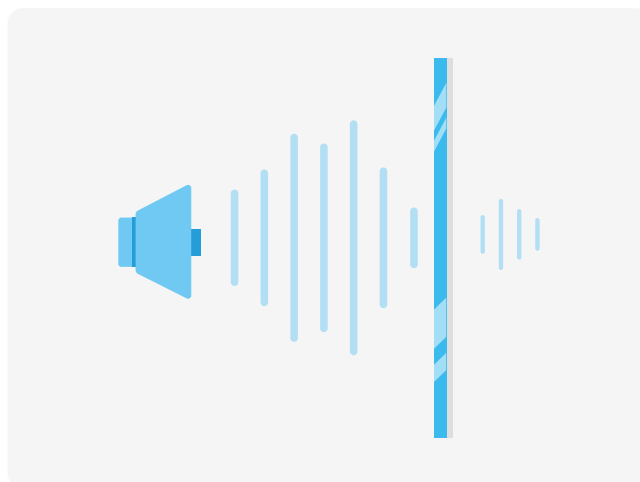
### Security

Even if the glass is broken, the fragments can still be adsorbed on the PDLC film, which can avoid personal injury caused by broken glass.



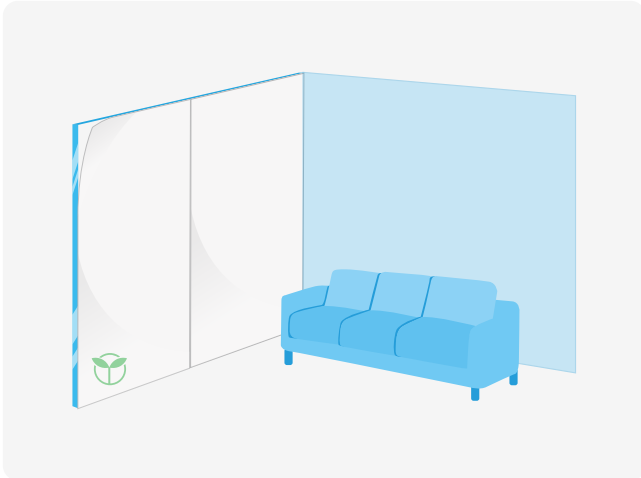
### Space partition

With the use of PDLC film, glass partitions can easily differentiate between different spaces, making your three-dimensional space more malleable and versatile.



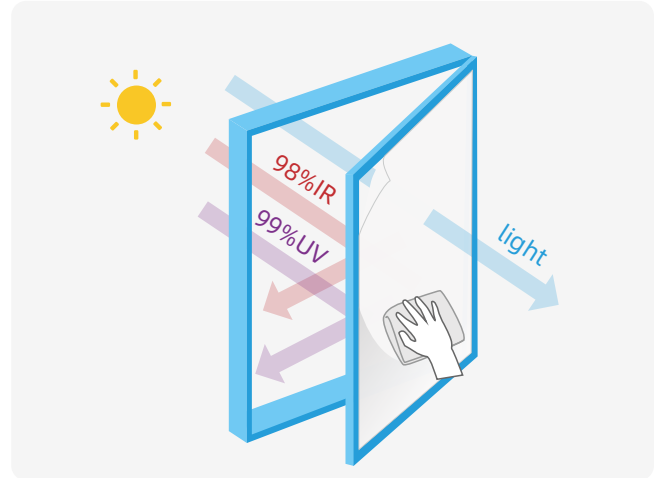
### Anti-noise

Compared with ordinary glass, the anti-noise ability of glass using Filmbase PDLC film is increased by 20%.



## Environmental protection

The installation of PDLC film can effectively reduce the loss of decoration, which can better reduce pollution and protect the environment.



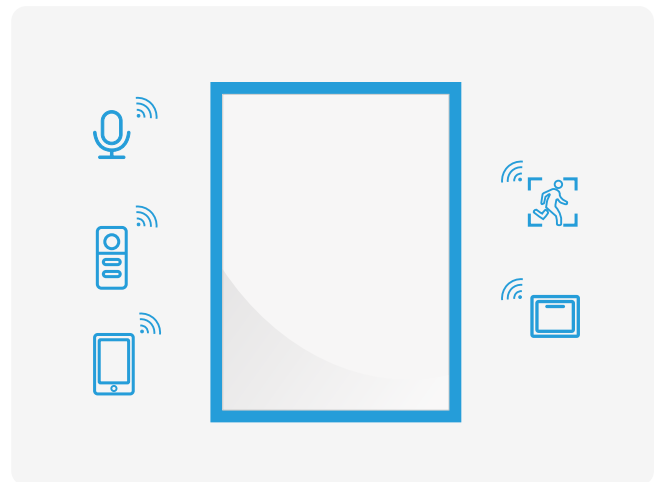
## Heat-resistant and anti-scratch

The maximum operating temperature is 105°C, which allows the product to continue to operate at higher temperatures. The anti-scratch layer protects the surface of the product from daily scratches and does not affect the clarity of the product itself.



## Touch screen and projection

Using a high-definition projector, it is easy to realize the viewing scene, with a viewing angle of 180°, 4K picture quality display effect, and with the radar can be multi-touch, video interaction.



## Various control methods

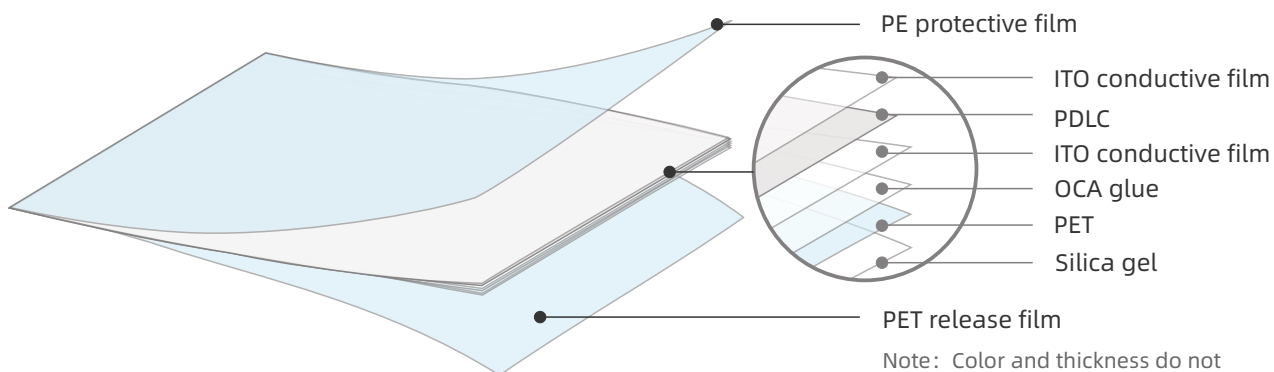
In order to meet your various needs, you can choose your preferred control method: remote control, wired control, infrared induction, voice control, mobile application, etc. In addition, an FM transformer can be selected to gradually change the film.



# FILMBASE 091

FILMBASE 091 is the luxury PDLC film in the today market with 90%-92% transmittance, < 3% haze, which maximizes the clarity of the original glass and enhances privacy.

It is used in scientific research institutions, intelligence agencies, luxury villas, president's office, super 5-star hotels, Hollywood theaters, and other places that require ultra-transparency and absolute privacy.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.

## Size

FILMBASE 091

Items			
Adhesive PDLC film	Total Thickness		0.47mm
	Cut to Sheet	Width	100-1800(mm)
		Length	100-50000(mm)
	Roll	Width	1200,1500,1800(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches
Laminated PDLC film	Total Thickness		0.38mm
	Cut to Sheet	Width	100-1800(mm)
		Length	100-50000(mm)
	Roll	Width	1200,1500,1800(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches

## Optical Parameter

FILMBASE 091

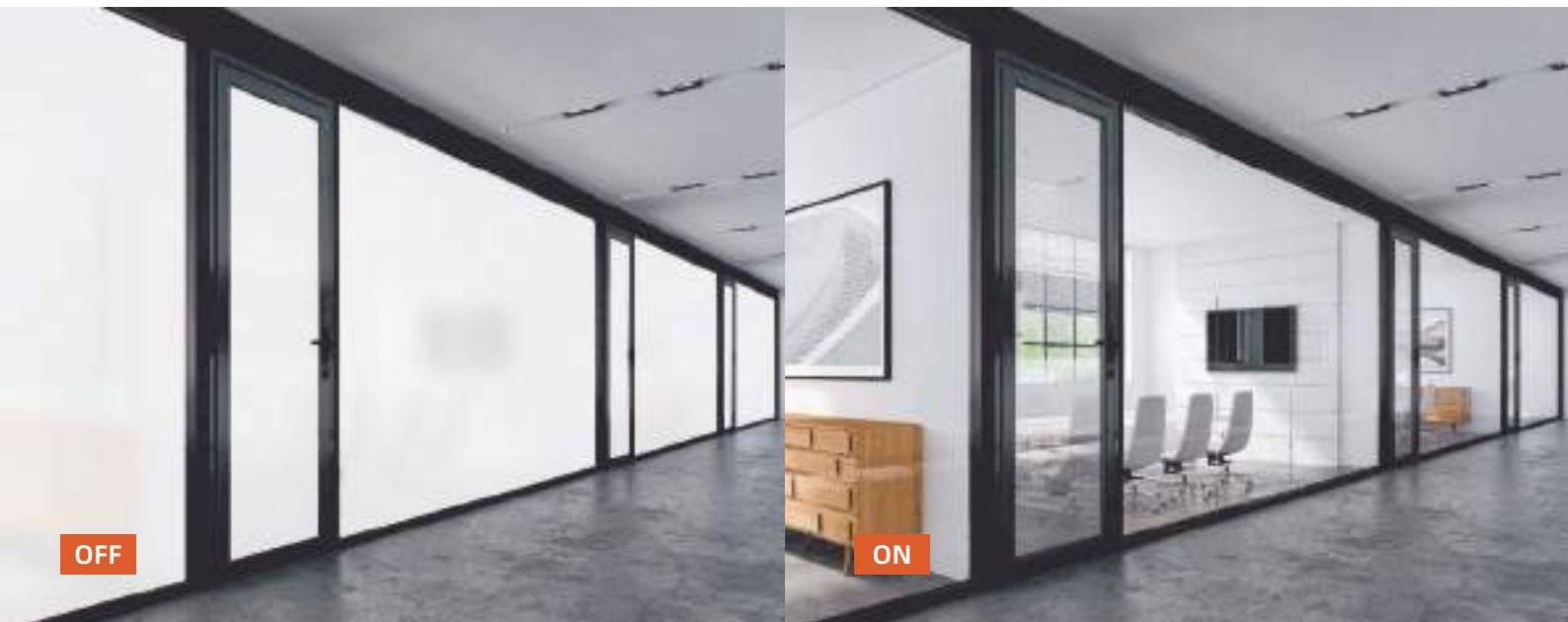
Items	ON/OFF		Test Methods/Standards
Operating voltage	ON	60V	Multimeter/ Voltage Regulator,WGW
Power consumption	ON	$\leq 5W/m^2$	Multi-parameter electric measuring instrument
Viewing angle	ON	$\geq 160^\circ$	Visual Inspection
Uv blocking rate	OFF	$\geq 99\%$	Optical transmittance tester
Infrared blocking rate	OFF	$\geq 60\%$	
Response time	OFF→ON	$\leq 30$ ms	Liquid crystal parameter integrated tester
	ON→OFF	$\leq 200$ ms	
Operating temperature	--	-30°C ~ 50°C	constant temperature and humidity testing machine
Life-span	--	100000 Hours	GB18910.5-2008
Switching times	--	$\geq 2$ million times	Self-made on/off tester

PDLC film is driven by AC power, colorless and transparent when power is added, and fogged and translucent when power is removed, and its photoelectric performance is shown in the table above.

## Product Transparency / Haze

FILMBASE 091

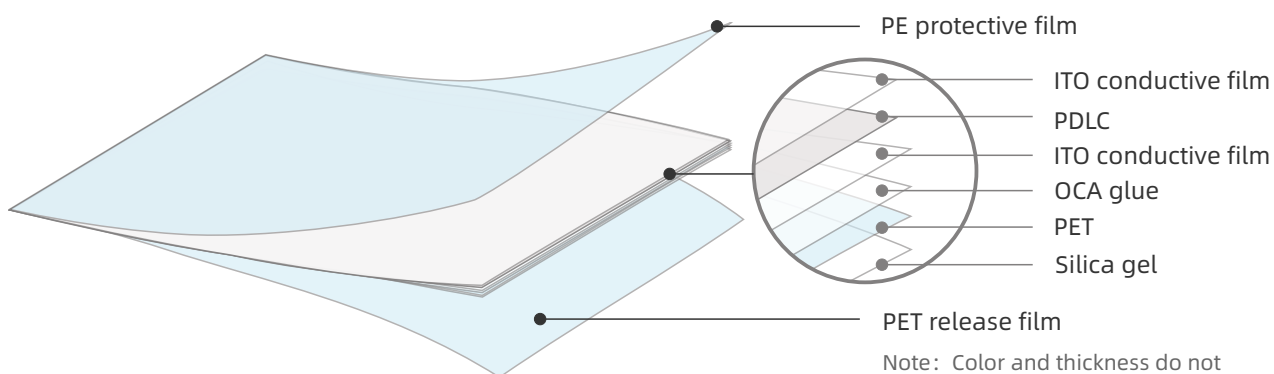
Items	ON/OFF	Full light tester			Parallel light tester	
		Haze	Full light transmittance	b value	45° light	Parallel light
Adhesive PDLC film	OFF	94.5	85.0	7.57	/	/
	ON	4.53	91.0	5.29	60.0	88.0
Laminated PDLC film	OFF	94.5	85.0	6.79	/	/
	ON	4.53	91.0	4.31	60.0	88.0



# FILMBASE 087

087 is Filmbase most hot sales item ,Super clear 87-89% Transmittance and nice 3-4% haze .

It is suitable for modern office partitions, space partitions, conference halls, museums, exhibition centers, star hotels, bars, shops, hospitals and other places that need to integrate the functions of transparency, privacy, partition and projection display.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.

## Size

FILMBASE 087

Items			
Adhesive PDLC film	Total Thickness		0.47mm
	Cut to Sheet	Width	100-1800(mm)
		Length	100-50000(mm)
	Roll	Width	1000,1200,1500,1800(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches
Laminated PDLC film	Total Thickness		0.38mm
	Cut to Sheet	Width	100-2100(mm)
		Length	100-50000(mm)
	Roll	Width	1000,1200,1400,1500,1800,2000,2100(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches

## Optical Parameter

FILMBASE 087

Items	ON/OFF		Test Methods/Standards
Operating voltage	ON	60V	Multimeter/ Voltage Regulator,WGW
Power consumption	ON	$\leq 5W/m^2$	Multi-parameter electric measuring instrument
Viewing angle	ON	$\geq 160^\circ$	Visual Inspection
Uv blocking rate	OFF	$\geq 99\%$	Optical transmittance tester
Infrared blocking rate	OFF	$\geq 60\%$	
Response time	OFF→ON	$\leq 30$ ms	Liquid crystal parameter integrated tester
	ON→OFF	$\leq 200$ ms	
Operating temperature	--	-30°C ~ 50°C	constant temperature and humidity testing machine
Life-span	--	100000 Hours	GB18910.5-2008
Switching times	--	$\geq 2$ million times	Self-made on/off tester

PDLC film is driven by AC power, colorless and transparent when power is added, and fogged and translucent when power is removed, and its photoelectric performance is shown in the table above.

## Product Transparency / Haze

FILMBASE 087

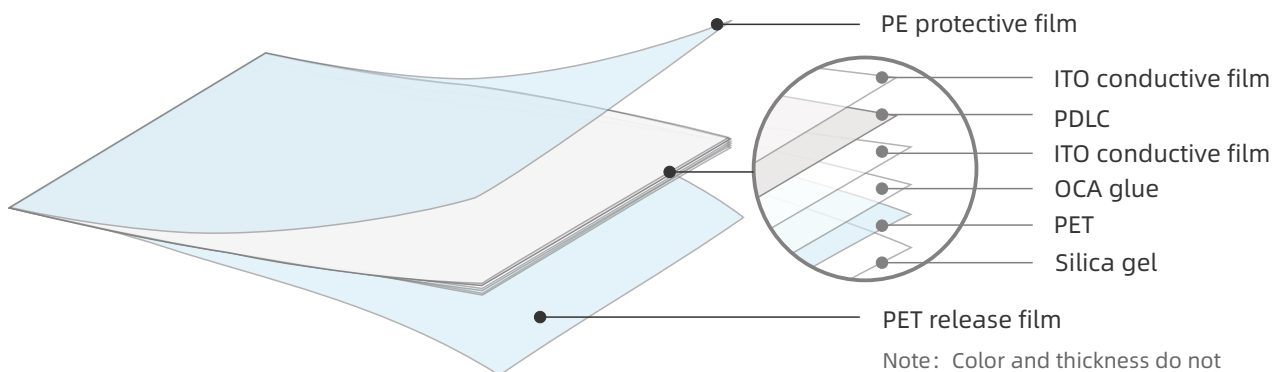
Items	ON/OFF	Full light tester			Parallel light tester	
		Haze	Full light transmittance	b value	45° light	Parallel light
Adhesive PDLC film	OFF	94.5	78.0	6.95	/	/
	ON	4.53	88.0	4.71	58.0	86.0
Laminated PDLC film	OFF	94.5	78.0	5.9	/	/
	ON	4.53	88.0	3.72	58.0	86.0



# FILMBASE 085

085 is Filmbase most cost effective item , Nice clear 84-86% Transmittance and nice 4-5% haze , which is very welcome by the projects which does not request super high transparency and low haze applications.

It is suitable for modern office partitions, space partitions, conference halls, museums, exhibition centers, star hotels, bars, shops, hospitals and other places that need to integrate the functions of transparency, privacy, partition and projection display.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.



## Size

FILMBASE 085

Items			
Adhesive PDLC film	Total Thickness		0.47mm
	Cut to Sheet	Width	100-1800(mm)
		Length	100-50000(mm)
	Roll	Width	1000,1200,1500,1800(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches
Laminated PDLC film	Total Thickness		0.38mm
	Cut to Sheet	Width	100-2100(mm)
		Length	100-50000(mm)
	Roll	Width	1000,1200,1500,1800,2000,2100(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches

## Optical Parameter

FILMBASE 085

Items	ON/OFF		Test Methods/Standards
Operating voltage	ON	60V	Multimeter/ Voltage Regulator,WGW
Power consumption	ON	$\leq 5W/m^2$	Multi-parameter electric measuring instrument
Viewing angle	ON	$\geq 160^\circ$	Visual Inspection
Uv blocking rate	OFF	$\geq 99\%$	Optical transmittance tester
Infrared blocking rate	OFF	$\geq 60\%$	
Response time	OFF→ON	$\leq 30$ ms	Liquid crystal parameter integrated tester
	ON→OFF	$\leq 200$ ms	
Operating temperature	--	-30°C ~ 50°C	constant temperature and humidity testing machine
Life-span	--	100000 Hours	GB18910.5-2008
Switching times	--	$\geq 2$ million times	Self-made on/off tester

PDLC film is driven by AC power, colorless and transparent when power is added, and fogged and translucent when power is removed, and its photoelectric performance is shown in the table above.

## Product Transparency / Haze

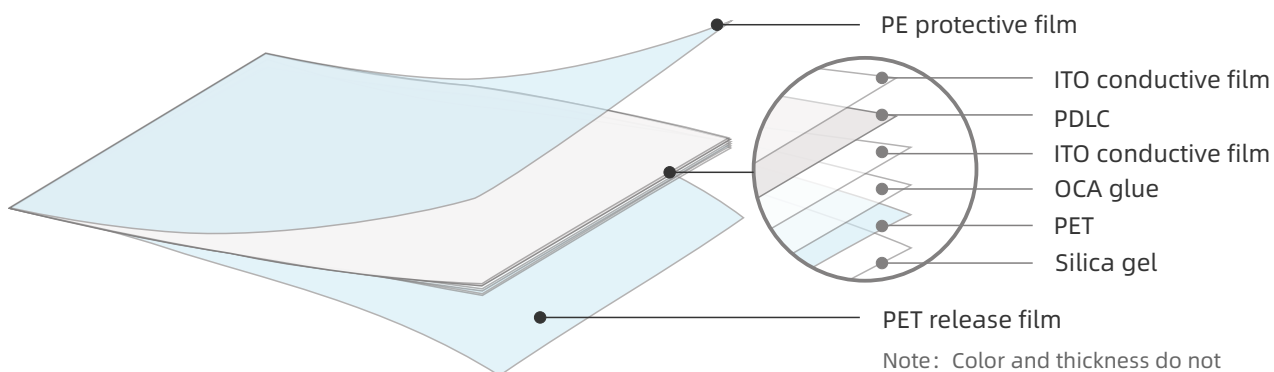
FILMBASE 085

Items	ON/OFF	Full light tester			Parallel light tester	
		Haze	Full light transmittance	b value	45° light	Parallel light
Adhesive PDLC film	OFF	94.5	78.0	6.62	/	/
	ON	4.53	84.0	4.56	58.0	82.0
Laminated PDLC film	OFF	94.5	78.0	5.64	/	/
	ON	4.53	84.0	3.55	58.0	81.0



# FILMBASE Warrior

Filmbase Warrior series PDLC film is designed for high temperature application, Such as large-scale architectural curtain walls, outdoor partitions, glass balconies, outdoor swimming pool fences etc.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.

## Size

FILMBASE Warrior

Items			
Adhesive PNLC film	Total Thickness		0.47mm
	Cut to Sheet	Width	100-1500(mm)
		Length	100-50000(mm)
	Roll	Width	1200,1500(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches

## Optical Parameter

FILMBASE Warrior

Items	ON/OFF		Test Methods/Standards
Operating voltage	ON	60V	Multimeter/ Voltage Regulator,WGW
Power consumption	ON	$\leq 5W/m^2$	Multi-parameter electric measuring instrument
Viewing angle	ON	$\geq 160^\circ$	Visual Inspection
Uv blocking rate	OFF	$\geq 99\%$	Optical transmittance tester
Infrared blocking rate	OFF	$\geq 60\%$	
Response time	OFF→ON	$\leq 30$ ms	Liquid crystal parameter integrated tester
	ON→OFF	$\leq 200$ ms	
Operating temperature	--	-30°C ~ 90°C	constant temperature and humidity testing machine
Life-span	--	100000 Hours	GB18910.5-2008
Switching times	--	$\geq 2$ million times	Self-made on/off tester

PDLC film is driven by AC power, colorless and transparent when power is added, and fogged and translucent when power is removed, and its photoelectric performance is shown in the table above.

## Product Transparency / Haze

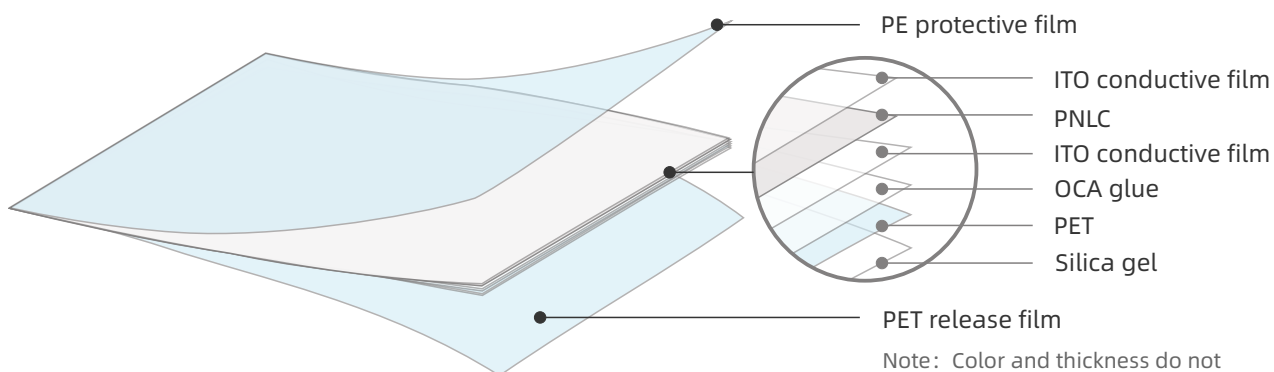
FILMBASE Warrior

Items	Full light tester				Parallel light tester	
	ON/OFF	Haze	Full light transmittance	b value	45° light	Parallel light
/	OFF	94.5	78.0	5.93	/	/
	ON	4.53	83.5	3.77	58.0	81.0



# FILMBASE Reverse

Filmbase Reverse film is a special transparent liquid crystal film, can be sandwiched in the glass or adhesive on the glass, become opaque when power on , can be widely used in space partition, electronic products, automotive fields ,can be sandwiched into the glass or Adhesive onto the exited glass.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.

## Size

FILMBASE Reverse

Items			
Adhesive PNLC film	Total Thickness		0.37mm
	Cut to Sheet	Width	100-1400(mm)
		Length	100-50000(mm)
	Roll	Width	1200,1400(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches
Laminated PNLC film	Total Thickness		0.28mm
	Cut to Sheet	Width	100-1400(mm)
		Length	100-50000(mm)
	Roll	Width	1200,1400(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches

## Optical Parameter

FILMBASE Reverse

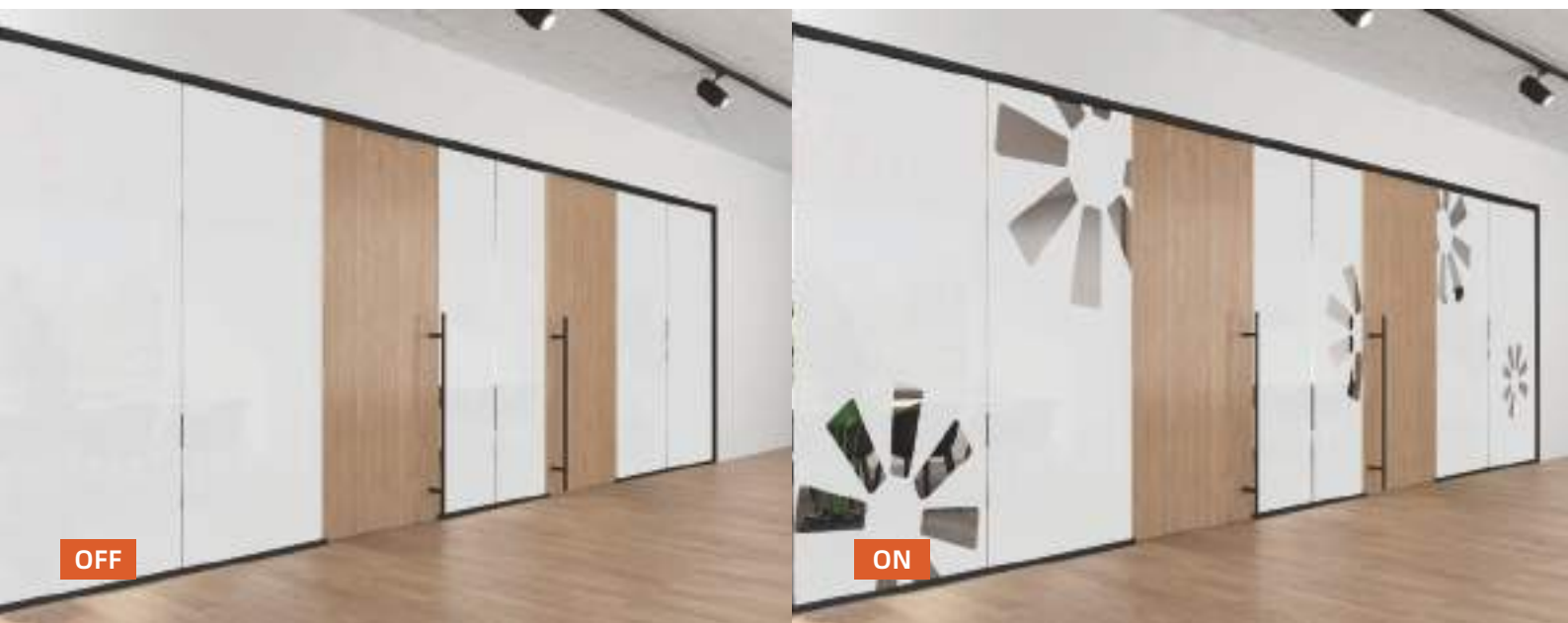
Items	ON/OFF		Test Methods/Standards
Operating voltage	ON	60V	Multimeter/ Voltage Regulator,WGW
Power consumption	ON	avg 4-6/m <sup>2</sup>	Multi-parameter electric measuring instrument
Viewing angle	OFF	≥ 160°+1	Visual Inspection
Uv blocking rate	ON	≥ 85%	Optical transmittance tester
Infrared blocking rate	ON	≥ 60%	
Response time	OFF→ON	≤ 200 ms	Liquid crystal parameter integrated tester
	ON→OFF	≤ 220 ms	
Operating temperature	--	-30°C ~ 50°C	constant temperature and humidity testing machine
Life-span	--	100000 Hours	GB18910.5-2008
Switching times	--	≥2 million times	Self-made on/off tester

PNLC PDLC film is driven by AC power, fogged and translucent when power is added, colorless and transparent when power is removed, and its photoelectric performance is shown in the table above.

## Product Transparency / Haze

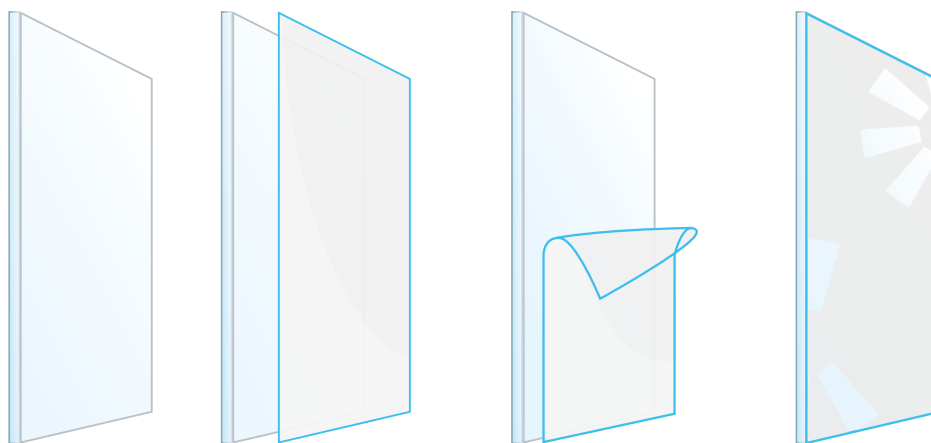
FILMBASE Reverse

Items	ON/OFF	Full light tester			Parallel light tester	
		Haze	Full light transmittance	b value	45° light	Parallel light
Adhesive PNLC film	OFF	7	90.0	3.85	80.0	85.0
	ON	92	88.0	4.42	/	19.0
Laminated PNLC film	OFF	7	90.0	1.71	80.0	85.0
	ON	92	88.0	1.84	/	19.0



# FILMBASE Limited edition

Limited edition is Filmbase luxury customized series, which allow etching content inside the smart film , such as company logo, slog,products, art paintings, pictures etc. , All contents can be switchable automatically. Can be sandwiched into the glass or Adhesive onto the exited glass to click to privacy.



## Size

FILMBASE Limited edition

Items			
Adhesive PDLC film	Total Thickness		0.47mm
	Cut to Sheet	Width	less than1500
		Length	less than1500
Laminated PDLC film	Total Thickness		0.38mm
	Cut to Sheet	Width	less than1500
		Length	less than1500

## Optical Parameter

FILMBASE Limited edition

Items	ON/OFF		Test Methods/Standards
Operating voltage	ON	60V	Multimeter/ Voltage Regulator,WGW
Power consumption	ON	$\leq 5W/m^2$	Multi-parameter electric measuring instrument
Viewing angle	ON	$\geq 160^\circ$	Visual Inspection
Uv blocking rate	OFF	$\geq 99\%$	Optical transmittance tester
Infrared blocking rate	OFF	$\geq 60\%$	
Response time	OFF→ON	$\leq 30$ ms	Liquid crystal parameter integrated tester
	ON→OFF	$\leq 200$ ms	
Operating temperature	--	-30°C ~ 50°C	constant temperature and humidity testing machine
Life-span	--	100000 Hours	GB18910.5-2008
Switching times	--	$\geq 2$ million times	Self-made on/off tester

## Product Transparency / Haze

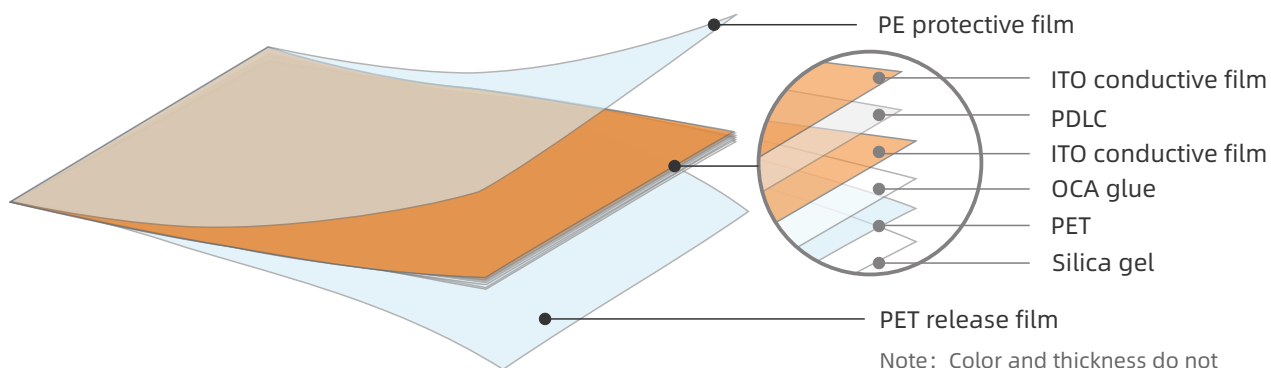
FILMBASE Limited edition

Items	ON/OFF	Full light tester			Parallel light tester	
		Haze	Full light transmittance	b value	45° light	Parallel light
Adhesive PDLC film	OFF	94.5	78.0	6.95	/	/
	ON	4.53	88.0	4.71	58.0	86.0
Laminated PDLC film	OFF	94.5	78.0	5.9	/	/
	ON	4.53	88.0	3.72	58.0	86.0



# FILMBASE Colorful

Filmbase Colorful PDLC film is designed for the application where need different colors such as gray, black, red, green, blue or other colors. Warmly welcomed by art centers, kindergartens, supermarkets, theme restaurants, places that need diversified design.can be sandwiched into the glass or Adhesive onto the exited glass to click to privacy.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.



## Size

## FILMBASE Colorful

Items			
Gray adhesive PDLC film	Total Thickness		0.47mm
	Cut to Sheet	Width	100-1800(mm)
		Length	100-50000(mm)
	Roll	Width	1200,1500,1800(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches
Gray laminated PDLC film	Total Thickness		0.38mm
	Cut to Sheet	Width	100-1800(mm)
		Length	100-50000(mm)
	Roll	Width	1200,1500,1800(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches
Other colors adhesive PDLC film (black,blue,green,orange,red)	Total Thickness		0.54mm
	Cut to Sheet	Width	100-1500(mm)
		Length	100-50000(mm)
	Roll	Width	1500(mm)
		Length	30meters /50meters
	Roll tube	Inner Diameter	6 inches

## Optical Parameter

## FILMBASE Colorful

Items	ON/OFF		Test Methods/Standards
Operating voltage	ON	60V	Multimeter/ Voltage Regulator,WGW
Power consumption	ON	$\leq 5W/m^2$	Multi-parameter electric measuring instrument
Viewing angle	ON	$\geq 160^\circ$	Visual Inspection
Uv blocking rate	OFF	$\geq 99\%$	Optical transmittance tester
Infrared blocking rate	OFF	$\geq 60\%$	
Response time	OFF→ON	$\leq 30\text{ ms}$	Liquid crystal parameter integrated tester
	ON→OFF	$\leq 200\text{ ms}$	
Operating temperature	--	-30°C ~ 50°C	constant temperature and humidity testing machine
Life-span	--	100000 Hours	GB18910.5-2008
Switching times	--	$\geq 2$ million times	Self-made on/off tester

# SWITCHABLE GLASS

Widely used in offices, hotels, banks, Hospitals, stores, clubs, villas and other places.



# About Switchable Glass

Switchable glass with Filmbase's premium Polymer Dispersed Liquid Crystal (PDLC) technology allows glass to turn on, off, or anywhere in between in milliseconds for diverse light control applications.

Switchable glass in the absence of an electric field, the electronically controlled PDLC film is in an opaque state. When an alternating current is applied, at which point the switchable glass changes from an opaque state (OFF) to a transparent state (ON).



## 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.



## Anti-noise

Compared with ordinary glass, the anti-noise ability of glass using Filmbase PDLC film is increased by 20%.



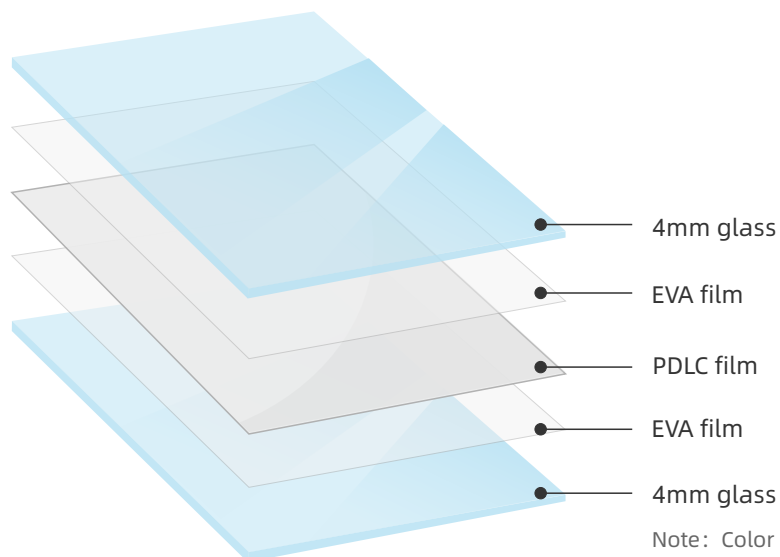
## Various control methods

In order to meet your various needs, you can choose your preferred control method: remote control, wired control, infrared induction, voice control, mobile application, etc. In addition, an FM transformer can be selected to gradually change the film.



# FILMBASE 0404

Filmbase 0404 is switchable smart glass with PDLC film sandwiched in two 4mm glass, when power on it is transparency, when power off it becomes opaque, with glass and smart curtain in one technology, plus support rear projection to display videos, pictures and letters. Which can be widely used in space partition or facade where more open view, privacy and display functions needed. 85%, 88% and 91% transmittance, colorful available.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.



ON

## Product Parameters

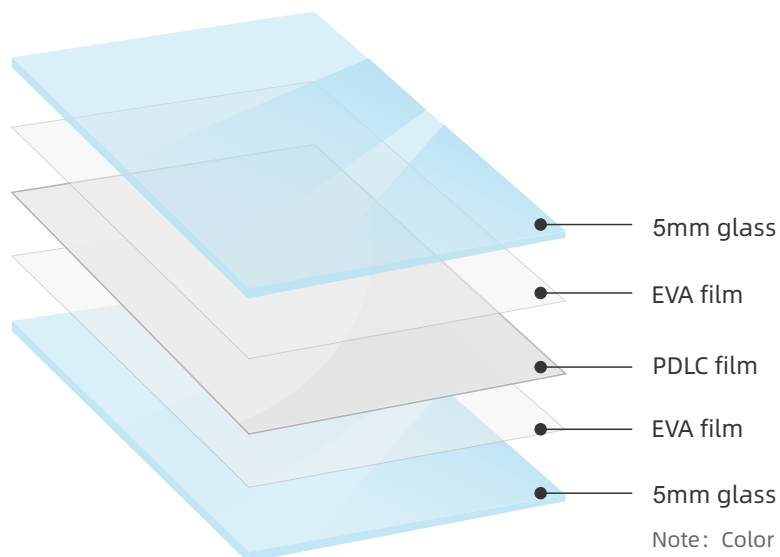
FILMBASE 0404

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze (on)	6%	4%	4%
Haze (off)	94%	94%	94%
Light transmittance (on)	79%	80%	83%
Light transmittance (off)	67%	68%	70%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>
Compatible with	Eva	Eva	Eva
Biggest size	1800×2400mm	1800×2400mm	1800×2400mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		



# FILMBASE 0505

Filmbase 0505 is switchable smart glass with PDLC film sandwiched in two 5mm glass, when power on it is transparency, when power off it becomes opaque, with glass and smart curtain in one technology, plus support rear projection to display videos, pictures and letters. Which can be widely used in space partition or facade where more open view, privacy and display functions needed. 85%, 88% and 91% transmittance, colorful available.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.



## Product Parameters

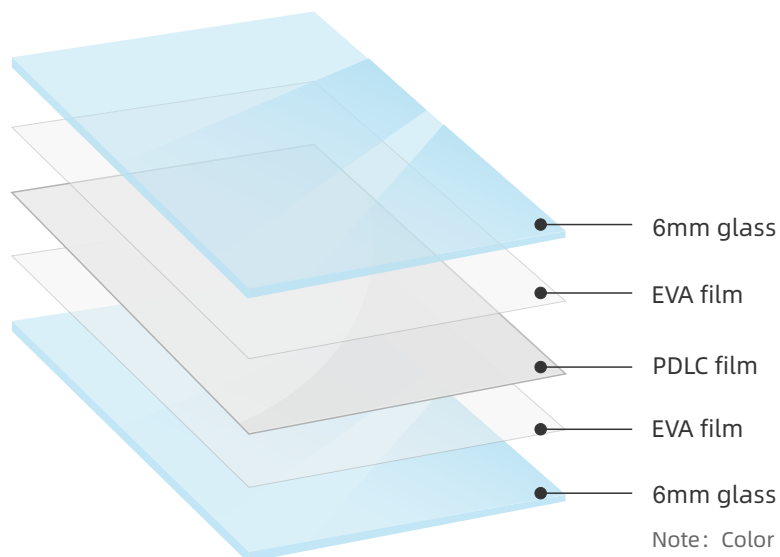
FILMBASE 0505

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze (on)	6%	4%	4%
Haze (off)	94%	94%	94%
Light transmittance (on)	80%	81%	84%
Light transmittance (off)	67%	68%	72%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>
Compatible with	Eva	Eva	Eva
Biggest size	2000×2800mm	2000×2800mm	2000×2800mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		



# FILMBASE 0606

Filmbase 0606 is switchable smart glass with PDLC film sandwiched in two 6mm glass, when power on it is transparency, when power off it becomes opaque, with glass and smart curtain in one technology, plus support rear projection to display videos, pictures and letters. Which can be widely used in space partition or facade where more open view, privacy and display functions needed. 85%, 88% and 91% transmittance, colorful available.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.





## Product Parameters

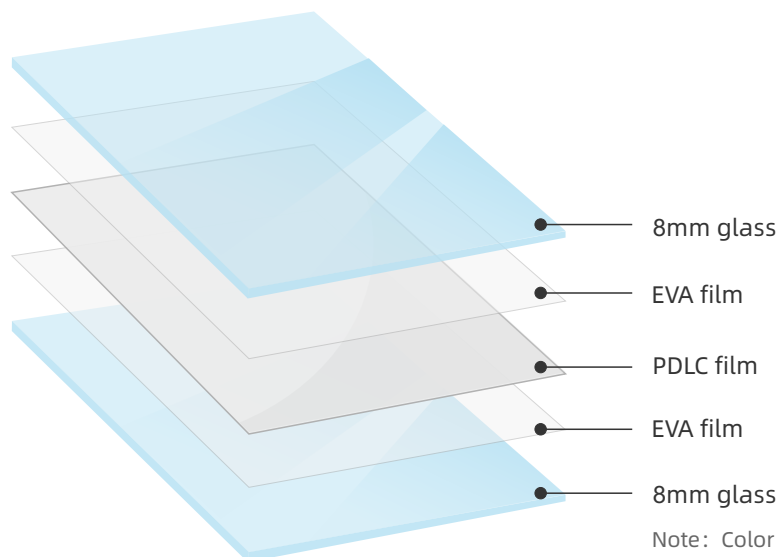
FILMBASE 0606

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze (on)	6%	4%	4%
Haze (off)	94%	94%	94%
Light transmittance (on)	79%	80%	83%
Light transmittance (off)	67%	68%	70%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>
Compatible with	Eva	Eva	Eva
Biggest size	2000×3000mm	2000×3000mm	2000×3000mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		



# FILMBASE 0808

Filmbase 0808 is switchable smart glass with PDLC film sandwiched in two 8mm glass, when power on it is transparency, when power off it becomes opaque, with glass and smart curtain in one technology, plus support rear projection to display videos, pictures and letters. Which can be widely used in space partition or facade where more open view, privacy and display functions needed. 85%, 88% and 91% transmittance, colorful available.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.



## Product Parameters

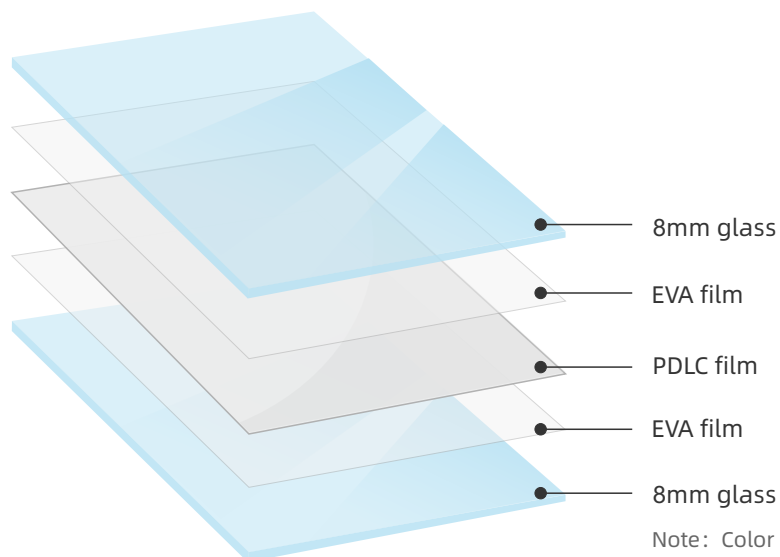
FILMBASE 0808

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze (on)	6%	4%	4%
Haze (off)	94%	94%	94%
Light transmittance (on)	78%	79%	82%
Light transmittance (off)	64%	65%	68%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>
Compatible with	Eva	Eva	Eva
Biggest size	2000×4000mm	2000×4000mm	2000×4000mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		



# FILMBASE 1010

Filmbase 1010 is switchable smart glass with PDLC film sandwiched in two 10mm glass, when power on it is transparency, when power off it becomes opaque, with glass and smart curtain in one technology, plus support rear projection to display videos, pictures and letters. Which can be widely used in space partition or facade where more open view, privacy and display functions needed. 85%, 88% and 91% transmittance, colorful available.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.



## Product Parameters

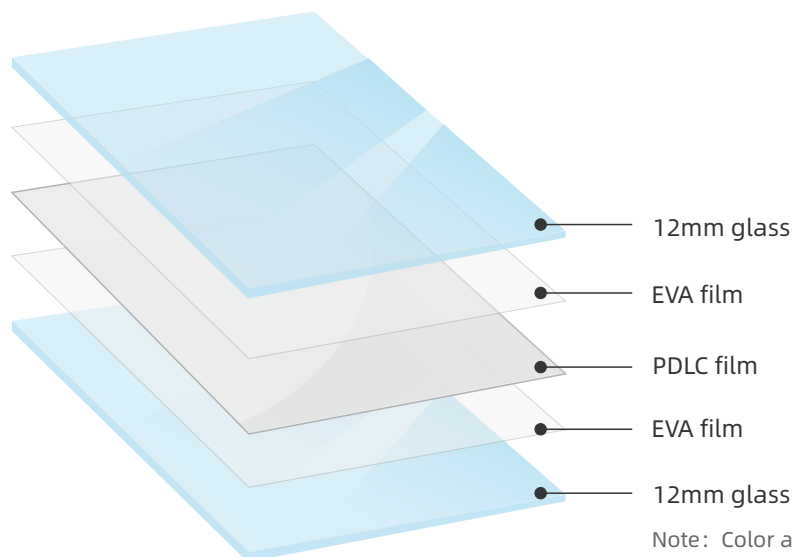
## FILMBASE 1010

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze (on)	6%	4%	4%
Haze (off)	94%	94%	94%
Light transmittance (on)	69%	70%	73%
Light transmittance (off)	55%	56%	59%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>
Compatible with	Eva	Eva	Eva
Biggest size	2000×5000mm	2000×5000mm	2000×5000mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		



# FILMBASE 1212

Filmbase 1212 is switchable smart glass with PDLC film sandwiched in two 12mm glass, when power on it is transparency, when power off it becomes opaque, with glass and smart curtain in one technology, plus support rear projection to display videos, pictures and letters. Which can be widely used in space partition or facade where more open view, privacy and display functions needed. 85%, 88% and 91% transmittance, colorful available.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.



## Product Parameters

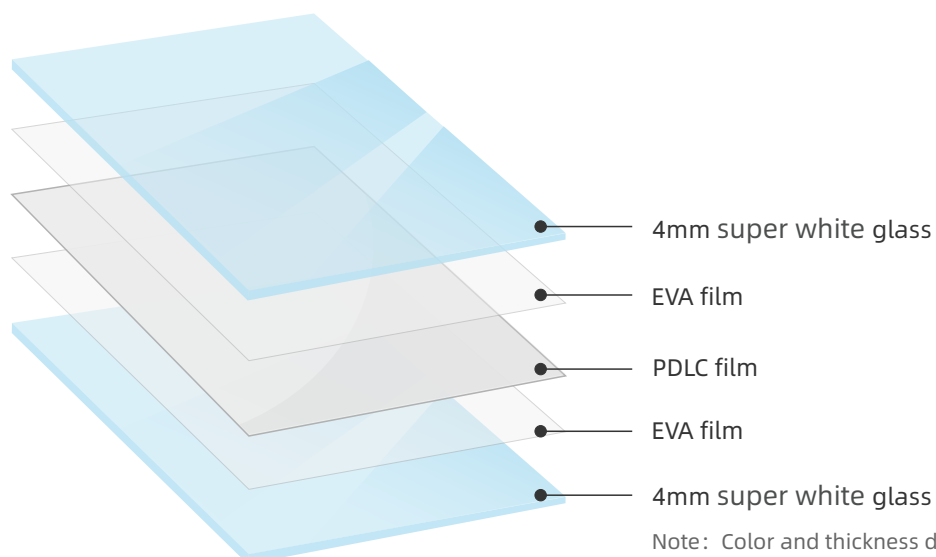
## FILMBASE 1212

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze (on)	6%	4%	4%
Haze (off)	94%	94%	94%
Light transmittance (on)	65%	66%	67%
Light transmittance (off)	49%	50%	51%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>
Compatible with	Eva	Eva	Eva
Biggest size	2000×6000mm	2000×6000mm	2000×6000mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		



# FILMBASE 0404 Plus

Filmbase 0404 plus is switchable smart glass with PDLC film sandwiched in two super clear low-E 4mm glass , when power on it is transparency , when power off it becomes opaque ,with Glass and smart curtain in one technology ,plus support rear projection to display Videos ,pictures and letters. which can be widely used in space partition or facade where more open view ,privacy and display functions needed. 85%,88% and 91% transmittance ,colorful available.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.





## Product Parameters

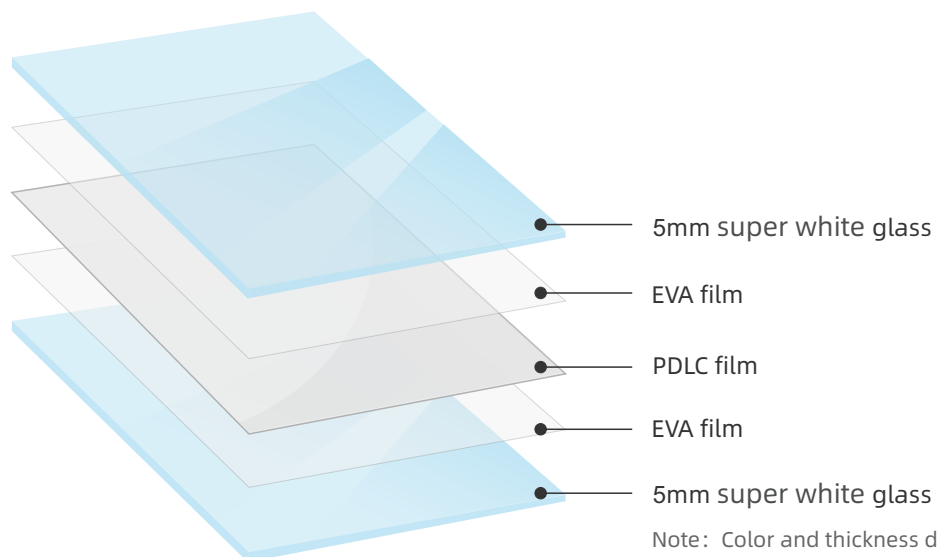
## FILMBASE 0404 Plus

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze (on)	6%	4%	4%
Haze (off)	94%	94%	94%
Light transmittance (on)	82%	83%	87%
Light transmittance (off)	70%	71%	75%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>
Compatible with	Eva	Eva	Eva
Biggest size	1800×2400mm	1800×2400mm	1800×2400mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		



# FILMBASE 0505 Plus

Filmbase 0505 plus is switchable smart glass with PDLC film sandwiched in two super clear low-E 5mm glass , when power on it is transparency , when power off it becomes opaque ,with Glass and smart curtain in one technology ,plus support rear projection to display Videos ,pictures and letters. which can be widely used in space partition or facade where more open view ,privacy and display functions needed. 85%,88% and 91% transmittance ,colorful available.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.



ON

## Product Parameters

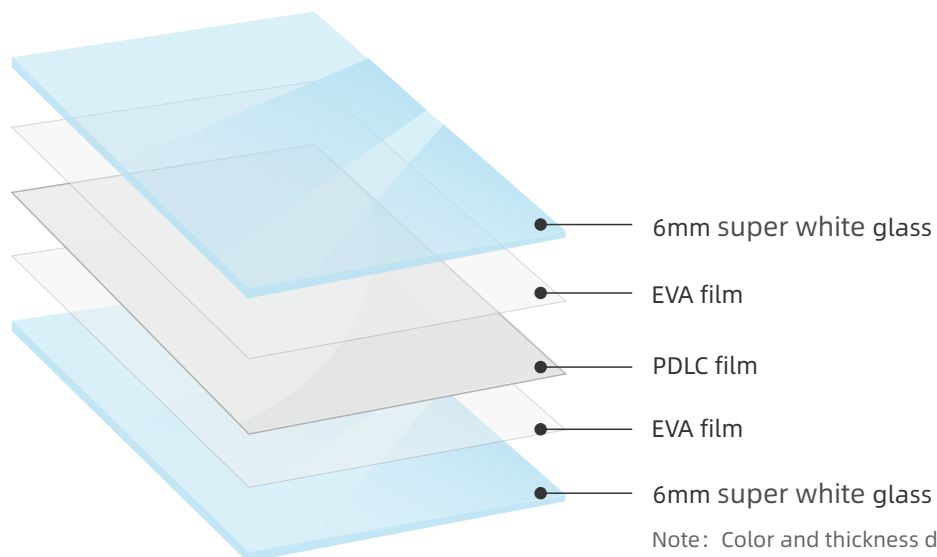
## FILMBASE 0505 Plus

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze (on)	6%	4%	4%
Haze (off)	94%	94%	94%
Light transmittance (on)	81%	82%	86%
Light transmittance (off)	69%	70%	74%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>
Compatible with	Eva	Eva	Eva
Biggest size	2000×2800mm	2000×2800mm	2000×2800mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		



# FILMBASE 0606 Plus

Filmbase 0606 plus is switchable smart glass with PDLC film sandwiched in two super clear low-E 6mm glass , when power on it is transparency , when power off it becomes opaque ,with Glass and smart curtain in one technology ,plus support rear projection to display Videos ,pictures and letters. which can be widely used in space partition or facade where more open view ,privacy and display functions needed. 85%,88% and 91% transmittance ,colorful available.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.



## Product Parameters

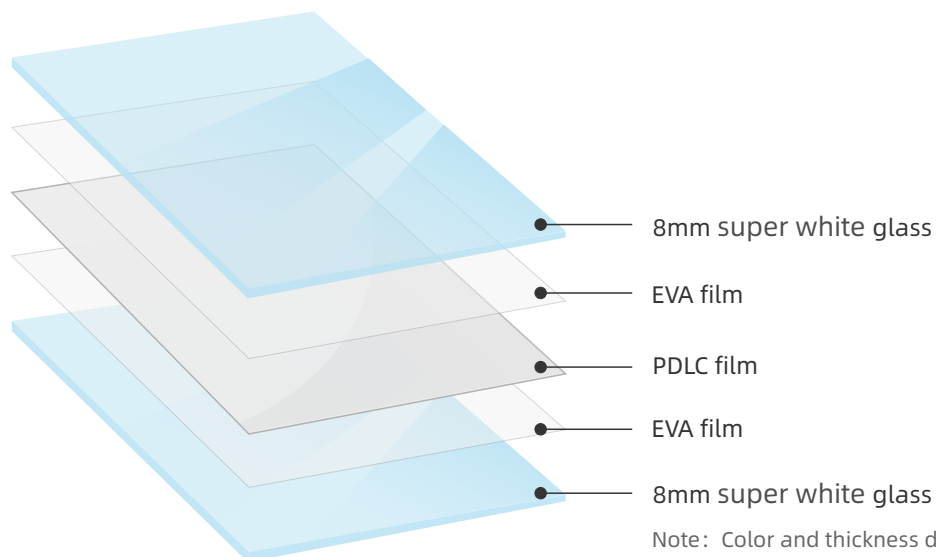
## FILMBASE 0606 Plus

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze (on)	6%	4%	4%
Haze (off)	94%	94%	94%
Light transmittance (on)	81%	82%	86%
Light transmittance (off)	68%	69%	72%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>
Compatible with	Eva	Eva	Eva
Biggest size	2000×3000mm	2000×3000mm	2000×3000mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		



# FILMBASE 0808 Plus

Filmbase 0808 plus is switchable smart glass with PDLC film sandwiched in two super clear low-E 8mm glass , when power on it is transparency , when power off it becomes opaque ,with Glass and smart curtain in one technology ,plus support rear projection to display Videos ,pictures and letters. which can be widely used in space partition or facade where more open view ,privacy and display functions needed. 85%,88% and 91% transmittance ,colorful available.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.



## Product Parameters

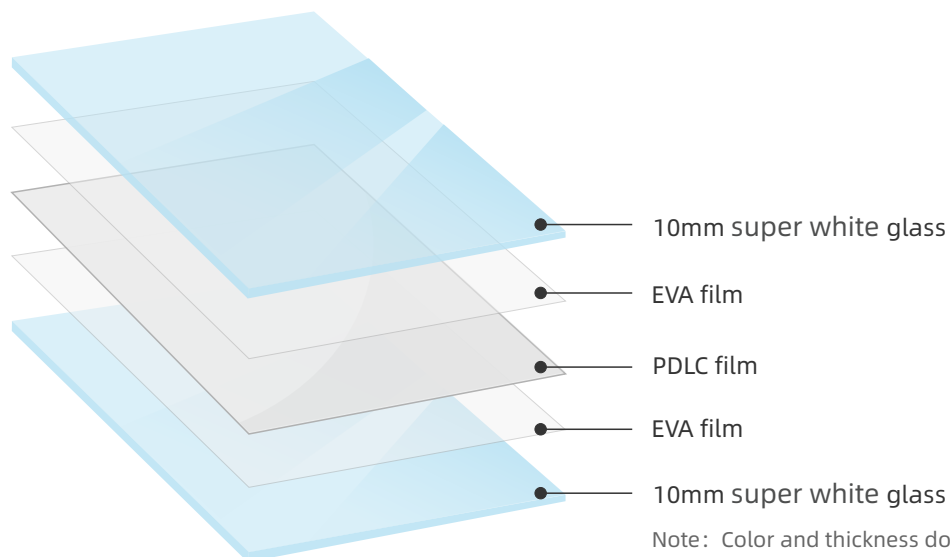
## FILMBASE 0808 Plus

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze (on)	6%	4%	4%
Haze (off)	94%	94%	94%
Light transmittance (on)	81%	82%	84%
Light transmittance (off)	67%	68%	71%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>
Compatible with	Eva	Eva	Eva
Biggest size	2000×4000mm	2000×4000mm	2000×4000mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		



# FILMBASE 1010 Plus

Filmbase 1010 plus is switchable smart glass with PDLC film sandwiched in two super clear low-E 10mm glass , when power on it is transparency , when power off it becomes opaque ,with Glass and smart curtain in one technology ,plus support rear projection to display Videos ,pictures and letters. which can be widely used in space partition or facade where more open view ,privacy and display functions needed. 85%,88% and 91% transmittance ,colorful available.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.





## Product Parameters

## FILMBASE 1010 Plus

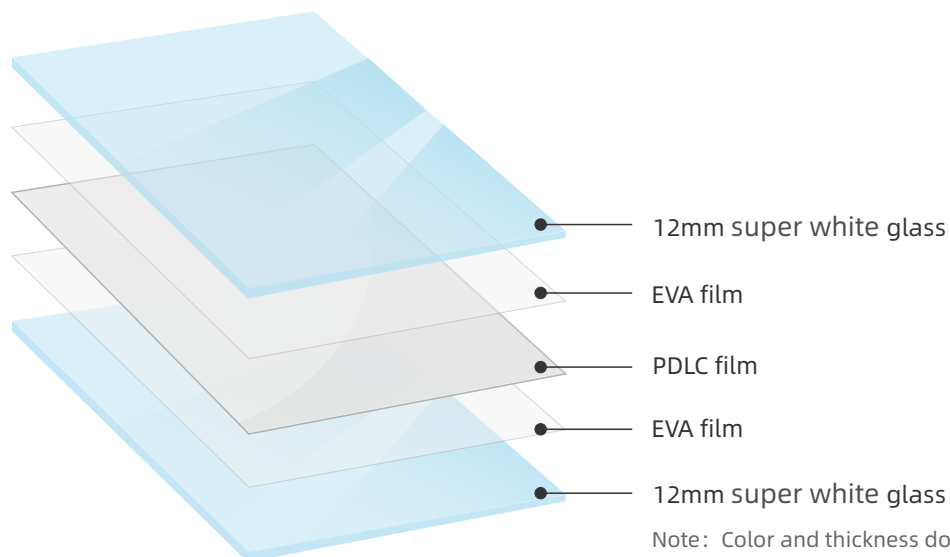
Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze (on)	6%	4%	4%
Haze (off)	94%	94%	94%
Light transmittance (on)	80%	81%	85%
Light transmittance (off)	64%	65%	67%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>
Compatible with	Eva	Eva	Eva
Biggest size	2000×5000mm	2000×5000mm	2000×5000mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		



OFF

# FILMBASE 1212 Plus

Filmbase 1212 plus is switchable smart glass with PDLC film sandwiched in two super clear low-E 12mm glass , when power on it is transparency , when power off it becomes opaque ,with Glass and smart curtain in one technology ,plus support rear projection to display Videos ,pictures and letters. which can be widely used in space partition or facade where more open view ,privacy and display functions needed. 85,88% and 91% transmittance ,colorful available.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.



ON

## Product Parameters

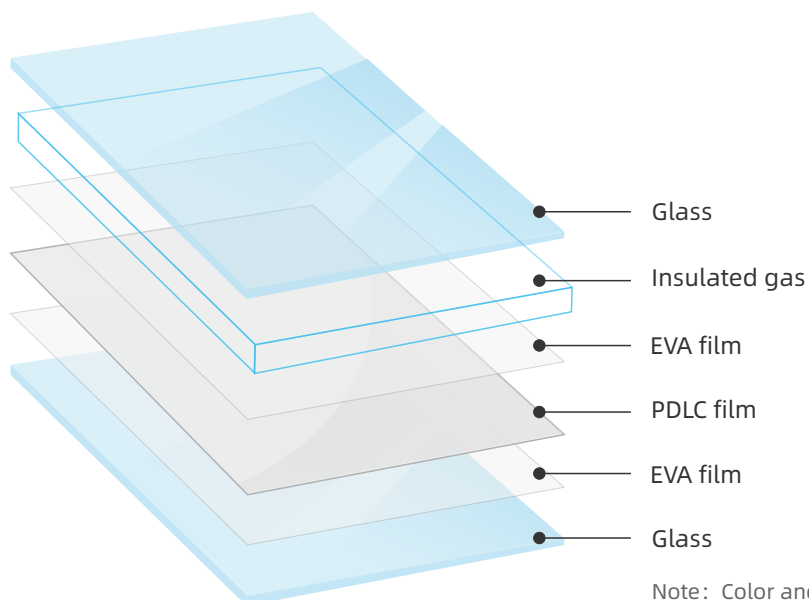
## FILMBASE 1212 Plus

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze (on)	6%	4%	4%
Haze (off)	94%	94%	94%
Light transmittance (on)	80%	81%	84%
Light transmittance (off)	61%	62%	65%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>
Compatible with	Eva	Eva	Eva
Biggest size	2000×6000mm	2000×4000mm	2000×6000mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		



# FILMBASE Smart facade glass

Switchable glass is a new type of laminated structural glass, combining PDLC film between two layers of glass at high temperature and high pressure after the overall formation of bonding. With a controller, it can instantly switch between opaque and transparent.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.



## Product Parameters

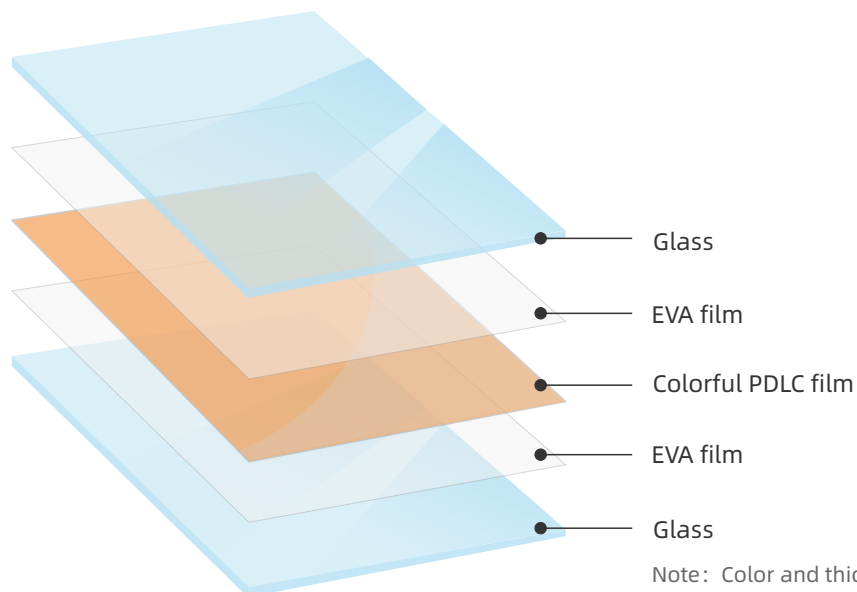
## FILMBASE Smart facade glass

Items	085 PDLC film	087 PDLC film	091 PDLC film
Film color	White	White	White
Haze (on)	6%	4%	44%
Haze (off)	94%	94%	94%
Light transmittance (on)	72%	75%	77%
Light transmittance (off)	60%	63%	65%
Uv block	>99%	>99%	>99%
Ir block	>86%	>86%	>86%
Power consumption	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>
Compatible with	Eva	Eva	Eva
Biggest size	1800×3600mm	1800×3600mm	1800×3600mm
Input voltage	100-120v 60Hz /220-240v 50hz		
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other		



# FILMBASE Art glass

Switchable glass is a new type of laminated structural glass, combining color PDLC film between two layers of glass at high temperature and high pressure after the overall formation of bonding. With a controller, it can instantly switch between opaque and transparent.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.



## Product Parameters

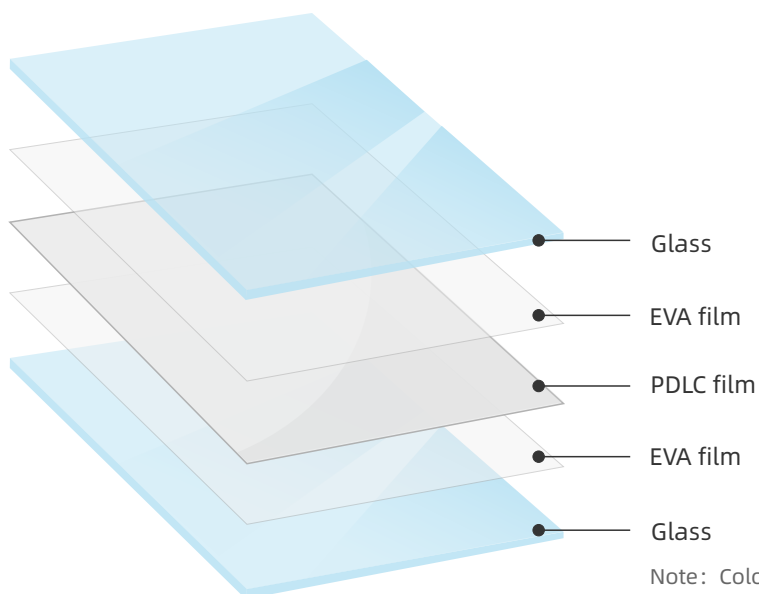
## FILMBASE Art glass

Film color	Gray	Black	Blue	Green	Orange	Red
Uv block	>99%	>99%	>99%	>99%	>99%	>99%
Ir block	>86%	>86%	>86%	>86%	>86%	>86%
Power consumption	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>	5w/m <sup>2</sup>
Compatible with	Eva	Eva	Eva	Eva	Eva	Eva
Input voltage	100-120v 60Hz / 220-240v 50hz					
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other					



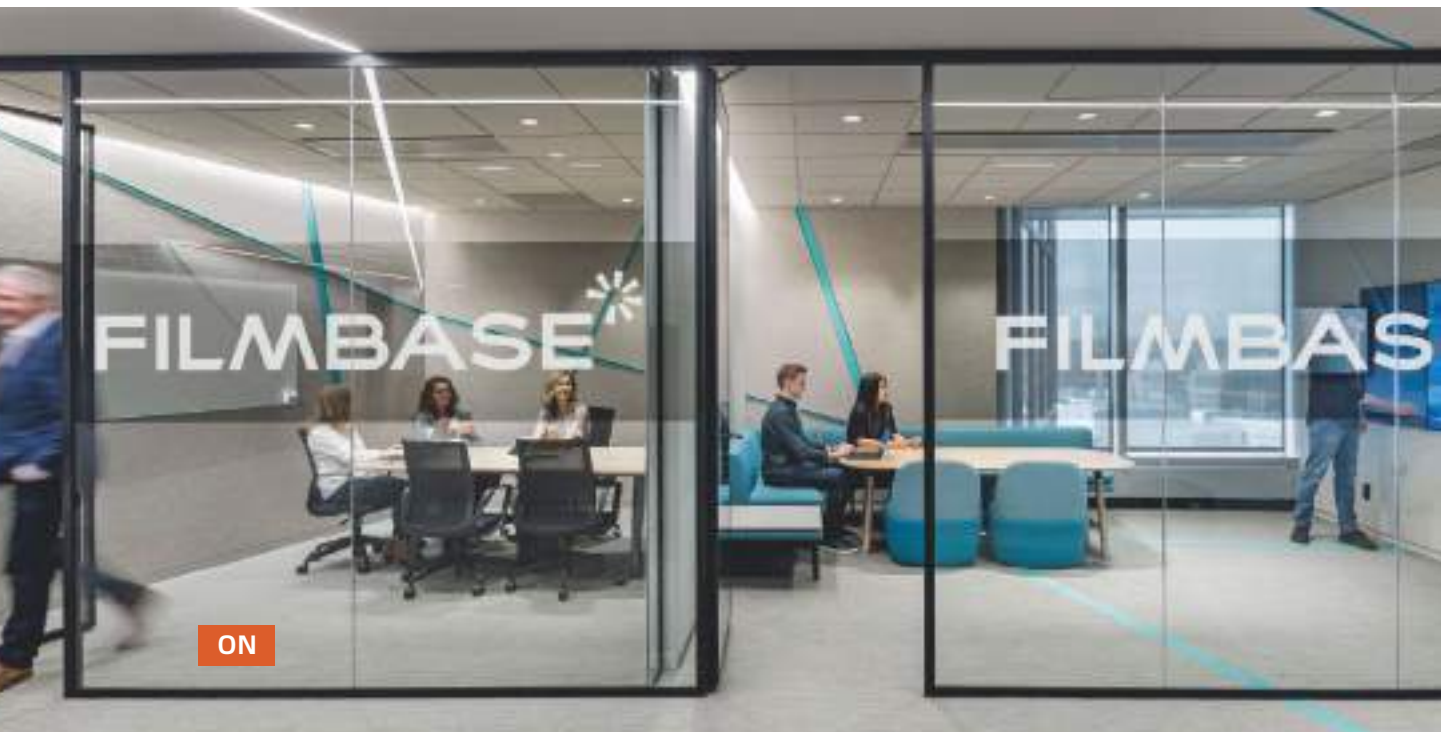
# FILMBASE Limited edition glass

Switchable glass is a new type of laminated structural glass, combining PDLC film between two layers of glass at high temperature and high pressure after the overall formation of bonding. With a controller, it can instantly switch between opaque and transparent.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.





## Product Parameters

## FILMBASE Limited edition glass

Items	087 PDLC film
Film color	White
Uv block	>99%
Ir block	>86%
Power consumption	5w/m <sup>2</sup>
Compatible with	Eva
Input voltage	100-120v 60Hz / 220-240v 50hz
Glass types	Flat,Curved,Tempered,Ultra Clear,Low-E,Other

# MEDIA GLASS

Widely used in glass curtain walls, brand chain stores, commercial centers, exhibition displays, windows, space decoration and other occasions.



# About Media Glass

Filmbase Media glass is a cutting-edge technological glass that combines precision manufacturing, materials science, Heat dissipation tech, system integrated chip design, control systems, cloud services and other multidisciplinary technologies. poised to transform various industries and sectors with its innovative features and adaptability. It has a broad range of target markets that include media, urban lighting, new building materials, exhibition shows etc.

Media glass revolutionary technology is not only a breakthrough in display technology but also a disruptive building material that is expected to pave the way for new market applications. Its unique form and versatility offer endless possibilities for multiple brand-new market applications.



Support customization



160° view angle



Now and future latest facade



HD +Up to 85% transparency



Support play 3D videos, Pictures, letter



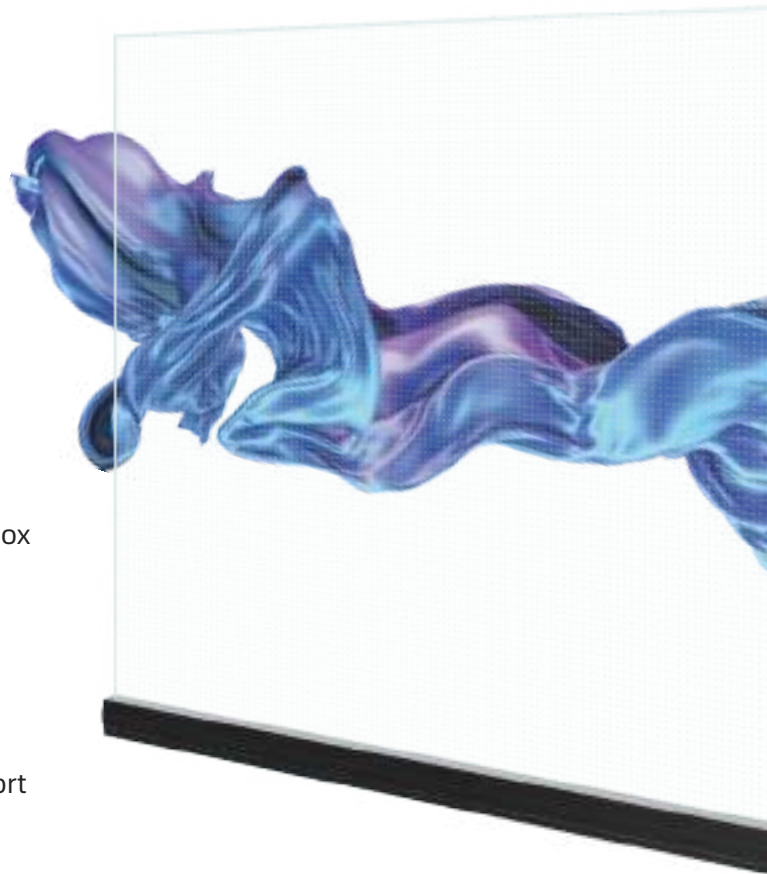
See through display, Glass+ display+control box all in one



Easy for installation, Male+Female connect, plug and Play

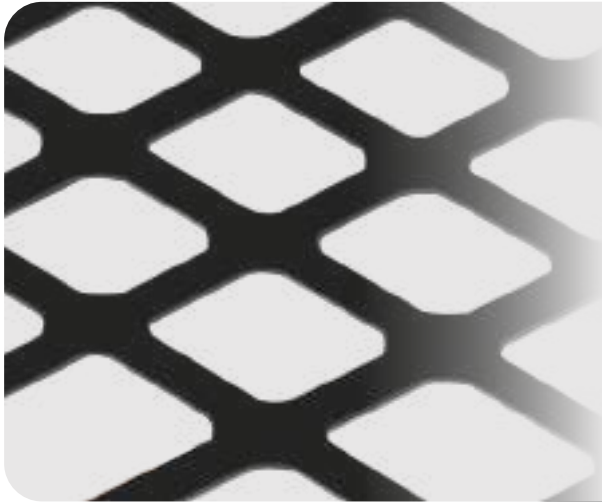


Easy for operation, Intelligent control support APP, Computer, USB



# LED lamp bead

Display chip, Control IC, Cooling system all in one with HD, lower carbon, longer life

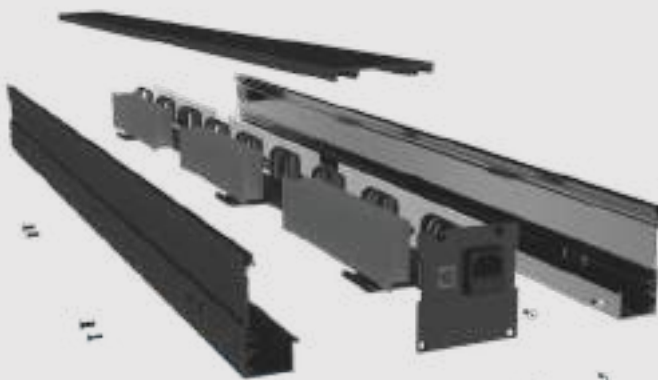
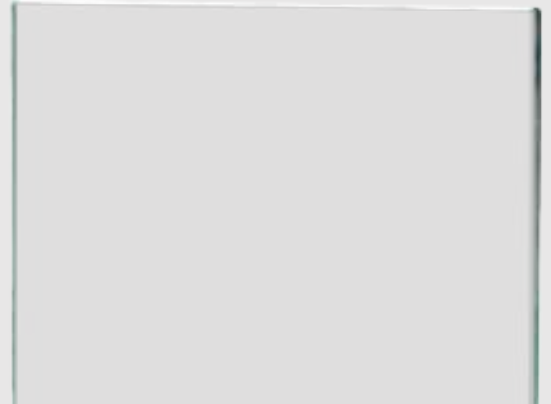


# Display laminates

See through multi layer Integrated circuit board design makes more clear more transparency and less heat

# Glass

Adapted electronic grade glass which customized for display , can choose partition glass, curtain wall insulating glass,



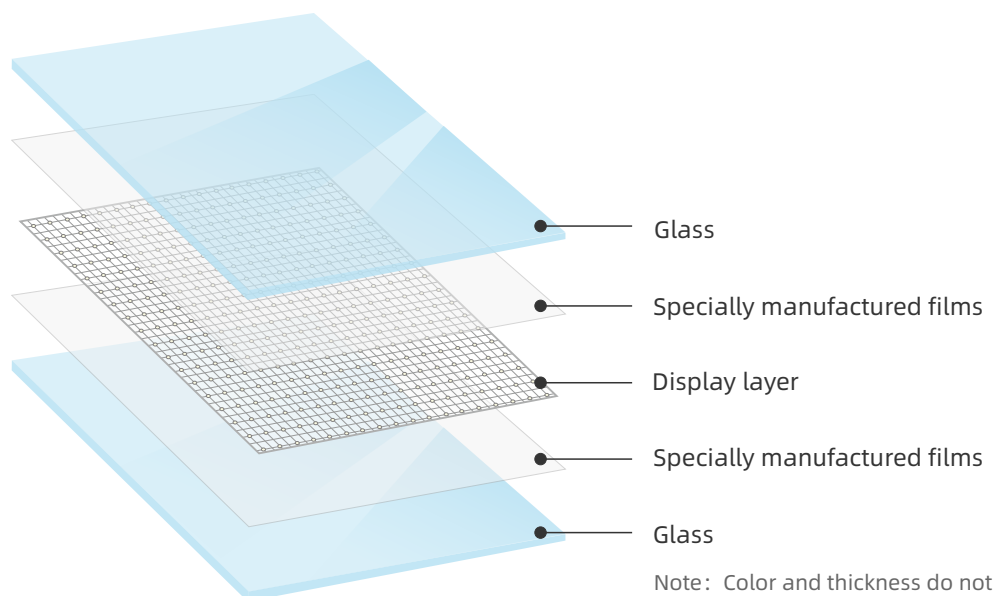
# Control system

Implanting the display chip and control software into Facade glass allows the building itself to become a media glass, with disseminating information, creating building value, improving recognition and enhancing influence.



# Skyscraper media glass

Filmbase skyscraper media glass is a revolutionary innovation glass, which combines both glass and display in one. See-through technology allows people to see outside while playing 3D video. It makes the building become the media to convey information, create value, increase recognition and enhance influence while saving energy without blocking view and light.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.

## Product Model

## FILMBASE Skyscraper media glass

Products	Skyscraper 01	Skyscraper 02	Skyscraper 03
Pitch	P8*8	P10*10	P20*20
Screen brightness (nits)	0~5000	0~5000	0~3000
Visual transparency	≥95%	≥95%	≥98%
Pixel pitch	8.32×8.32mm	10×10mm	20×20mm
Module	166×498mm	200×500mm	200×500mm
Pixel density	14400	10000	2500
Best view distance	≥8m	≥10m	≥20m
Viewing angle	≥160°	≥160°	≥160°
Average square power	230W	230W	140W
Maximum square power	650W	650W	390W

## Product Model

## FILMBASE Skyscraper media glass

Products	Skyscraper 04	Skyscraper 05	Skyscraper 06
Pitch	P30*30	P50*50	P80*80 or more
Screen brightness (nits)	0~1200	0~600	Consultation Customization
Visual transparency	≥98%	≥99%	≥99%
Pixel pitch	31.25×31.25mm	50×50mm	80×80mm
Module	250×500mm	250×500mm	Consultation Customization
Pixel density	1024	400	156
Best view distance	≥30m	≥50m	≥80m
Viewing angle	≥160°	≥160°	≥160°
Average square power	70W	35W	Consultation Customization
Maximum square power	160W	90W	Consultation Customization

## Technical Parameters

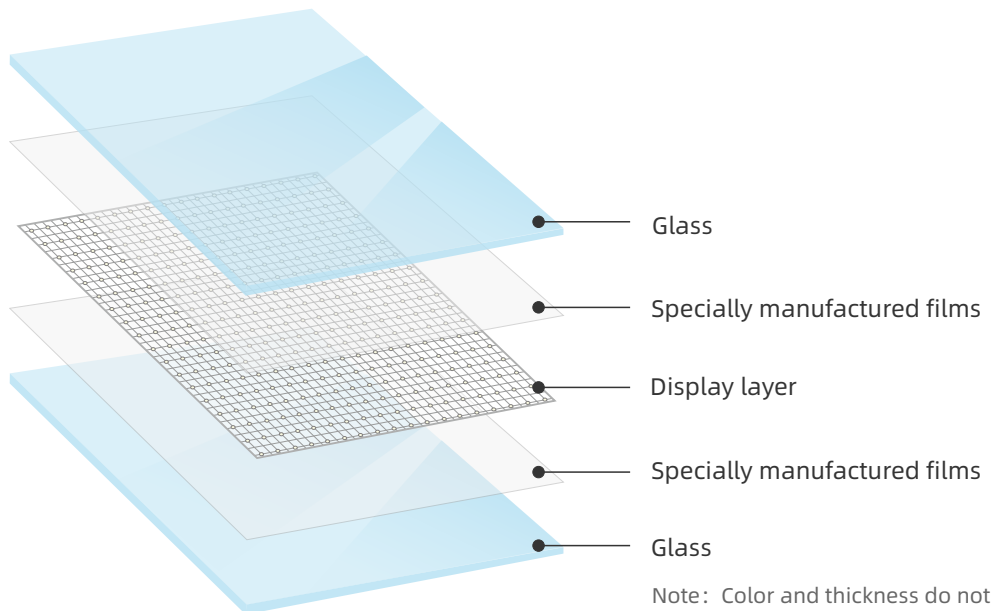
## FILMBASE Skyscraper media glass

Pixel specification	1R1G1B	Brightness adjustment	32X65536
Pixel package	SMD2020	Operating voltage	+5VDC
Screen material	Tempered Glass	Working temperature	-20°C~55°C
Grayscale level	65536	Storage temperature	-40°C~80°C
Refresh rate	≥3840	Working humidity	10-90%
Control system	Transmitter cards, asynchronous cards, asynchronous playback boxes, video processors	Storage humidity	5-95%



# Luxurious media glass

The display chip and control software implanted into glass can make the Glass itself become media, Designed for Luxury store, commercial centre ,Mall with multiple functions such as spreading information, creating value, improving recognition and enhancing influence, so that the eyes are beautiful scenery. Change the display content at any time, support human-machine interaction, and make the space interesting and promising.



Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.

## Product Model

## FILMBASE luxurious media glass

Products	Luxurious 01	Luxurious 02	Luxurious 03	Luxurious 04
Pitch	P4	P5	P6	P8
Screen brightness (nits)	0~5000	0~5000	0~5000	0~5000
Visual transparency	≥90%	≥90%	≥95%	≥95%
Pixel pitch	4.16×4.16mm	5×5mm	6.23×6.23mm	8.3×8.3mm
Module	124.8×500mm	200×500mm	124.6×499mm	166×498mm
Pixel density	57600	40000	25600	14400
Best view distance	≥4m	≥5m	≥6m	≥8m
Viewing angle	≥160°	≥160°	≥160°	≥160°
Average square power	230W	230W	230W	230W
Maximum square power	650W	650W	650W	650W

## Product Model

## FILMBASE luxurious media glass

Products	Luxurious 05	Luxurious 06	Luxurious 07
Pitch	P10	P15	P20
Screen brightness (nits)	0~5000	0~4000	0~3000
Visual transparency	≥95%	≥98%	≥98%
Pixel pitch	10×10mm	15.6×15.6mm	20×20mm
Module	200×500mm	250×500mm	200×500mm
Pixel density	10000	4096	2500
Best view distance	≥10m	≥15m	≥20m
Viewing angle	≥160°	≥160°	≥160°
Average square power	230W	200W	140W
Maximum square power	650W	520W	390W

## Technical Parameters

## FILMBASE luxurious media glass

Pixel specification	1R1G1B
Pixel package	SMD2020
Screen material	Tempered Glass
Grayscale level	65536
Refresh rate	≥3840
Control system	Transmitter cards, asynchronous cards, asynchronous playback boxes, video processors

Brightness adjustment	32X65536
Operating voltage	+5VDC
Working temperature	-20°C~55°C
Storage temperature	-40°C~80°C
Working humidity	10-90%
Storage humidity	5-95%



# LED FILM

Widely used in glass curtain wall, show case display, advertising media, space decoration, partition decoration, home design, landscape lighting, commercial display, functional signage and so on.



# About LED Film

LED film creat innovation, vitality and beauty into the existing glass curtain wall, window, guardrail, shopping mall, exhibition hall. Its HD transparency features a dynamic digital identity while retaining natural light. This revolutionary technology turns buildings and Spaces into immersive media platforms that showcase real-time information, artwork and advertising. From commercial buildings to cultural centers, they can be self-pasted, hung, or sandwiched-between glass displays, integrating with the environment and creating eye-catching focal points everywhere.



## Adjustable high brightness

With different pixel density, conventional 3000cd/m<sup>2</sup>, Highlight 5000cd/m<sup>2</sup>; customized >7000cd/m<sup>2</sup>.



## Crop stitching

The signal is transmitted in a straight line to ensure that the screen can be cut and spliced.





## Ultra thin

The LED are hidden, and the conventional front and rear flat films are <2.5mm. Ultra-thin customized front and rear flat film <1.5mm.



## High transparency

About 50-90% physical transparency with different point spacing, and a reasonable viewing distance of 99% visual transparency.



## Easy to install

Lightly paste the film on the glass, separate the controller and install it. Plug connection and installation is complete.



## Non-destructive repair

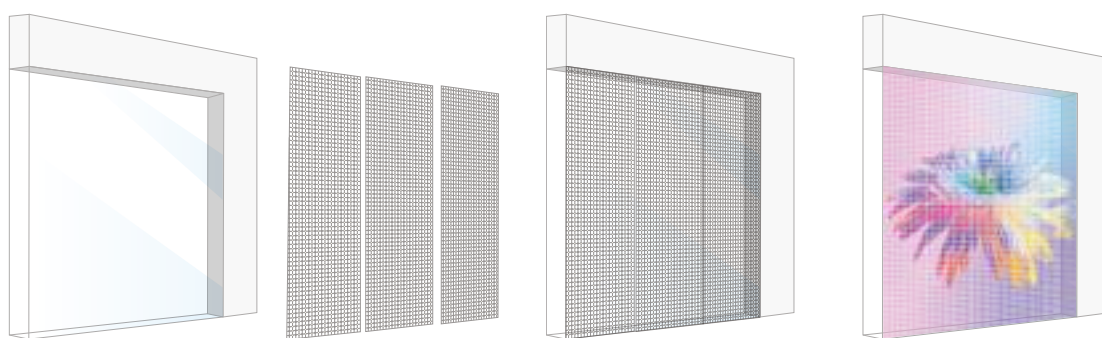
The surface protective film can be replaced at any time to ensure that the screen is brand new at any time, and the bad film that cannot be repaired on site can be directly replaced with a new film.





# Holographic invisible display

The high-definition transparent feature adds a dynamic display effect while preserving natural light. This revolutionary technology transforms buildings and spaces into immersive media display platforms for real-time information, artwork and advertising. From commercial buildings to cultural centers, Mikko's invisible displays, which can be self-adhesive or suspended, blend in with the city.



## Product Model

## FILMBASE Holographic invisible display

Products	Invisible 01	Invisible 02	Invisible 03	Invisible 04	Invisible 05
Pitch	P4	P5	P6	P8	P10
Screen brightness (nits)	0~5000	0~5000	0~5000	0~5000	0~5000
Visual transparency	≥90%	≥90%	≥95%	≥95%	≥95%
Pixel pitch	4×4mm	5×5mm	6×6mm	8×8mm	10×10mm
Module	W240×H≤1500	W240×H≤1500	W240×H≤1500	W240×H≤1500	W240×H≤1500
Pixel density	62500	40000	27556	15625	10000
Best view distance	≥4m	≥5m	≥6m	≥8m	≥10m
Viewing angle	≥160°	≥160°	≥160°	≥160°	≥160°
Average square power	230W	230W	230W	230W	230W
Maximum square power	650W	650W	650W	650W	650W

## Product Model

## FILMBASE Holographic invisible display

Products	Invisible 06	Invisible 07	Invisible 08	Invisible 09
Pitch	P15	P20	P30	Consultation Customization
Screen brightness (nits)	0~4000	0~3000	0~1200	Consultation Customization
Visual transparency	≥95%	≥98%	≥98%	Consultation Customization
Pixel pitch	15×15mm	20×20mm	30×30mm	Consultation Customization
Module	W240×H≤1500	W240×H≤1500	W240×H≤1500	Consultation Customization
Pixel density	4356	2500	1089	Consultation Customization
Best view distance	≥15m	≥20m	≥30m	Consultation Customization
Viewing angle	≥160°	≥160°	≥160°	≥160°
Average square power	230W	160W	100W	Consultation Customization
Maximum square power	650W	480W	260W	Consultation Customization

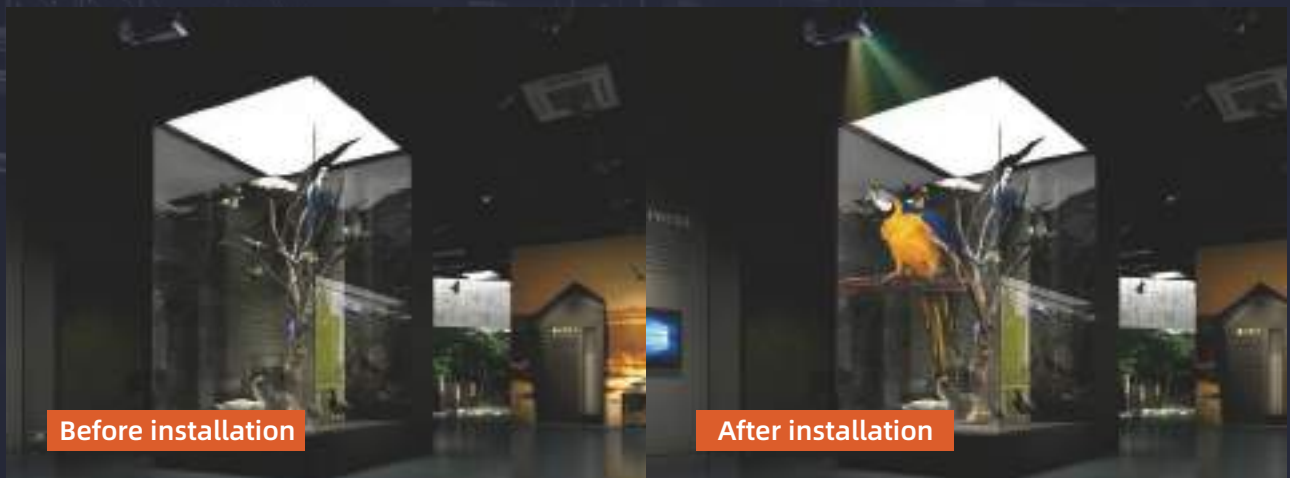
## Technical Parameters

## FILMBASE Holographic invisible display

Pixel size	1R1G1B	Control method	mobile phone/computer
Pixel packing	1515 / 2020	Support video	Internal storage/U disk/synchronization
Color uniformity	±0.003	Screen material	Flexible substrate + organic resin
Grayscale level	65536 levels	Working temperature	-20~50°C
Brightness adjustment	32-bit current gain	Storage temperature	-40~70°C
Drive method	Static state	Working humidity	10-90%
Refresh rate	3840	Storage humidity	5-95%

# UTD<sup>AR</sup> FILM

Widely used in for exhibition, museum, superstore, science and technology museum, Stage beauty, city lighting, culture and tourism night tour, etc.

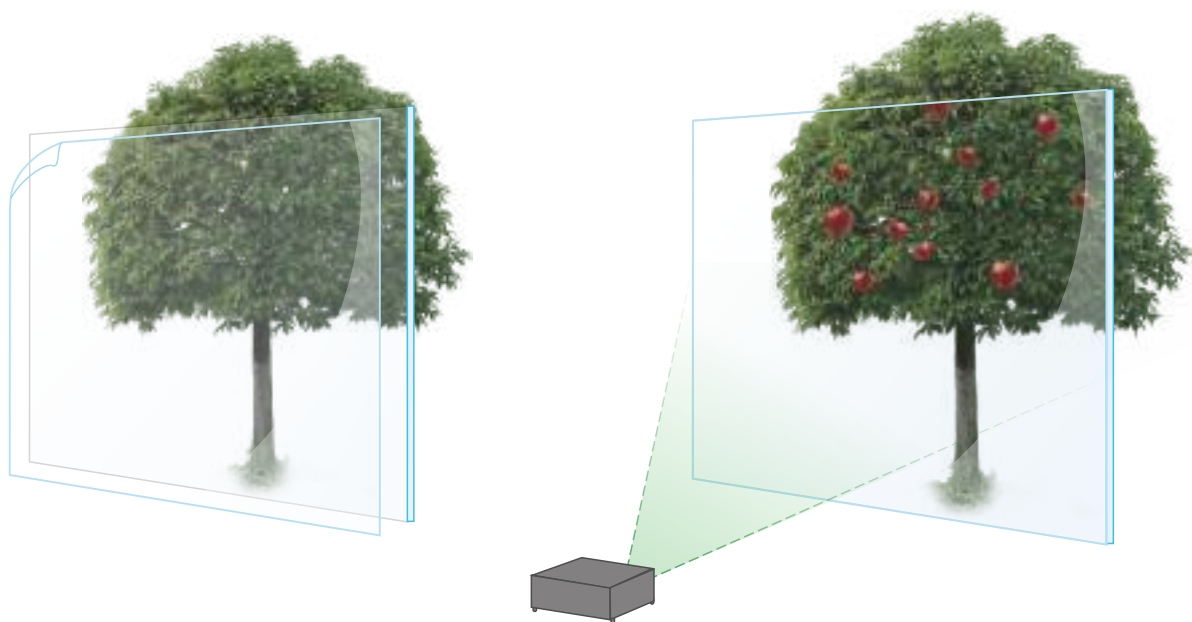


# About UTD<sup>AR</sup> film

Filmbase UTD<sup>AR</sup> film (ultrathin transparency display) is based on the principle of projector reflection imaging, and the surface of the film is coated with a nano-scale photosensitive coating through a vacuum magnetron sputtering coating process, so that the film maintains a high transmittance and also has a high reflectivity (mirror appearance), 170-degree phantom imaging, composite phantom imaging and stereoscopic suspended phantom imaging.

A brand-new projection medium is displayed in important event scenes, which is more transparent than traditional screens, and can make the image suspended in the air to produce a hazy and magical visual effect.

UTD<sup>AR</sup> film remains transparent while ensuring that the picture is still bright and the colors are vivid and saturated. The audience can see any object on the back through the holographic invisible screen, and can also use the light transmission secondary imaging, which is more transparent than the traditional projection screen, and can make the image suspended in the air.





## Transparent HD

It has the unique characteristics of full transparency and high definition, which can be placed in the best advertising position. The visual effect of full transparency, high definition and 3D future technology can quickly improve the publicity effect.



## Ultra-thin profile

Simple and ultra-thin, resistant to strong light and anti-aging. The appearance is beautiful and generous, fully reflecting the fashion and avant-garde atmosphere.



## High performance and low cost

The existing 3D transparent and AR display technologies on the market all require high costs, while Filmbase double sides projection film is a perfect combination of high performance and low cost



## Commercial value

The existing 3D transparent and AR display technologies on the market all require high costs, while Filmbase double sides projection film is a perfect combination of high performance and low cost.





# Flexible lifting screen

Can be in any position in the air naked eye 3D transparent display, not blocking the line of sight, but also can be integrated into the space, very rich sense of science fiction, to create the best advertising space, display space.

Widely used in exhibition halls and pavilions, stage and stage art, restaurants and bars, nightclubs, KTV, commercial space.

## Product Advantages

- Fully transparent, ultra high definition, large area, liftable.
- Naked eye 3D display, perfectly integrating into the environment space.
- Flexible and thin, safe and reliable, ultra-low power consumption, high cost-effectiveness.



## Product Parameters

### Flexible lifting screen

Thickness	0.2mm
Width	1320mm
Haze	<2.0%
Viewing angle	170°
Transmittance	>70%
Operating temperature	-20°C-60°C
Storage temperature	25°C±1°C
Storage humidity	35%-75%
Resolutions	up to 8k



# Naked-eye AR screen

Naked eye augmented reality see-through display based on Mikron's transparent nano display chip technology. Visitors can not only appreciate the original display of exhibits, but also watch the dynamic product multimedia information completely superimposed on the exhibits, realizing the clever fusion of virtual information and the real world, creating a new way of displaying information, and bringing visitors a never-before-seen visual experience.

Widely used in all kinds of museums, science and technology museums, regulation museums, exhibition halls and so on.

## Product Advantages

- Ultra-large size, single piece size of up to 130 square feet, and support the continuation of seamless splicing, ultra-high-definition, full-color, dynamic display;
- Floating three-dimensional 3D display, so that the virtual and reality skillfully fused;
- Instantly catch the eye of visitors, feel the new immersive scene;
- Support remote content update, can be timed on and off.



## Product Parameters

Naked-eye AR screen

Thickness	0.2mm
Width	1320mm
Haze	<2.0%
Viewing angle	170°
Transmittance	>70%
Operating temperature	-20°C-60°C
Storage temperature	25°C±1°C
Storage humidity	35%-75%
Resolutions	up to 8k



# Theme transparent screen

It is a brand new product based on transparent nano display chip technology, including a set of see-through screen, HD smart projector and hanging bracket and other components. The product is fully transparent, with a single chip size of up to 130 square feet and supports seamless splicing to unlimited size. The installation of the product does not need to change the original layout of the nightclub, maximizing the use of existing space and maximizing the commercial value.

Widely used in bars, KTV, clubs, hotels, restaurants and other scenes across the country.

## Product Advantages

- Large size, ultra-high definition, full color, dynamic display;
- Floating three-dimensional 3D display, full sense of technology;
- One-piece suspension design, make full use of the original space, to create a new way of creating the atmosphere of the scene;
- Support remote content update, can be timed on and off.



## Product Parameters

### Theme transparent screen

Thickness	0.2mm
Width	1320mm
Haze	<2.0%
Viewing angle	170°
Transmittance	>70%
Operating temperature	-20°C-60°C
Storage temperature	25°C±1°C
Storage humidity	35%-75%
Resolutions	up to 8k



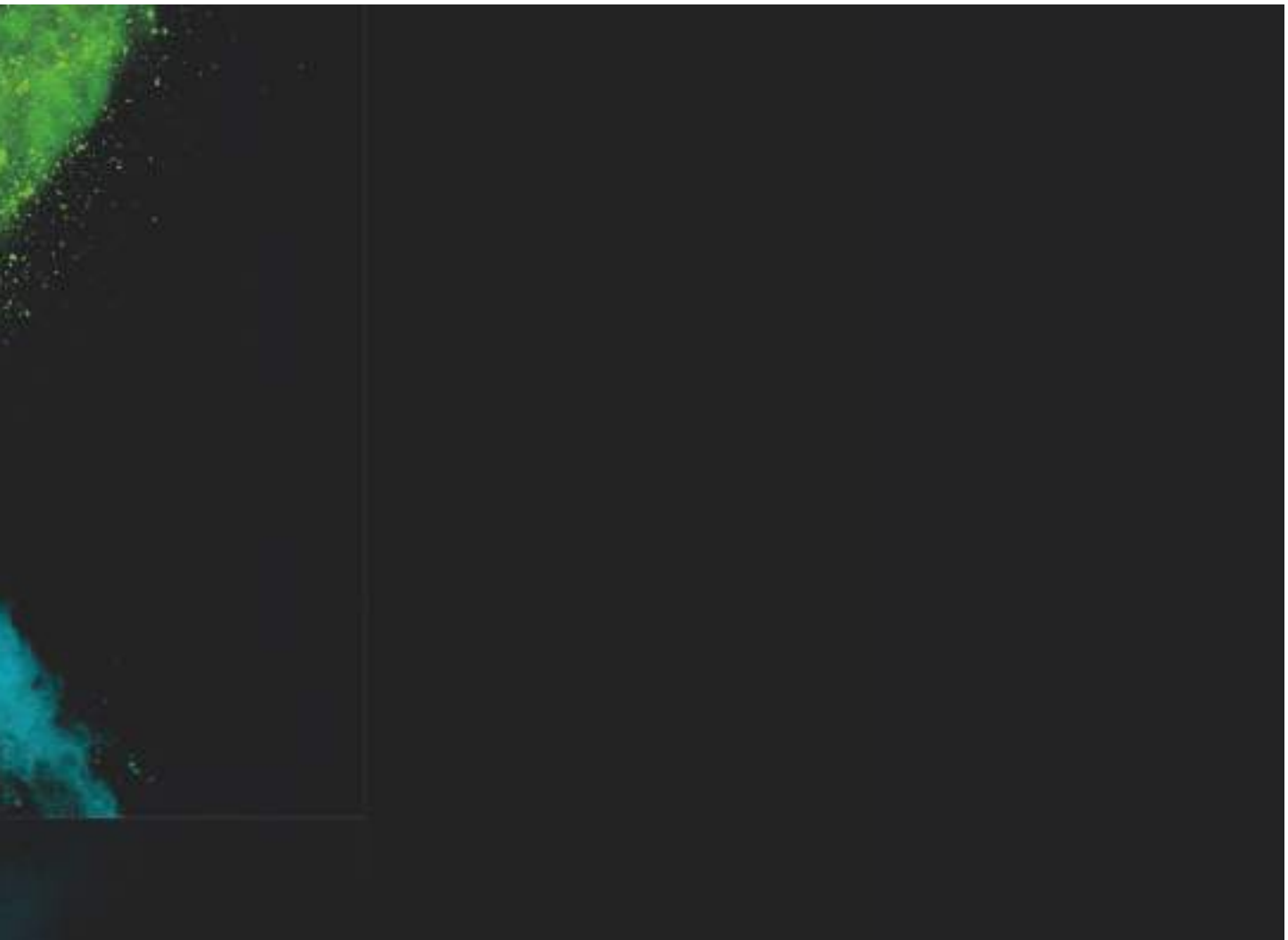
# Perspective dance screen

Specialized in stage beauty can be realized in the air dynamic imaging transparent display products, based on the Royal Light transparent nano-display chip technology research and development, the product has a transparent, high-definition and other qualities, to bring the audience a new immersive experience, with a variety of realistic, and the fusion of the reality of the scene so that the audience as if they were in the realm of reality.

Widely used in large-scale stage performances, performance halls, concerts, KTV, bars and other fields.

## Product Advantages

- Large size, ultra-high definition, full color, dynamic display;
- Floating three-dimensional 3D display, creating a new visual effect;
- High permeability, highly integrated with the stage environment;
- The screen can be adjusted by electric lifting, convenient for installation;
- Simple installation method, easy maintenance.



## Product Parameters

### Perspective dance screen

Thickness	0.2mm
Width	1320mm
Haze	<2.0%
Viewing angle	170°
Transmittance	>70%
Operating temperature	-20°C-60°C
Storage temperature	25°C±1°C
Storage humidity	35%-75%
Resolutions	up to 8k





# Transparent image wall

Replace the traditional entity image wall, completely break the space boundaries, in the transparent glass display three-dimensional floating corporate logo, dynamic welcome speech, corporate profile, product introduction, to realize the science fiction, future, black science and technology display effect, to create a new image of government and enterprises.

Widely used in all kinds of enterprises' front desk, government exhibition halls and halls and lobbies.

## Product Advantages

- Large size, ultra-high definition, full color, dynamic display;
- Floating three-dimensional 3D display, let science fiction become reality;
- Fully transparent corporate image wall, breaking the boundaries of space;
- Instantly catch visitors' eyes and create a new corporate image;
- Support remote content update, can be timed on/off.



## Product Parameters

### Transparent image wall

Thickness	0.2mm
Width	1320mm
Haze	<2.0%
Viewing angle	170°
Transmittance	>70%
Operating temperature	-20°C-60°C
Storage temperature	25°C±1°C
Storage humidity	35%-75%
Resolutions	up to 8k



# Reception AI human screen

Transparent high-definition display and super artificial intelligence combined with a digital virtual man, to provide users with voice interaction services. The image and content of the virtual man can be customized on demand, and the highly realistic projection on the fully transparent glass screen can be used for welcoming, explaining, consulting and shopping guide.

Widely used in various types of corporate exhibition halls, various types of exhibition halls, banks, airports, commercial spaces.

## Product Advantages

- Ultra-high-definition, full-color, dynamic display;
- Floating three-dimensional 3D display, realistic image, alternative to real people;
- Alternative to the real narrator 24/7 explanation, saving enterprise costs;
- Real-time voice interaction, bringing visitors a new experience, leaving a deep impression.



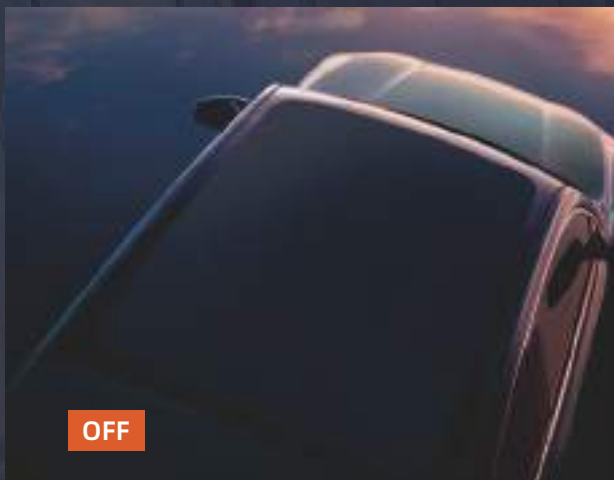
## Product Parameters

### Reception AI human screen

Thickness	0.2mm
Width	1320mm
Haze	<2.0%
Viewing angle	170°
Transmittance	>70%
Operating temperature	-20°C-60°C
Storage temperature	25°C±1°C
Storage humidity	35%-75%
Resolutions	up to 8k

# DLC FILM

Optical displays, optical traffic signal systems, dimmable curtains, architectural, automotive and aerospace industries, etc.



# About DLC Film

Filmbase DLC ( Dye Liquid Crystal) Film is a new glass material that controls luminous flux. DLC film based products allow glass to dim and tint from opaque to transparent for user controlled shading and glare mitigation.

DLC film independent R&D with 11 patents and precision manufacturing. Offers best architectural, automotive, and aeronautical responses to requirements for light control, thermal control, and energy conservation.



## Ai light control

Dynamic Shading, Fast Reaction. Manually adjust dlcf transparency for free control of interior light.



## Deny access to light

Blocking up to 99% of visible light, UV and IR, saving energy.



## Intelligent control

Equipped with an intelligent control system that includes elecontrol, an APP, remote control, AI integration, and customization.



## 0.1s fast switching

Switches between frosted and transparent states, providing a privacy function.



## Display screen

Pair with a projector to become an ultra-high definition rear projection screen.



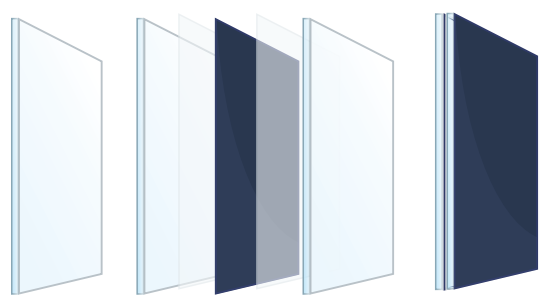


# DLC Film

DLC film blocks out light and heat, can be adhered onto existing glass or laminated into new glass structures.



Self-adhesive DLC film



Laminated DLC film

## Technical Properties

DLC Film

Switching Time		0.1s
Operating Temperature		-20~80°C
Film Thickness		340μ
Maximum Width	Self-adhesive	1840mm
	Laminated	<2200mm
Cut-to-Fit		Custom Sizes,Shapes, Busbar Position;Holes and Notches
Interlayer Compatibility		PVB,EVA,TPU
Glass Types		Annealed, Tempered, Clear, Low Iron/Ultra Clear, IG Units, Other
Patterning Available		Yes
Storage Conditions		-20°C to+60°C,<60%Humidity

## Electrical Performance

DLC Film

Operative Controllers		Mini, Flex, Multiplex,Custom
Operating Modes		Fade,ON/OFF,Dimmer
Operating Voltage		36-65VAC
Operating Frequency		22,25,30,50,60Hz
Response Time from dark to light		<1s
Response Time from light to dark		<1s
Visible Light Transmittance(light)		50~68
Visible Light Transmittance(dark)		1~5
UV Rejection(light)		99
UV Rejection(dark)		99.9
Dimming Uniformity		Overall discoloration
Temperature		-35~85°C
Energy Consumption		2w/m <sup>2</sup>

## Optical Performance

DLC Film

Total Transmittance(OFF)		<1%
Total Transmittance(ON)		36%-58%
Haze(ON)		3.5%
Color Grade		l=59
		a=1
		b=-1.5



# POLARIZED FILM

Building doors and windows, skylights, curtain walls, automobiles, aviation, ferries and other fields.



# About Polarized Film

Filmbase Polarized Film is a new material that controls luminous flux and change color. Filmbase Polarized Film look like regular clear Film when indoors but automatically darken when moving into a brighter area.

Ultraviolet (UV) rays from the sun affect the molecules in the Polarized film so they change colour. They will darken in the light even on overcast days as UV rays still penetrate clouds.



## AI light control

Dynamic Shading, Fast Reaction.



## Deny access to light

Dynamic Shading, Fast Reaction.



## Energy saving

It will help save energy by helping to reduce light and heat during the sunniest times of the day.



## Easy install

Easy to install, only need to be pasted on the glass surface, no need to connect wires.



## Extra large customized size

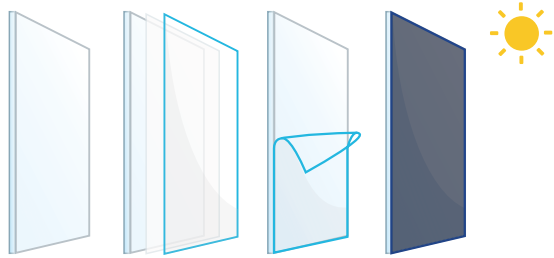
Available in different widths from 1m to 1.5m, with a height capacity of up to 50m.



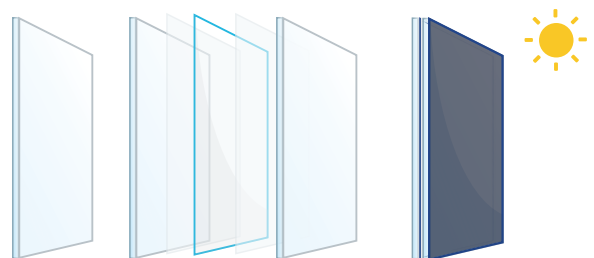


# Polarized Film

Polarized film can be adhered onto existing glass or laminated into new glass structures.



Self-adhesive DLC film



Laminated DLC film



## Product Parameters

## Polarized Film

Thickness	Self-adhesive	0.5mm
	Laminated	0.4mm
Visible light transmittance	Transparent state	≥91%
	Discoloration status	≤13%
Haze	Transparent state	≤1%
	Discoloration status	≥1.5%
Viewing angle	Transparent state	≥160°
UV blocking rate	Transparent state	≥81%
	Discoloration status	≥95%
Infrared blocking	Transparent state	≥7%
	Discoloration status	≥7%



# FILMBASE<sup>®</sup>



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