

FILMBASE 

Innovative, Love, Sustainability

FILMBASE 



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**Your Space
We Care**

With the intensification of global climate change, extreme weather events, rising sea levels, the loss of biodiversity and environmental pollution have become increasingly severe, posing a huge threat to human society and the natural environment. Against this backdrop, green innovation has become a key approach to addressing these challenges and achieving sustainable development.

Why FILMBASE established ?

FILMBASE is precisely based on the concern for this global issue and the pursuit of green innovation. The company is committed to developing new environmentally friendly building materials, display materials and energy materials to reduce dependence on natural resources and environmental pollution. One innovative product after another developed by the company not only helps save the earth's energy and reduce global carbon emissions, but also enhances the aesthetics and value of buildings. While improving the living standards of human beings, it also promotes ecological protection and environmental improvement.

FILMBASE is not limited to its products themselves, but also extends to its global business practices. The company has established eight joint production bases worldwide, providing technology transfer and production guidance to other international enterprises that wish to produce and manufacture this high-value green and environmentally friendly product. It has also established partnerships with many world-class brands, promoting green technology to the international market. Through these efforts, FILMBASE not only promotes the use of environmentally friendly materials but also enhances global awareness of green buildings and design.

In the future, FILMBASE will continue to take green innovation as its original aspiration. Through continuous technological research and development and market promotion, it will provide high-quality products and services to global customers and jointly build a smarter and greener world.

Why link to Filmbase



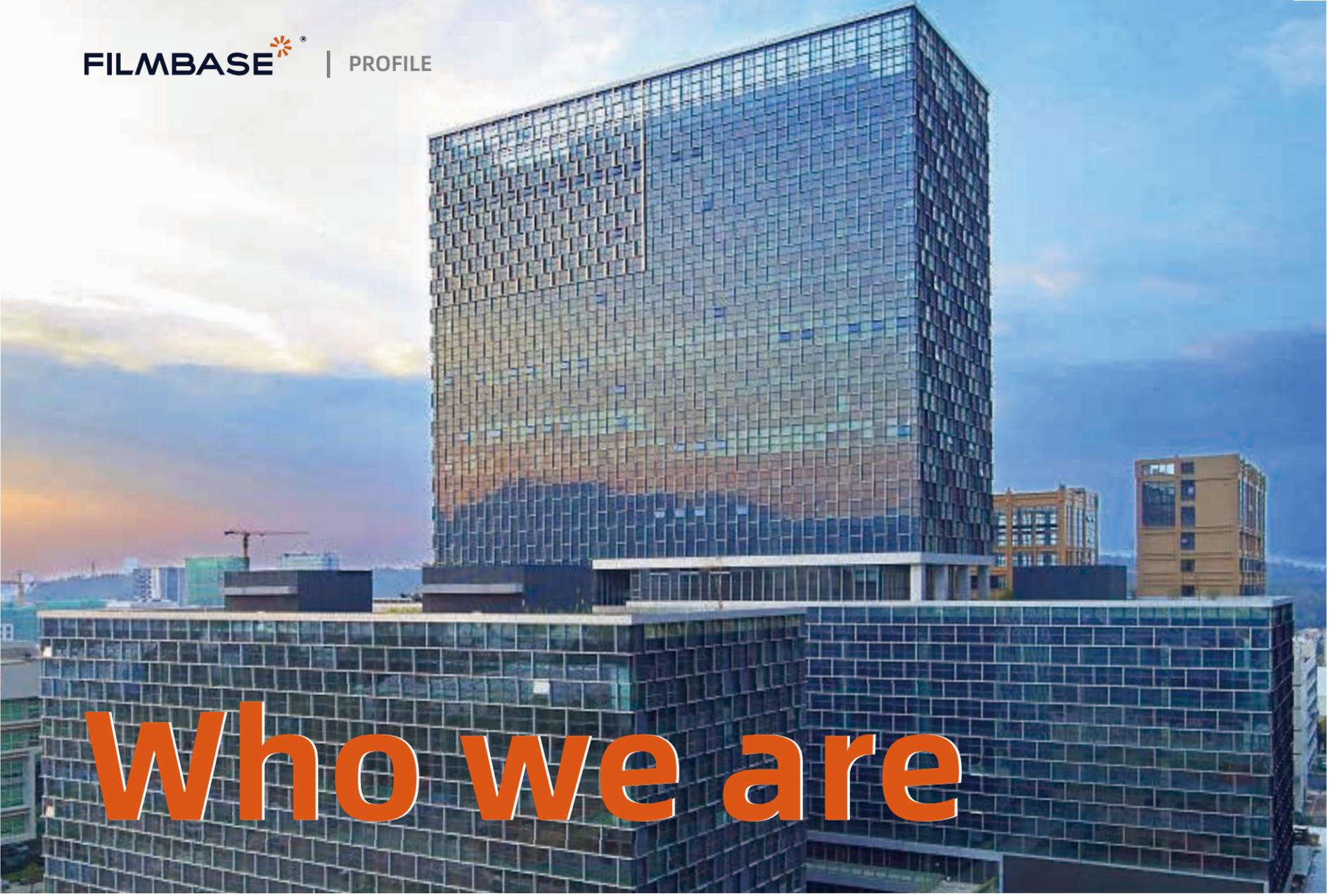
When you come here and see what Filmbase are doing, it means a beautiful and meaningful cooperation is about to begin.

A Grateful Encounter. we look forward to establishing deep links and cooperating with you to witness the infinite possibilities of innovation and exploration of horizons and Spaces.

On this journey, you and Filmbase will create a green future, bring more comfortable life to human, while lead the trend of low-carbon innovation, and inject vitality into the sustainable development of the planet.

- 01** You will witness how Filmbase **PDLC films** can subtly replace traditional curtains, reduce the need for fabric production, reduce cotton cultivation and land resource occupation, and bring them to people, get the privacy of simple and the beauty of space switching, and contribute to sustainable development.
- 02** You will witness how Filmbase **PDLC glass** replaces the heavy solid wall with a light attitude, saving sand resources and reducing the generation of construction waste; At the same time, it is thinner, lighter and easier to recycle, reducing transportation and installation costs and improving space benefits Use efficiency. Please Bring this wonderful product to your country.
- 03** You will witness how Filmbase **LED film, LED glass** is subverting the traditional LED display, through the innovative integration of "glass + display" new materials, becoming an ideal choice for low-carbon +value buildings, create additional value for owners such as advertising and landmarks.
- 04** You will also see how Filmbase **VC glass** significantly reduce building energy consumption with smart insulation technology, sound insulation technology, indoor cooling and heating, To achieve the perfect balance of energy saving and comfort.
- 05** You will see How Filmbase **Flying display** empowers low-altitude economy and low-altitude performance, making the activity more shocking and exciting, and making the business more valuable.
- 06** You will also see how Filmbase 0.2mm **Ultra thin transparent holographic display film** empowers space and vision, creating a holographic horizon that makes space and vision infinite.
- 07** You will also see the display or the film which can **self-electricity** or make the electricity.

Through technological innovation and product upgrading, Filmbase actively responds to the international energy saving and carbon reduction action plan under the premise of improving people's lives, and develops and produces energy-efficient building materials, display materials and energy materials. We invite you to join Filmbase to create a smarter, greener and comfort future In this journey, We are all not only a spectator, but also a participant and creator.



Who we are

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 high-tech enterprise ,a specialized, refined, distinctive and innovative enterprise that focuses on new materials for construction, display and energy. Which holds over 150 patents including invention patents and utility model patents. It is the only global innovative enterprise that integrates the three major industries and technologies of construction, display and energy. FILMBASE products have obtained authoritative certifications such as CCC, UL, PSE, CE, CB, RoHS and FCC. Currently, it has joint production bases in Germany, Brazil, South Korea, Dubai and other places. Since its establishment 8 years ago, We achieved rapid development. It began preparing for listing in March 2023, and CITIC Securities has been providing guidance for 2 years.

FILMBASE strictly adheres to ISO9001 and ISO14000 standards, manufacturing world-leading LED Film ,3d display glass, PDLC films, Smart Glass , UTD , thermochromic materials, photochromic materials, low-altitude flying display films, and related components and products.

We provide the most advanced technologies and solutions for global city design, architectural design institutes, interior design, supermarkets, media advertising agencies, curtain wall displays, and space partitions.

Company: Shenzhen Filmbase Technology Co., Ltd

----- PROVIDE -----

Brand:

FILMBASE[®]

----- HAVE -----

Products:

**Media Glass | LED Film | Switchable Glass
Smart Film | UTD^{AR} Film | VC Glass | FLY Display
SELF-ELECTRIC Display | Smart Door and Window**

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.

2022

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

2023

Preparing IPO
Established YuGuang Energy (perovskite)

2024

Expand HQ to Pingan international center .developed flying display , VC glass . Self-electric display tech.

2025

Continuously innovate and improve, and continue to provide partners with absolutely competitive advanced new material products and comprehensive solutions.

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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

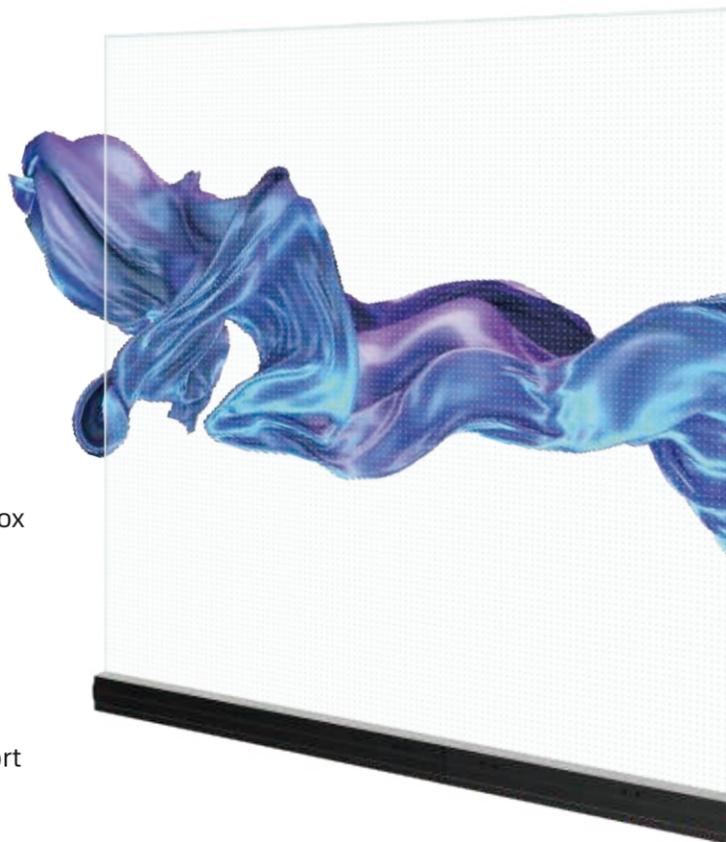


See through display, Glass+ display+control box all in one
- 

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



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



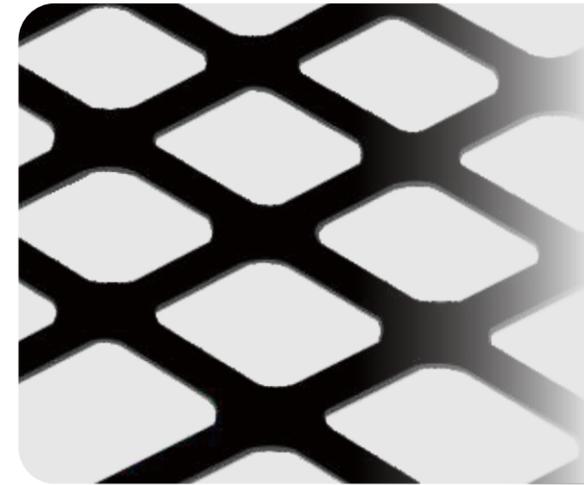
Display chip

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



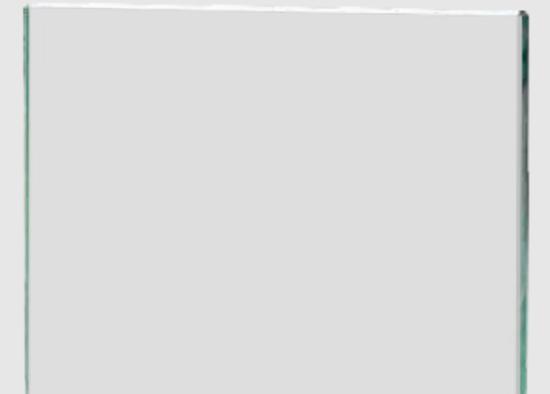
Mesh type PCB

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

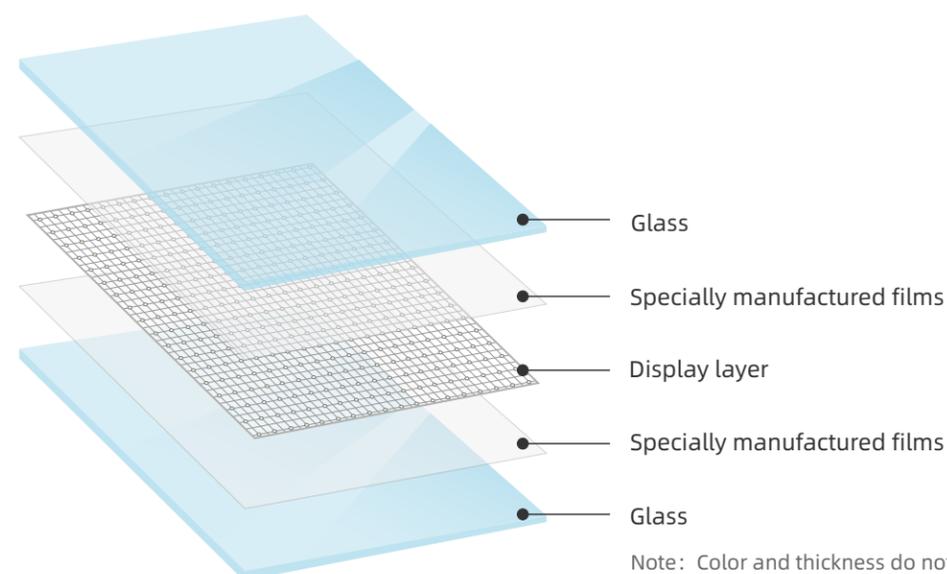
Implanting the display chip and control software into Facade glass allows the building itself to become a media glass, with disseminating information, creating building value, improving recognition and enhancing influence.





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 | P7.9*7.9 | 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

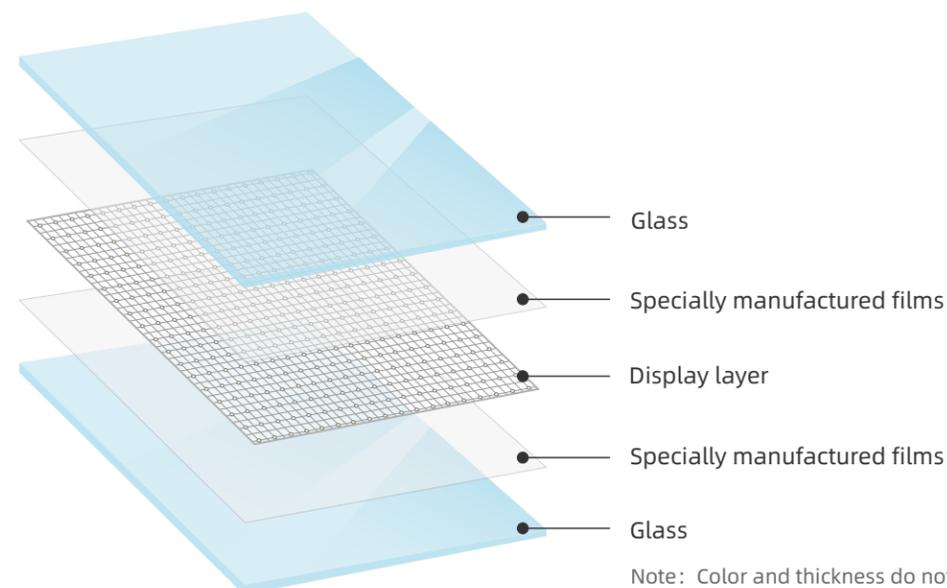
FILMBASE Skyscraper media glass

| | | | |
|---------------------|--|-----------------------|------------|
| 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 | P3.9 | P4.9 | P5.9 | P7.9 |
| 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 | 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% |

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/m², Highlight 5000cd/m²; customized >7000cd/m².



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.



Crop stitching

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



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

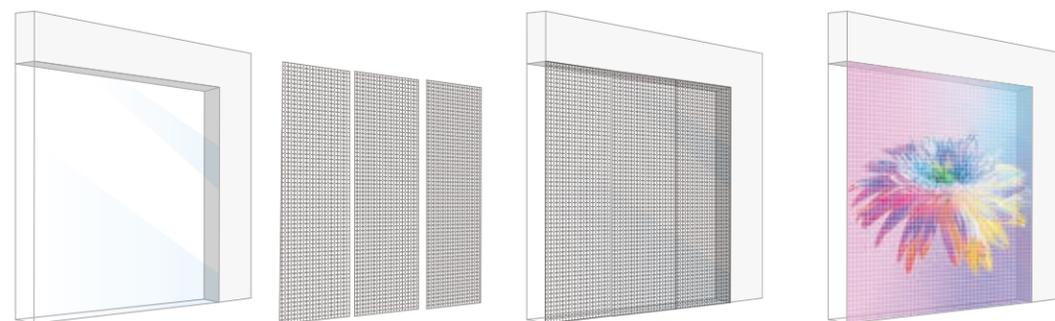
The surface protective film can be replaced at any time to ensure that the screen is brand new at any time, and the bad film that cannot be repaired on site can be directly replaced with a new film.





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, Filmbase 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 | P3.9 | P4.9 | P5.9 | P7.9 | 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% |

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

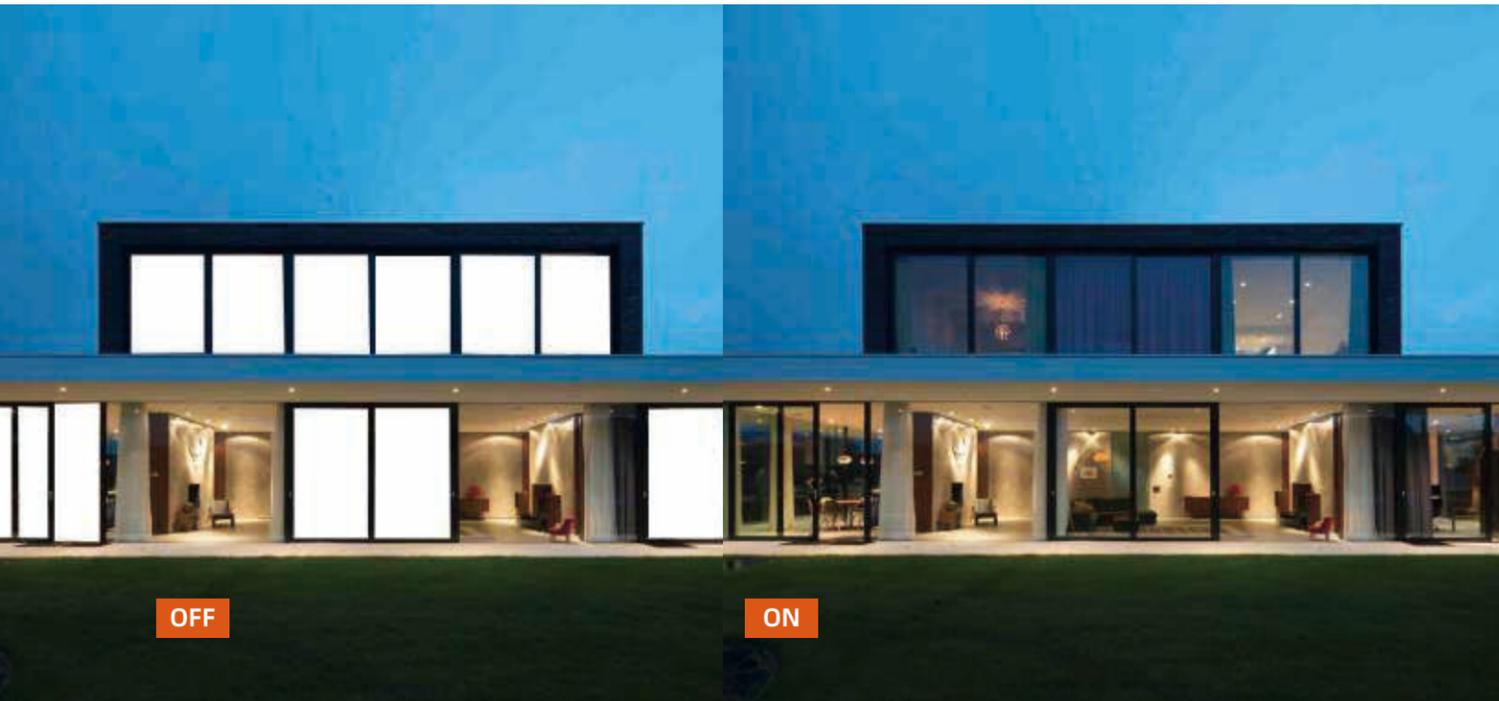
Compared with ordinary glass, the anti-noise ability of glass using Filmbase PDLC film is increased by 20%.



Various control methods

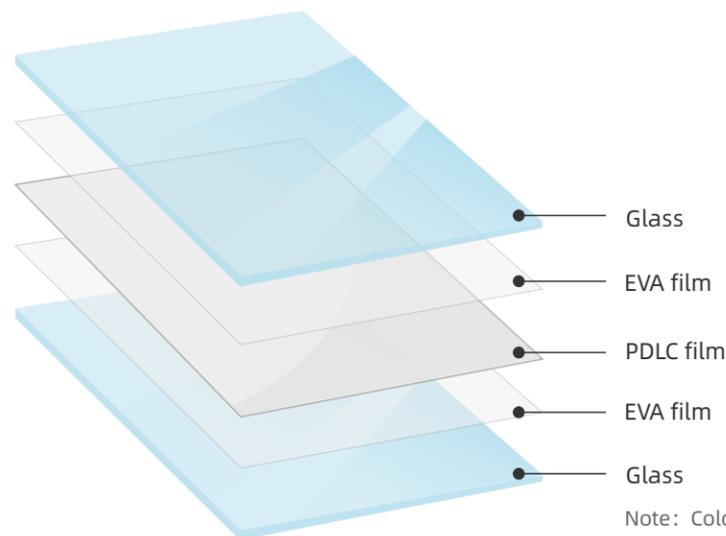
In order to meet your various needs, you can choose your preferred control method: remote control, wired control, infrared induction, voice control, mobile application, etc. In addition, an FM transformer can be selected to gradually change the film.





FILMBASE 0404/0505/0606

Filmbase switchable smart glass with PDLC film sandwiched in two pieces of glass of the same thickness, 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%, 87% and 91% transmittance, colorful available.

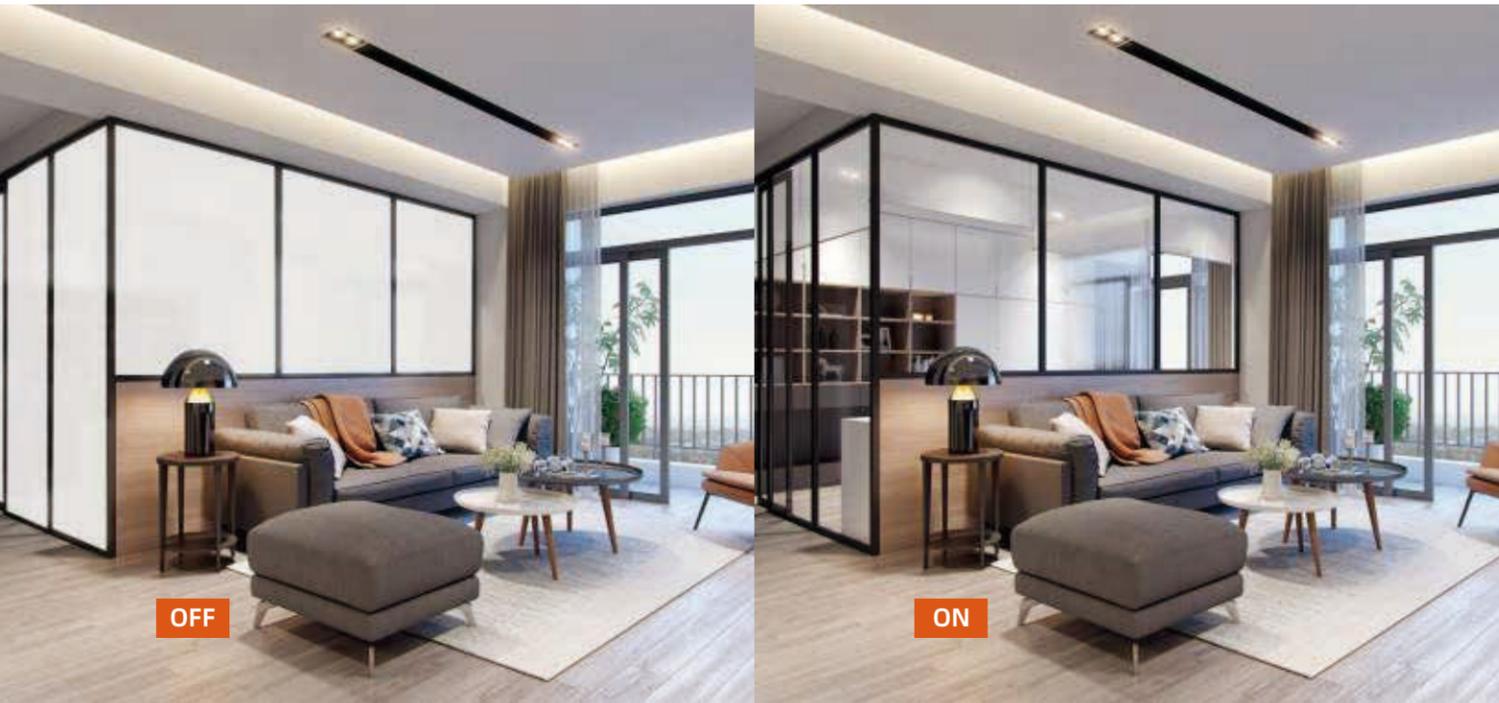


Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.

| Product Parameters | | | FILMBASE 0404 |
|---------------------------|---|-------------------|-------------------|
| 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 ² | 5w/m ² | 5w/m ² |
| 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 | | |

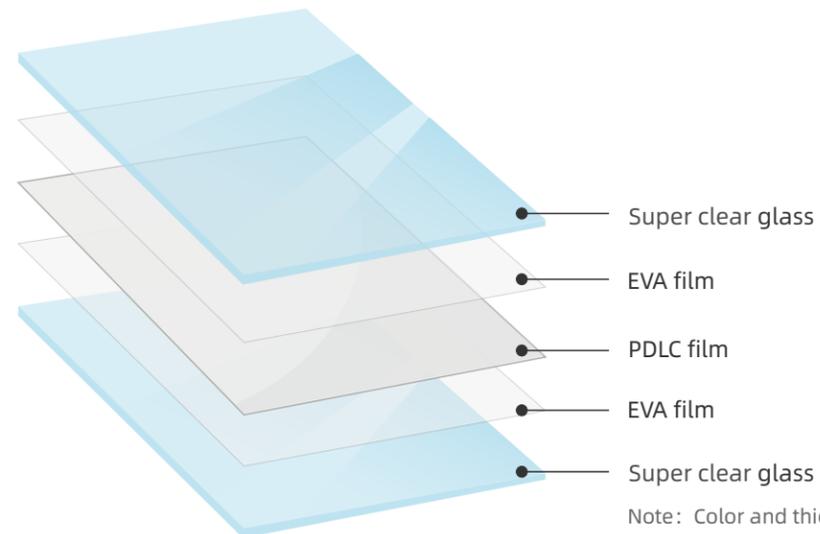
| Product Parameters | | | FILMBASE 0505 |
|---------------------------|---|-------------------|-------------------|
| Items | 085 PDLC film | 087 PDLC film | 091 PDLC film |
| Film color | White | White | White |
| Haze (on) | 6% | 4% | 4% |
| Haze (off) | 94% | 94% | 94% |
| Light transmittance (on) | 80% | 81% | 84% |
| Light transmittance (off) | 67% | 68% | 72% |
| Uv block | >99% | >99% | >99% |
| Ir block | >86% | >86% | >86% |
| Power consumption | 5w/m ² | 5w/m ² | 5w/m ² |
| 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 | | |

| 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 ² | 5w/m ² | 5w/m ² |
| 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 0404 plus/0505 plus/0606 plus

Filmbase switchable smart glass with PDLC film sandwiched in two super clear low-E identical thickness glasses, 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%,87% and 91% transmittance, colorful available.

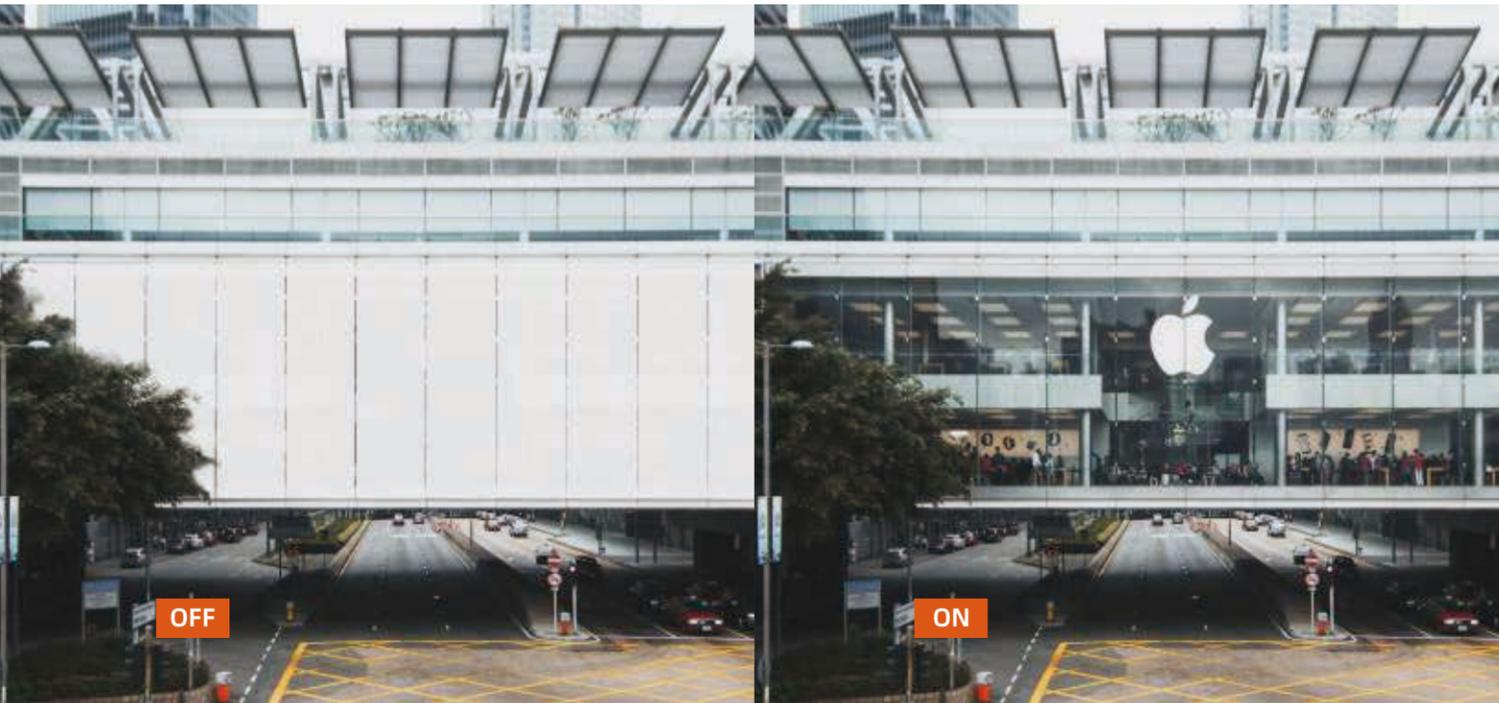


Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.

| 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 ² | 5w/m ² | 5w/m ² |
| 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 | | |

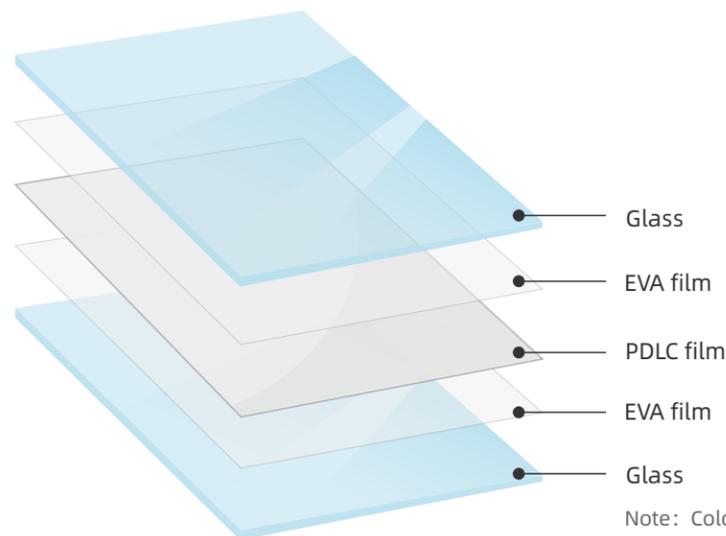
| Product Parameters | | | FILMBASE 0505 Plus |
|---------------------------|--|-------------------|--------------------|
| Items | 085 PDLC film | 087 PDLC film | 091 PDLC film |
| Film color | White | White | White |
| Haze (on) | 6% | 4% | 4% |
| Haze (off) | 94% | 94% | 94% |
| Light transmittance (on) | 81% | 82% | 86% |
| Light transmittance (off) | 69% | 70% | 74% |
| Uv block | >99% | >99% | >99% |
| Ir block | >86% | >86% | >86% |
| Power consumption | 5w/m ² | 5w/m ² | 5w/m ² |
| 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 | | |

| 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 ² | 5w/m ² | 5w/m ² |
| 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 0808/1010/1212

Filmbase switchable smart glass with PDLC film sandwiched in two pieces of glass of the same thickness, 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%, 87% 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 ² | 5w/m ² | 5w/m ² |
| Compatible with | Eva | Eva | Eva |
| Biggest size | 2000x4000mm | 2000x4000mm | 2000x4000mm |
| Input voltage | 100-120v 60Hz / 220-240v 50hz | | |
| Glass types | Flat,Curved,Tempered,Ultra Clear,Low-E,Other | | |

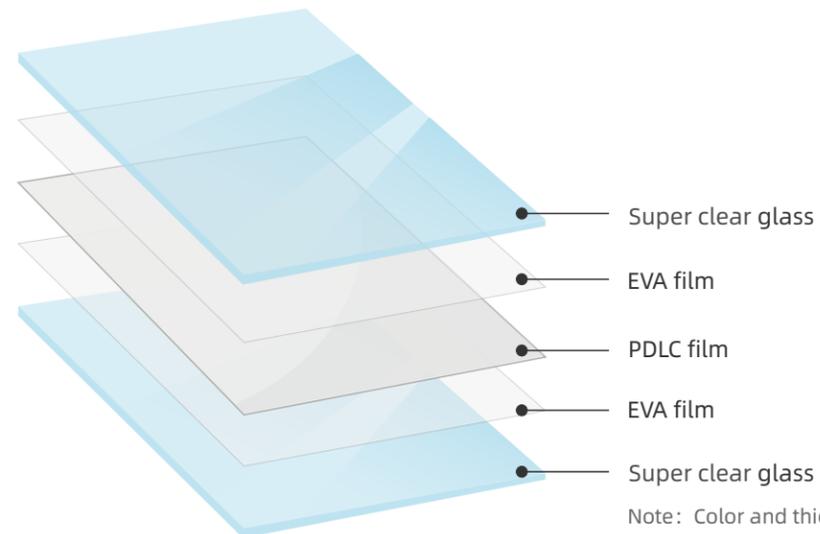
| Product Parameters | | | FILMBASE 1010 |
|---------------------------|--|-------------------|-------------------|
| Items | 085 PDLC film | 087 PDLC film | 091 PDLC film |
| Film color | White | White | White |
| Haze (on) | 6% | 4% | 4% |
| Haze (off) | 94% | 94% | 94% |
| Light transmittance (on) | 69% | 70% | 73% |
| Light transmittance (off) | 55% | 56% | 59% |
| Uv block | >99% | >99% | >99% |
| Ir block | >86% | >86% | >86% |
| Power consumption | 5w/m ² | 5w/m ² | 5w/m ² |
| Compatible with | Eva | Eva | Eva |
| Biggest size | 2000x5000mm | 2000x5000mm | 2000x5000mm |
| Input voltage | 100-120v 60Hz / 220-240v 50hz | | |
| Glass types | Flat,Curved,Tempered,Ultra Clear,Low-E,Other | | |

| 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 ² | 5w/m ² | 5w/m ² |
| Compatible with | Eva | Eva | Eva |
| Biggest size | 2000x6000mm | 2000x6000mm | 2000x6000mm |
| Input voltage | 100-120v 60Hz / 220-240v 50hz | | |
| Glass types | Flat,Curved,Tempered,Ultra Clear,Low-E,Other | | |



FILMBASE 0808 plus/1010 plus/1212 plus

Filmbase switchable smart glass with PDLC film sandwiched in two super clear low-E identical thickness glasses, 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%,87% and 91% transmittance, colorful available.

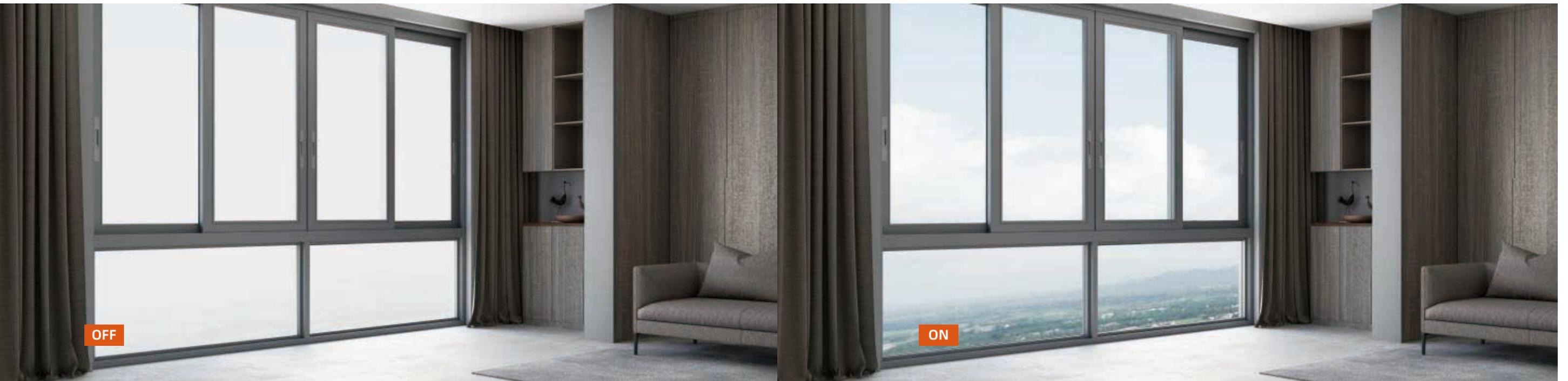


Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.

| 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 ² | 5w/m ² | 5w/m ² |
| Compatible with | Eva | Eva | Eva |
| Biggest size | 2000x4000mm | 2000x4000mm | 2000x4000mm |
| Input voltage | 100-120v 60Hz / 220-240v 50hz | | |
| Glass types | Flat,Curved,Tempered,Ultra Clear,Low-E,Other | | |

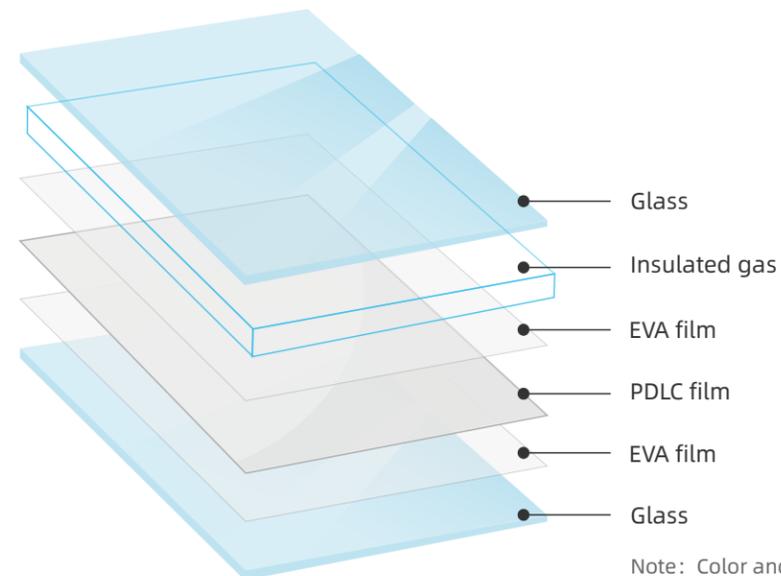
| Product Parameters | | | FILMBASE 1010 Plus |
|---------------------------|--|-------------------|--------------------|
| Items | 085 PDLC film | 087 PDLC film | 091 PDLC film |
| Film color | White | White | White |
| Haze (on) | 6% | 4% | 4% |
| Haze (off) | 94% | 94% | 94% |
| Light transmittance (on) | 80% | 81% | 85% |
| Light transmittance (off) | 64% | 65% | 67% |
| Uv block | >99% | >99% | >99% |
| Ir block | >86% | >86% | >86% |
| Power consumption | 5w/m ² | 5w/m ² | 5w/m ² |
| Compatible with | Eva | Eva | Eva |
| Biggest size | 2000x5000mm | 2000x5000mm | 2000x5000mm |
| Input voltage | 100-120v 60Hz / 220-240v 50hz | | |
| Glass types | Flat,Curved,Tempered,Ultra Clear,Low-E,Other | | |

| 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 ² | 5w/m ² | 5w/m ² |
| Compatible with | Eva | Eva | Eva |
| Biggest size | 2000x6000mm | 2000x4000mm | 2000x6000mm |
| 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.

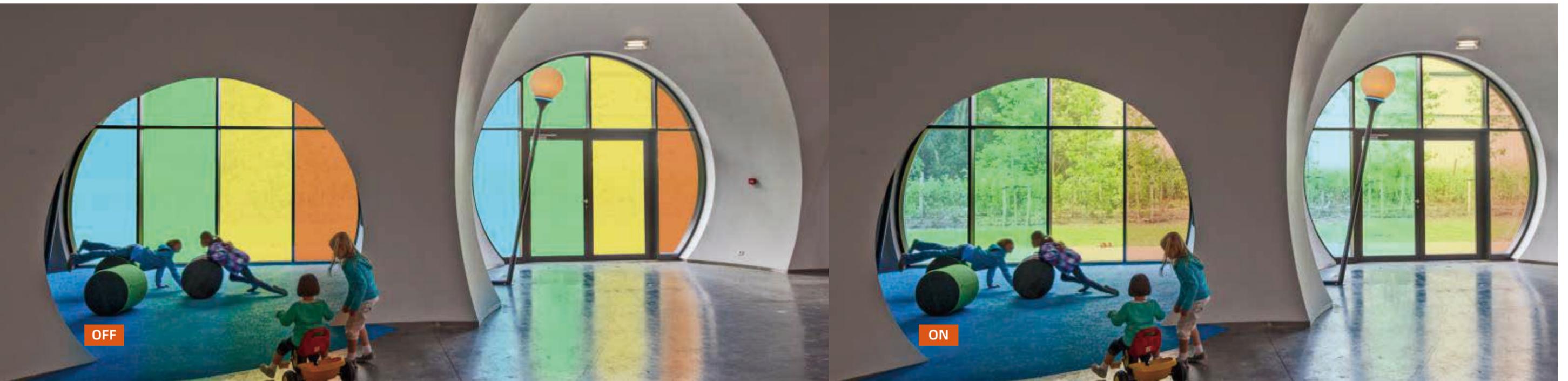


Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.

Product Parameters

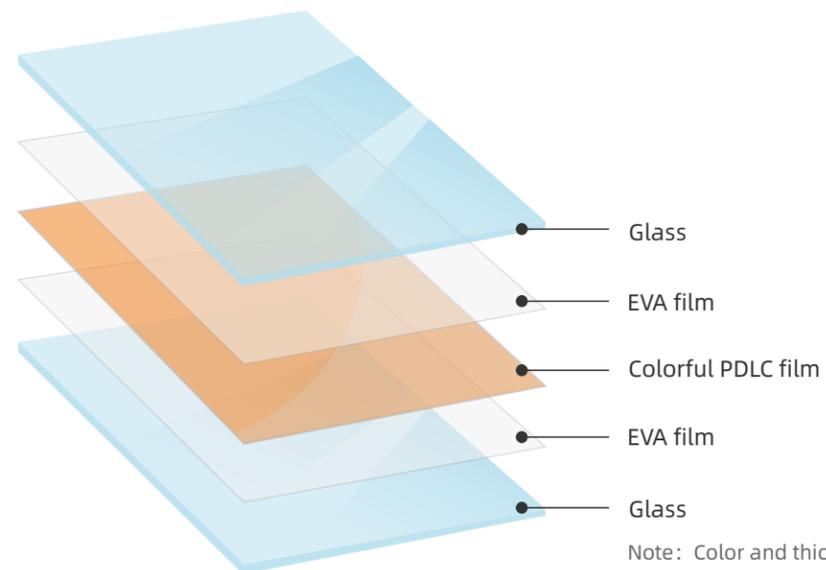
FILMBASE Smart facade glass

| 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 ² | 5w/m ² | 5w/m ² |
| Compatible with | Eva | Eva | Eva |
| Biggest size | 1800x3600mm | 1800x3600mm | 1800x3600mm |
| 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.

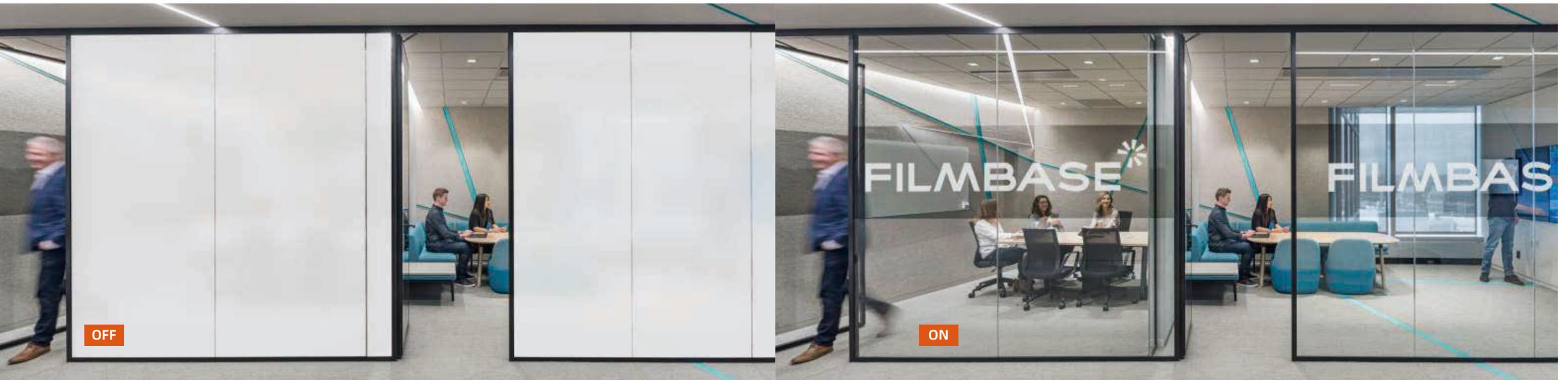


Note: Color and thickness do not represent the actual situation, only for the convenience of illustration.

Product Parameters

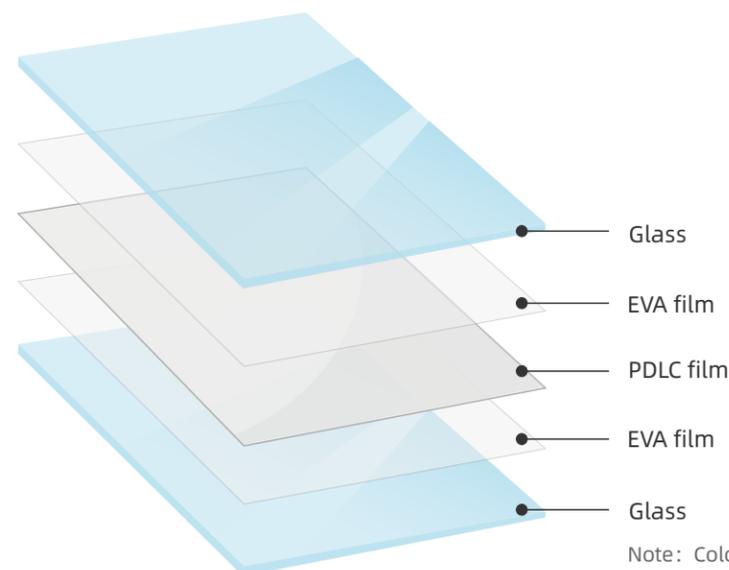
FILMBASE Art glass

| | Gray | Black | Blue | Green | Orange | Red |
|-------------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| 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 ² | 5w/m ² | 5w/m ² | 5w/m ² | 5w/m ² | 5w/m ² |
| 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.

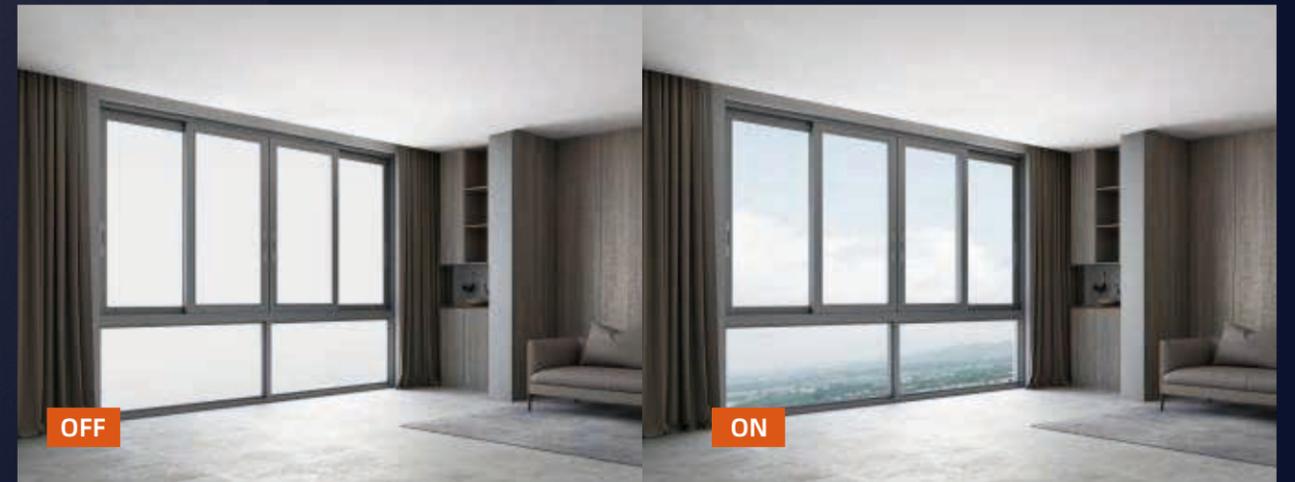
Product Parameters

FILMBASE Limited edition glass

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

SMART FILM

Polymer Dispersed Liquid Crystal 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.

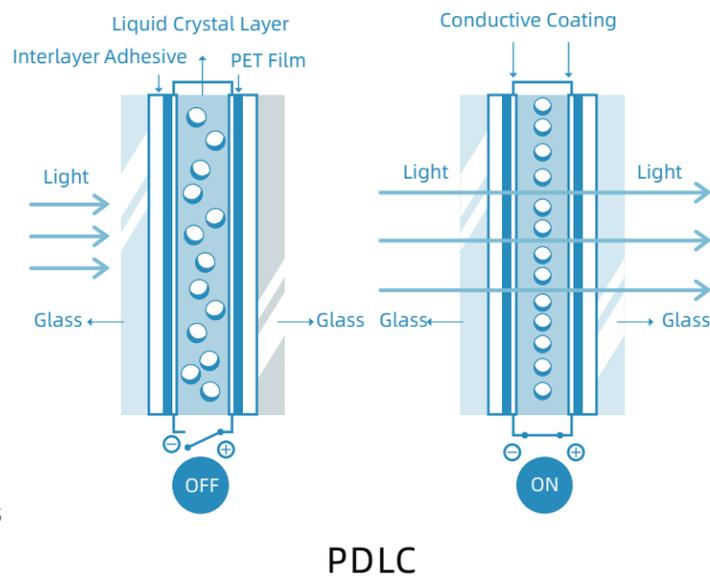


About Smart Film

Smart film is a new type of electronic light control product. The electronically controlled smart film is 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 smart film is in an opaque state.

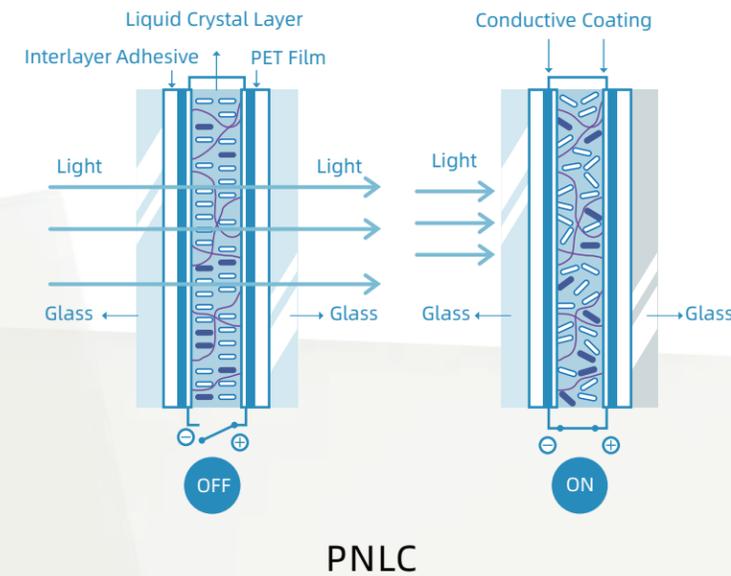
When an alternating current is applied, the liquid crystal molecules are arranged in an orderly manner, at which point the electronically controlled dimming film changes from an opaque state (OFF) to a transparent state (ON).



PNLC film different from normal PDLC smart film, the working principle of PNLC film is opaque-power on, clear power off.

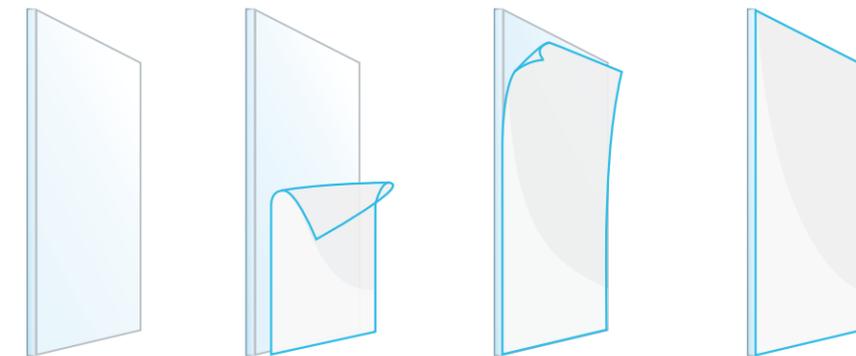
The electric field enables a rapid transition from the ON state to the OFF state and from the OFF state to the ON state.

Smart film is usually applied to the surface of the glass or laminated between the glass layers, making the otherwise transparent glass, more possible.

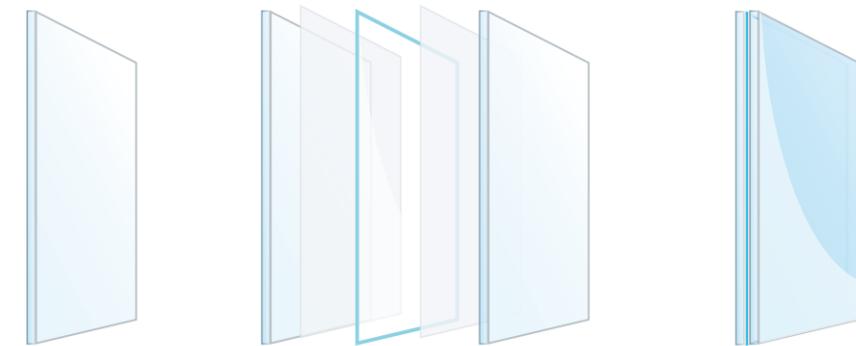


Two types Smart Film

There are two types of Smart films, Self-adhesive Smart film and Laminated Smart film.



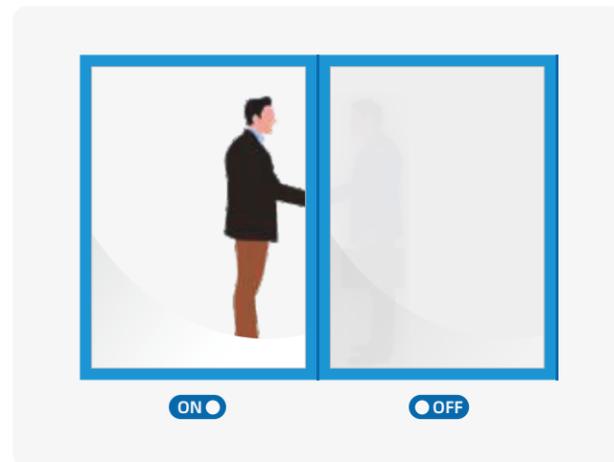
Self-adhesive Smart film



Laminated Smart film

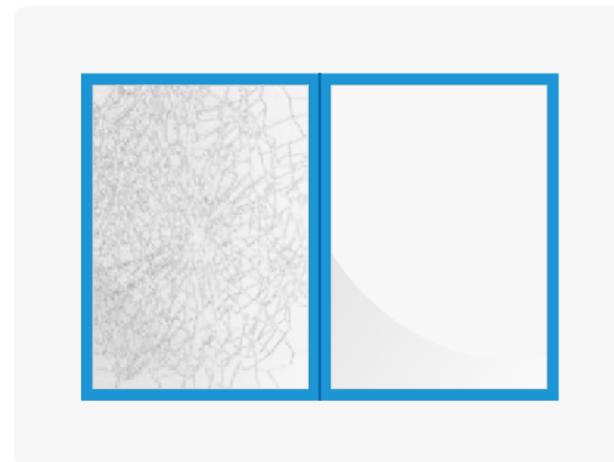
Characteristics

Smart Film



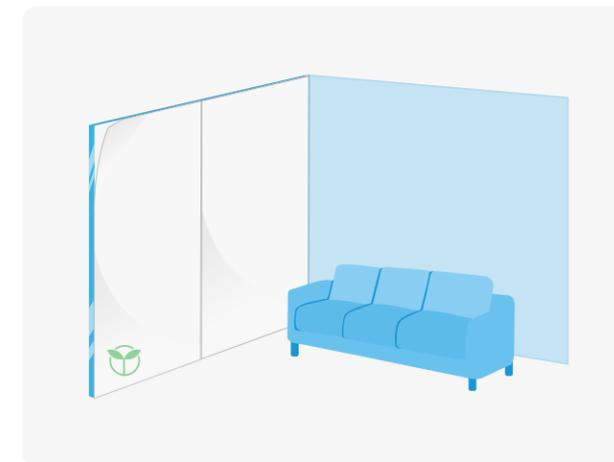
Privacy protection

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.



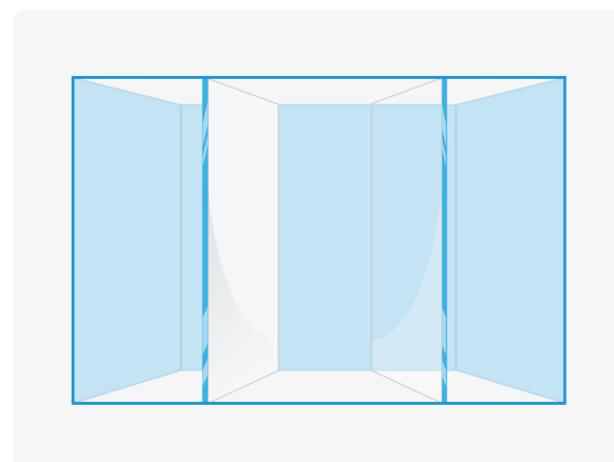
Environmental protection

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



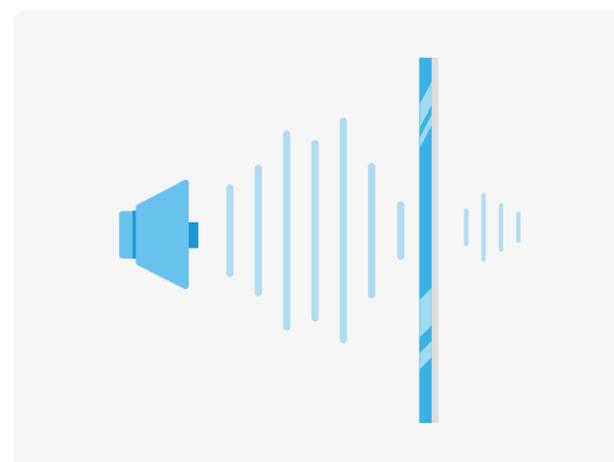
Heat-resistant and anti-scratch

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.



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.



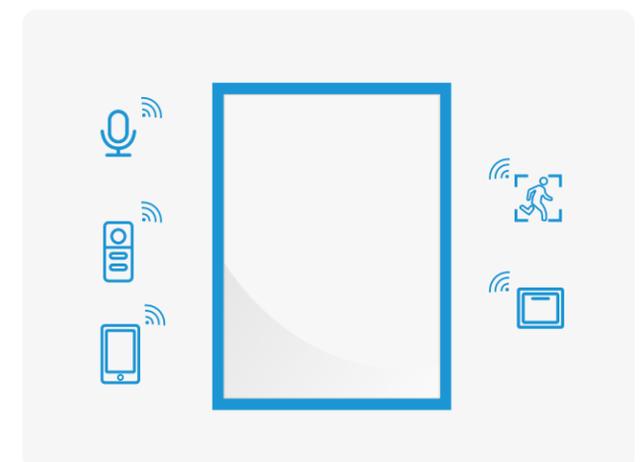
Anti-noise

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



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

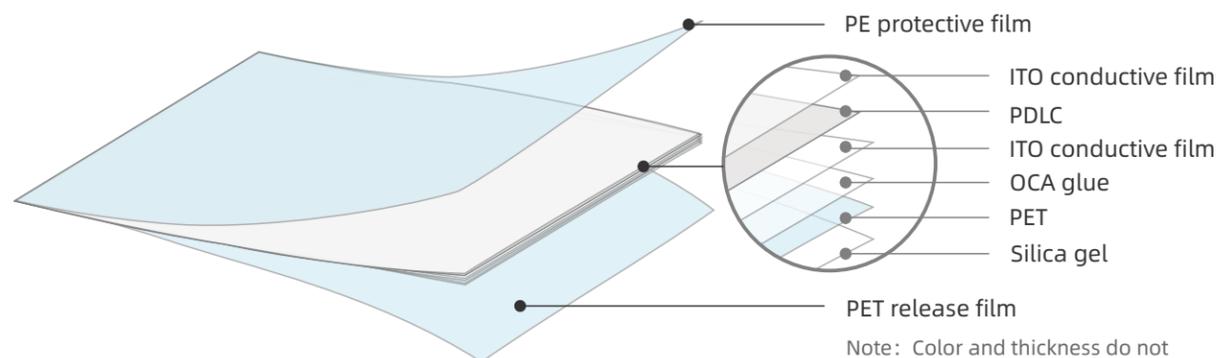
In order to meet your various needs, you can choose your preferred control method: remote control, wired control, infrared induction, voice control, mobile application, etc. In addition, an FM transformer can be selected to gradually change the film.



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

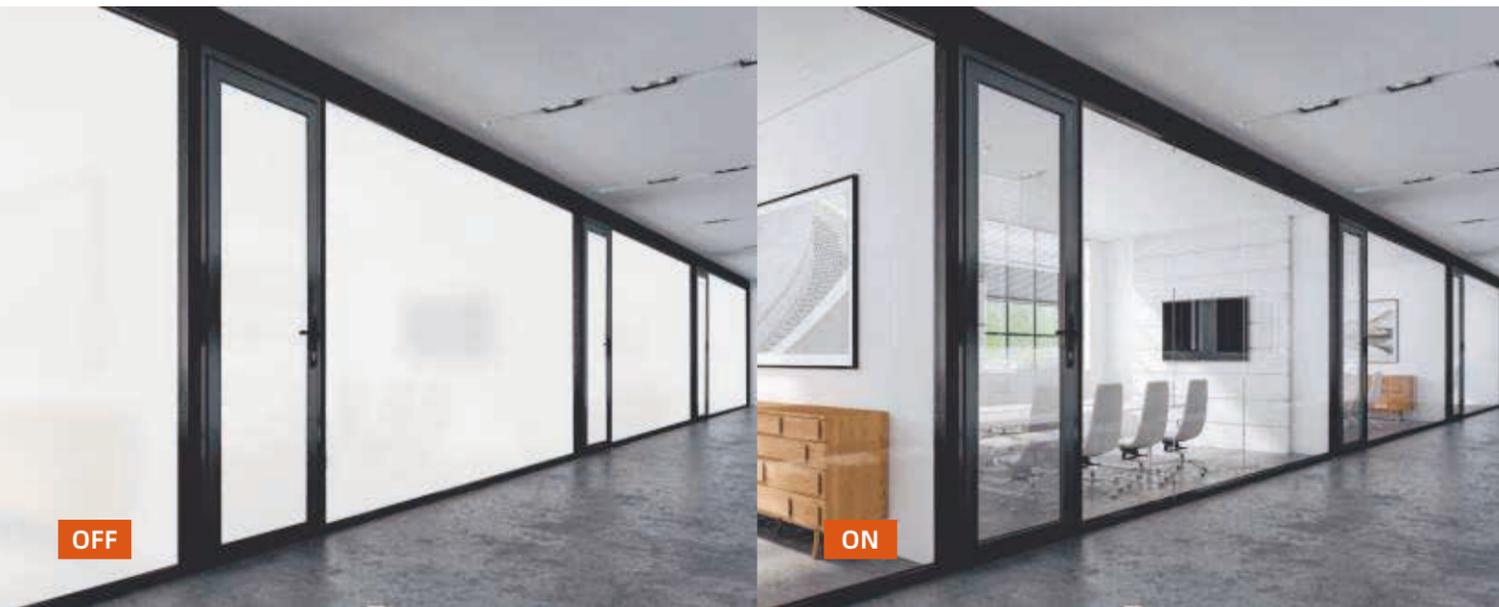
| Items | ON/OFF | | Test Methods/Standards |
|------------------------|--------|---------------------|---|
| Operating voltage | ON | 60V | Multimeter/ Voltage Regulator,WGW |
| Power consumption | ON | ≤ 5W/m ² | Multi-parameter electric measuring instrument |
| Viewing angle | ON | ≥ 160° | Visual Inspection |
| Uv blocking rate | OFF | ≥ 99% | Optical transmittance tester |
| Infrared blocking rate | OFF | ≥ 60% | |
| Response time | OFF→ON | ≤ 30 ms | Liquid crystal parameter integrated tester |
| | ON→OFF | ≤ 200 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 |

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

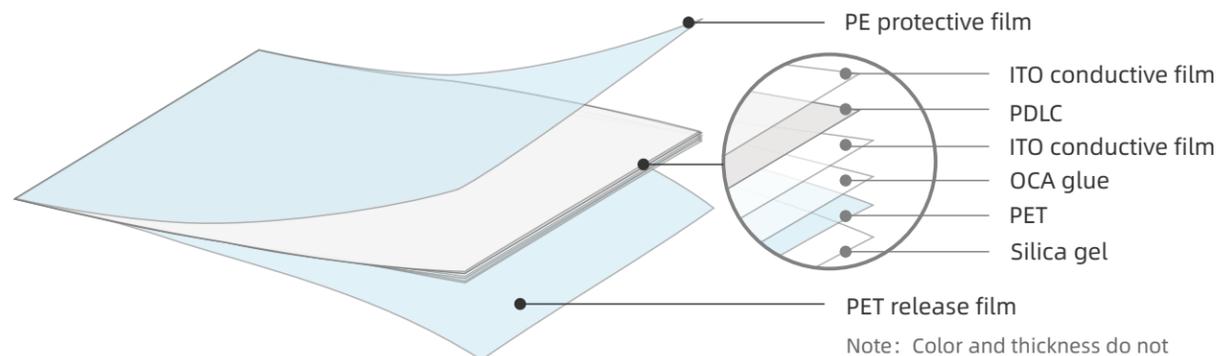
| Items | ON/OFF | Full light tester | | | Parallel light tester | |
|---------------------|--------|-------------------|--------------------------|---------|-----------------------|----------------|
| | | Haze | Full light transmittance | b value | 45° light | Parallel light |
| Adhesive PDLC film | OFF | 94.5 | 85.0 | 7.57 | / | / |
| | ON | 3.00 | 91.0 | 5.29 | 60.0 | 88.0 |
| Laminated PDLC film | OFF | 94.5 | 85.0 | 6.79 | / | / |
| | ON | 3.00 | 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 | ≤ 5W/m ² | Multi-parameter electric measuring instrument |
| Viewing angle | ON | ≥ 160° | Visual Inspection |
| Uv blocking rate | OFF | ≥ 99% | Optical transmittance tester |
| Infrared blocking rate | OFF | ≥ 60% | |
| Response time | OFF→ON | ≤ 30 ms | Liquid crystal parameter integrated tester |
| | ON→OFF | ≤ 200 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 |

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

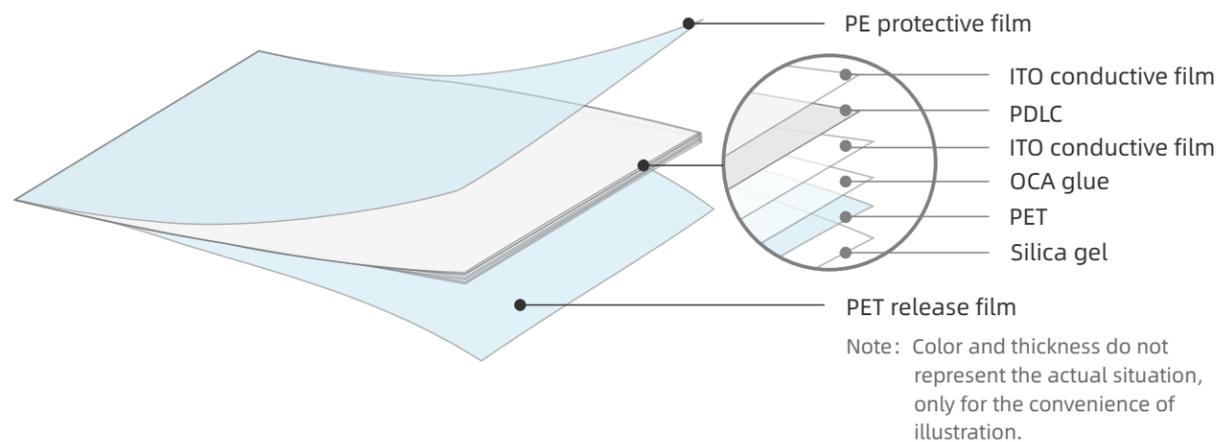
FILMBASE 087

| 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 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.



Size

FILMBASE Warrior

| Items | | | |
|--------------------|-----------------|----------------|--------------------|
| Adhesive PDLC 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

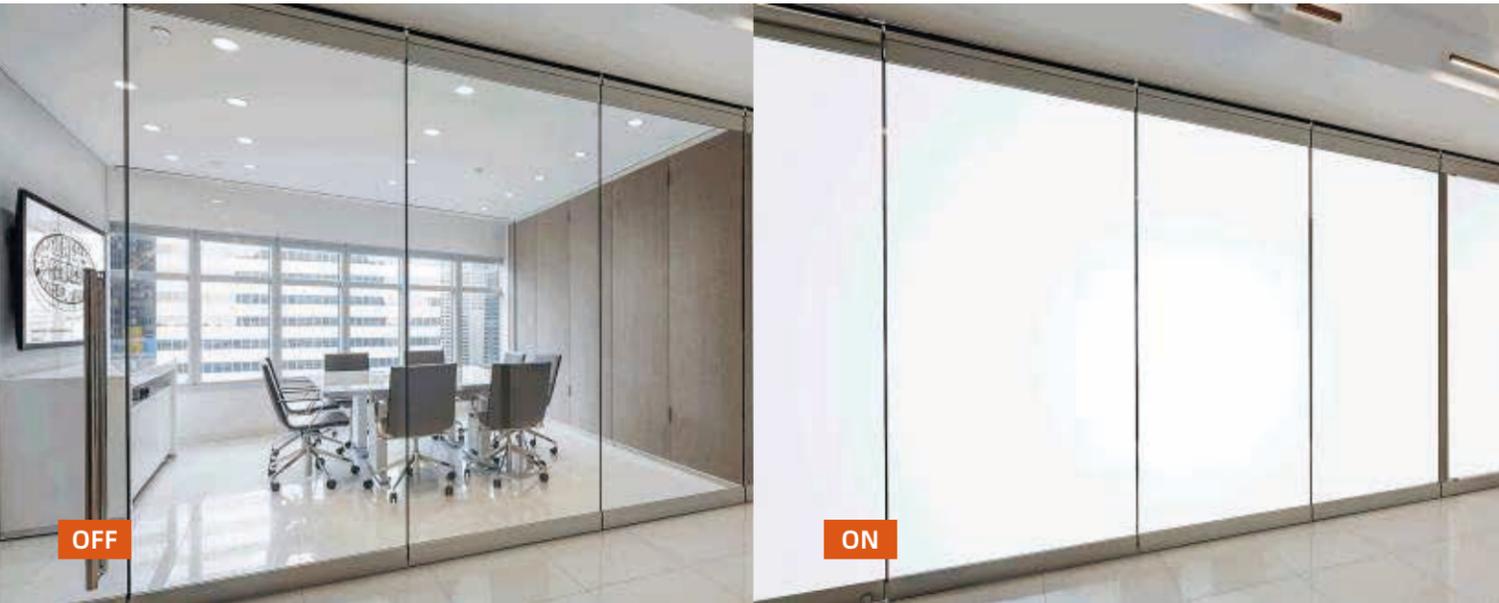
| Items | ON/OFF | | Test Methods/Standards |
|------------------------|--------|---------------------|---|
| Operating voltage | ON | 60V | Multimeter/ Voltage Regulator,WGW |
| Power consumption | ON | ≤ 5W/m ² | Multi-parameter electric measuring instrument |
| Viewing angle | ON | ≥ 160° | Visual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

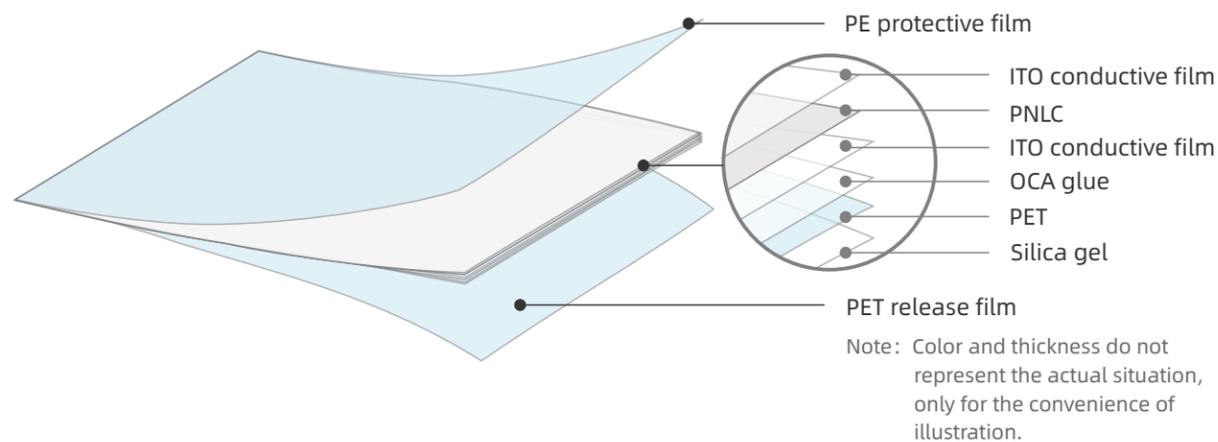
FILMBASE Warrior

| Items | ON/OFF | Full light tester | | | Parallel light tester | |
|-------|--------|-------------------|--------------------------|---------|-----------------------|----------------|
| | | 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 existed glass.



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

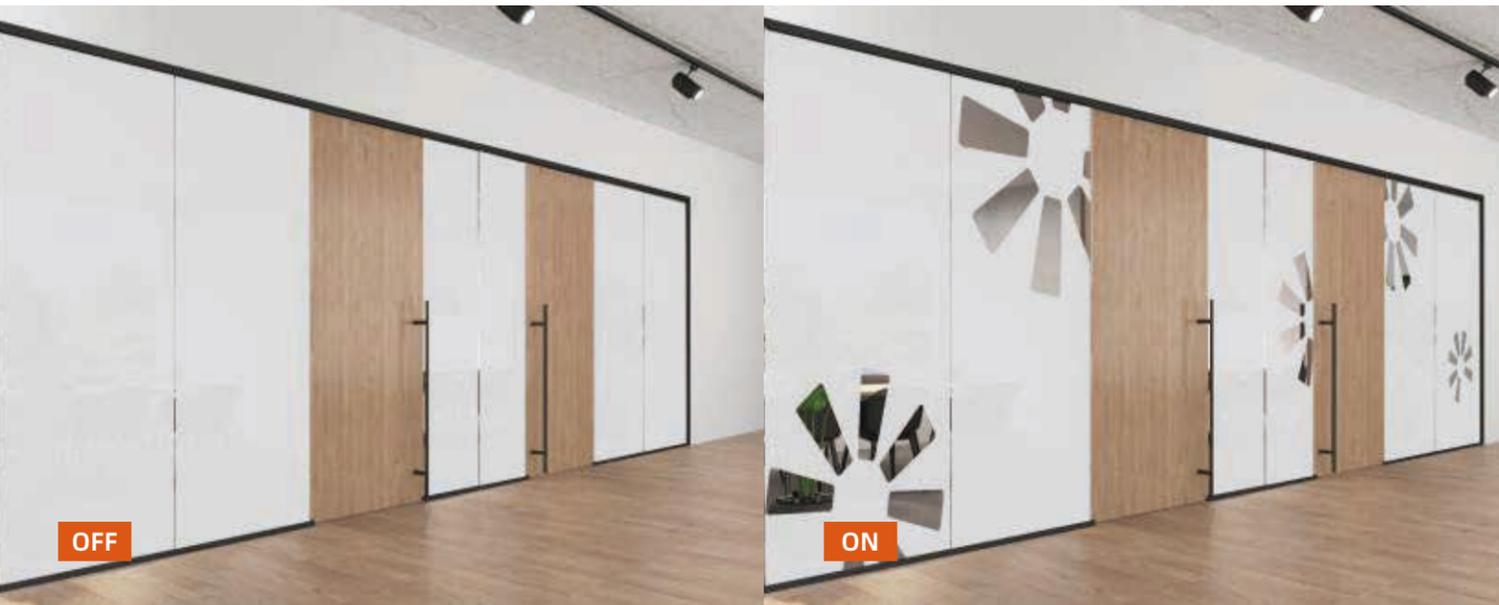
| Items | ON/OFF | | Test Methods/Standards |
|------------------------|--------|------------------------|---|
| Operating voltage | ON | 60V | Multimeter/ Voltage Regulator,WGW |
| Power consumption | ON | avg 4-6/m ² | Multi-parameter electric measuring instrument |
| Viewing angle | OFF | ≥ 160°+1 | 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 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

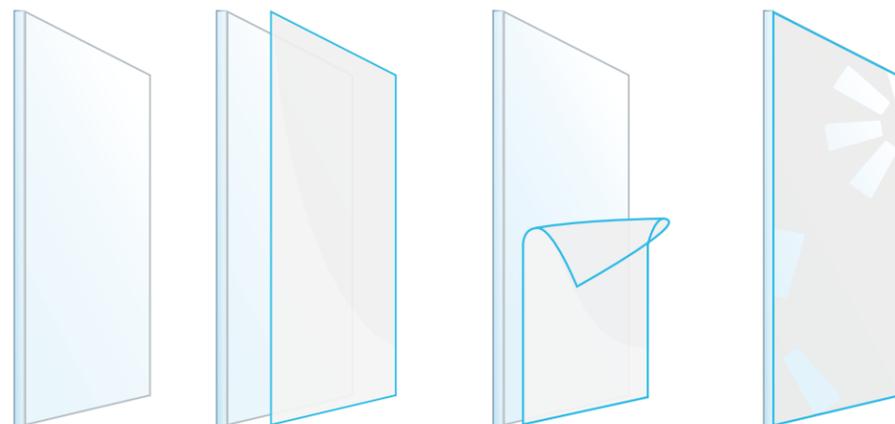
FILMBASE Reverse

| 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, slogan, products, art paintings, pictures etc. All contents can be switchable automatically. Can be sandwiched into the glass or Adhesive onto the etched glass to click to privacy.



Size

FILMBASE Limited edition

| Items | | | |
|---------------------|-----------------|--------|----------------|
| Adhesive PDLC film | Total Thickness | | 0.47mm |
| | Cut to Sheet | Width | less than 1500 |
| | | Length | less than 1500 |
| Laminated PDLC film | Total Thickness | | 0.38mm |
| | Cut to Sheet | Width | less than 1500 |
| | | Length | less than 1500 |

Optical Parameter

FILMBASE Limited edition

| Items | ON/OFF | | Test Methods/Standards |
|------------------------|--------|---------------------|---|
| Operating voltage | ON | 60V | Multimeter/ Voltage Regulator, WGW |
| Power consumption | ON | ≤ 5W/m ² | Multi-parameter electric measuring instrument |
| Viewing angle | ON | ≥ 160° | Visual Inspection |
| Uv blocking rate | OFF | ≥ 99% | Optical transmittance tester |
| Infrared blocking rate | OFF | ≥ 60% | |
| Response time | OFF→ON | ≤ 30 ms | Liquid crystal parameter integrated tester |
| | ON→OFF | ≤ 200 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 |

Product Transparency / Haze

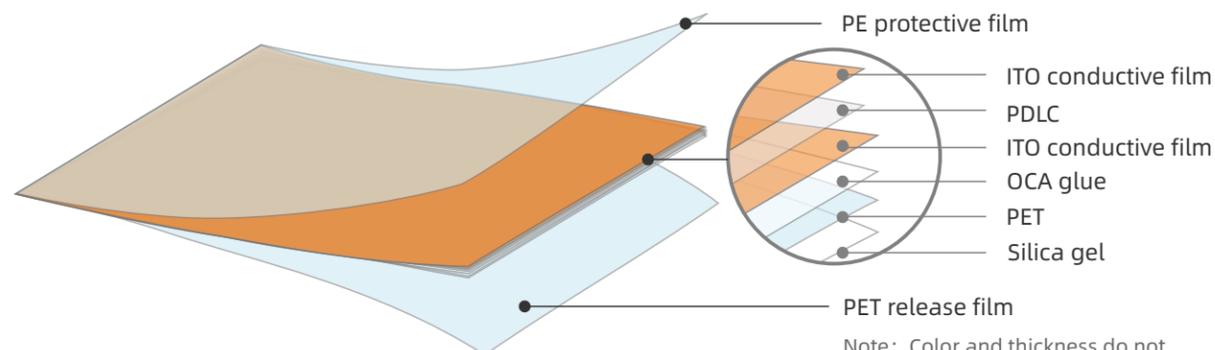
FILMBASE Limited edition

| 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.

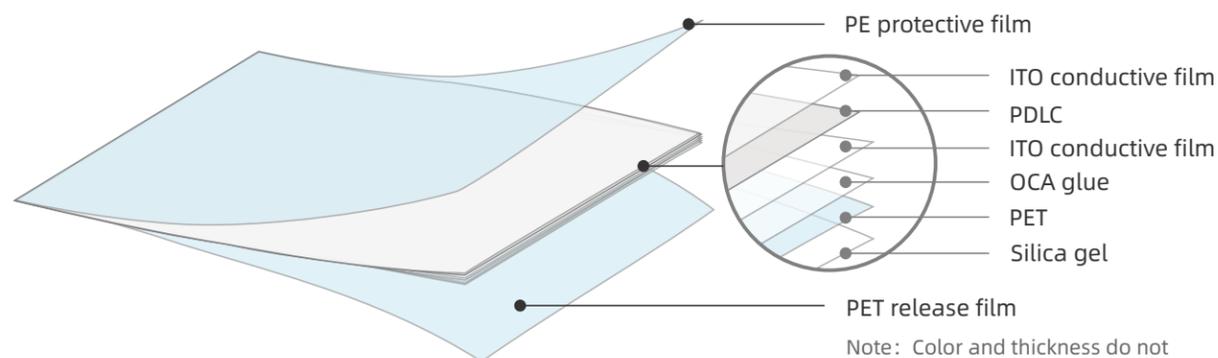
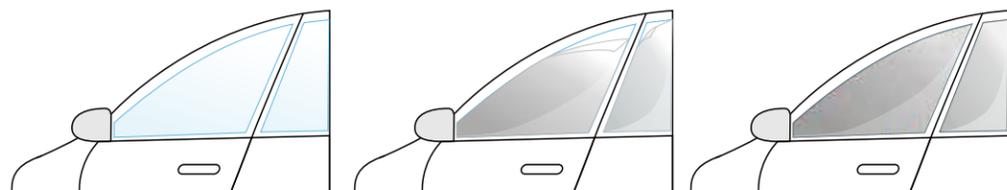
| Size | | FILMBASE Colorful | |
|--|-----------------|-------------------|--------------------|
| Gray adhesive PDLC film | Total Thickness | 0.47mm | |
| | Cut to Sheet | Width | 100-1800(mm) |
| | | Length | 100-50000(mm) |
| | Roll | Width | 1200,1500,1800(mm) |
| | | Length | 30meters /50meters |
| | 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 | ≤ 5W/m ² | Multi-parameter electric measuring instrument |
| Viewing angle | ON | ≥ 160° | Visual Inspection |
| Uv blocking rate | OFF | ≥ 99% | Optical transmittance tester |
| Infrared blocking rate | OFF | ≥ 60% | |
| Response time | OFF→ON | ≤ 30 ms | Liquid crystal parameter integrated tester |
| | ON→OFF | ≤ 200 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 |



FILMBASE Auto Smart Film

Auto smart film is a smart film product developed by our company on the basis of the first generation of smart film, using special substrates and wide temperature liquid crystal materials, and specially developed for automotive use conditions.



PET release film

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

Product Size

Auto smart film

| Items | | |
|-----------|---|------------------------------------|
| Thickness | Total thickness (without protective film) | 0.13mm |
| | PDLC | 0.12mm |
| | Silica gel | 0.01mm |
| | PE protective film | 130μm |
| | PET release film | 50μm |
| Sheet | Width | 1200,1500 ¹ *mm |
| | Length | According to customer requirements |
| Roll | Width | 1250,1500 ² *mm |
| | Length | ≤ 50m/Roll |
| Roll tube | Inner Diameter | 6 inches |

Note*: This width is the actual size, the width of the calculated area is 1200,1500, mm

Photoelectric Performance

Auto smart film

| Items | ON/OFF | | Test Methods/Standards |
|------------------------|--------|--------------------------|---|
| Operating voltage | ON | 60V | Multimeter/ Voltage Regulator,WGW |
| Power consumption | ON | ≤ 5W/m ² | Multi-parameter electric measuring instrument |
| Viewing angle | ON | ≥ 160° | Visual Inspection |
| Uv blocking rate | OFF | ≥ 99% | Optical transmittance tester |
| Infrared blocking rate | OFF | ≥ 82% | |
| Response time | OFF→ON | ≤ 30ms | Liquid crystal parameter integrated tester |
| | ON→OFF | ≤ 200ms | |
| Operating temperature | -- | -30°C ~ 95°C | constant temperature and humidity testing machine |
| Lifetime | -- | 10 -15 years | GB18910.5-2008 |
| Switching times | -- | ≥ 100 ten thousand Times | Self-made on/off tester |

Auto smart film is driven by AC power, gray 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

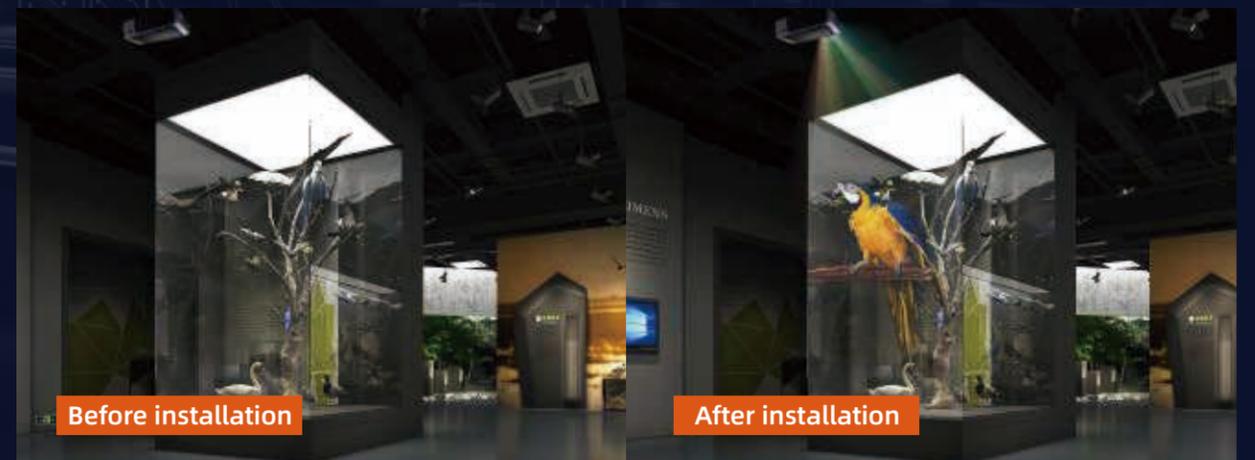
Auto smart film

| Operating ambient temperature | 透度 | Full light tester | | | Parallel light tester | | |
|-------------------------------|----|-------------------|------|--------------------------|-----------------------|-----------|----------------|
| | | ON/OFF | Haze | Full light transmittance | b value | 45° light | Parallel light |
| / | / | OFF | 94.2 | 51.19 | 5.24 | / | / |
| | | ON | 2.94 | 56.43 | 3.2 | 38.4 | 55.26 |

UTD^{AR} FILM

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

5

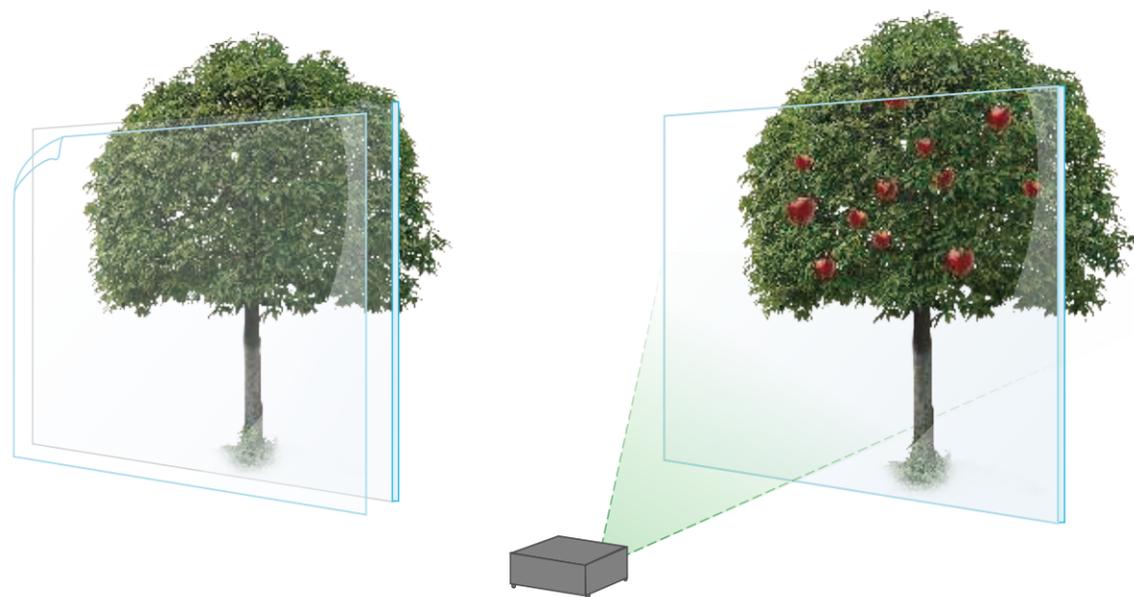


About UTD^{AR} film

Filmbase UTD^{AR} 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^{AR} 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 Filmbase 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.

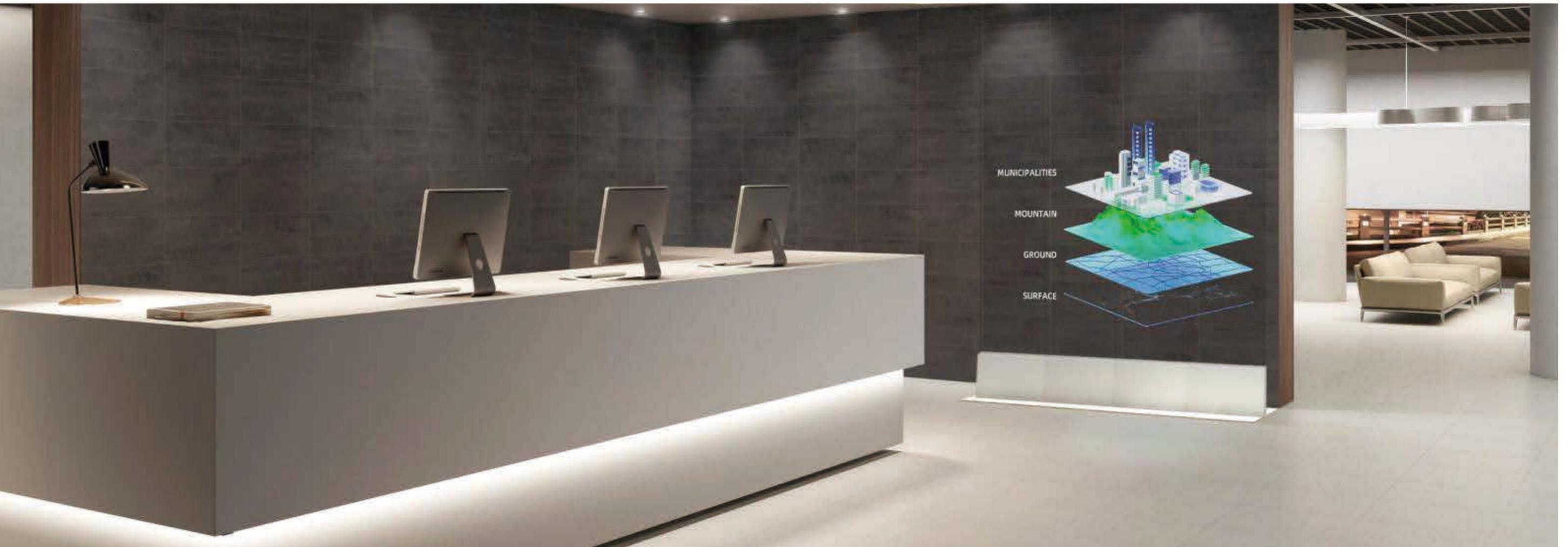
Product Advantages

- 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 |

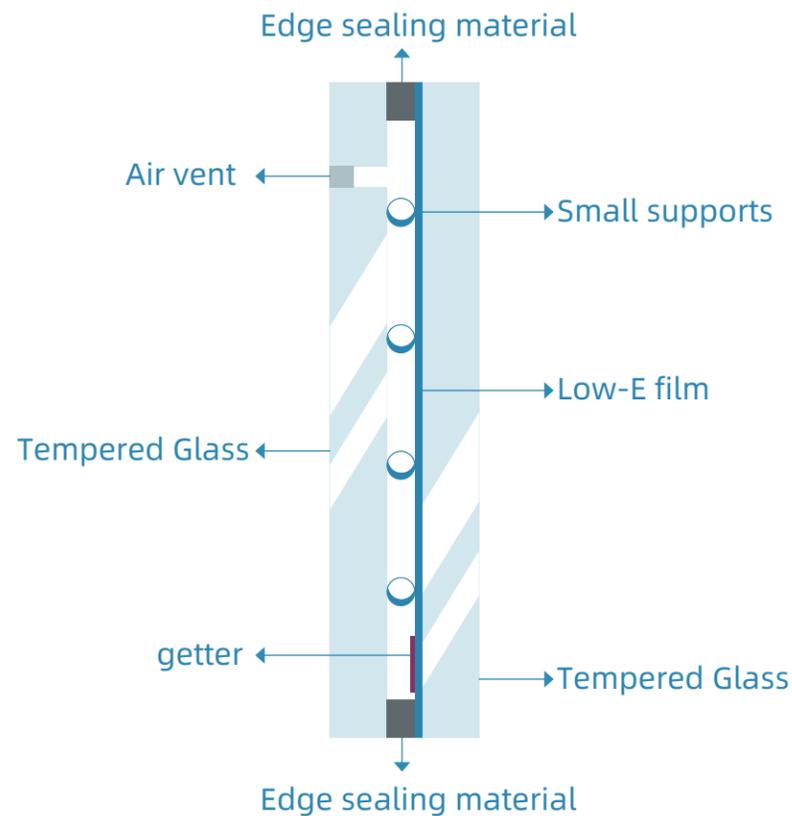
VC-GLASS

Filmbase VC glass, known as a green building material, not only provides a more livable environment and space for humans but is also extremely environmentally friendly, energy-saving and sustainable. As a cutting-edge green building material, Vc glass is gradually making its mark in the construction industry. Its unique vacuum + chip structure design effectively blocks heat transfer, significantly enhancing the insulation and heat preservation performance of buildings and advanced industrial products. It not only greatly reduces building energy consumption and decreases reliance on air conditioning and heating, but also effectively blocks noise. No condensation occurs when the indoor and outdoor temperature difference is over 70°C, and it maintains a good visual transparency effect even in an external environment of minus 40 degrees Celsius, providing residents with a more peaceful and comfortable environment.

About VC Glass

Filmbase VC-Glass has the characteristics of excellent thermal insulation, sound insulation, noise reduction, anti-condensation performance, high wind pressure strength, long service life and so on.

At present, Filmbase VC-Glass has excellent performance in improving energy efficiency, improving the comfort of living environment and energy saving, and is the ideal choice for modern building and home improvement.



Product Advantages



More secure

The stress at any point on the surface of the product exceeds **90MPa**, The wind pressure resistance strength of Filmbase VC-Glass reaches **+7200Pa**.



Size worry free

The maximum size of a single product can reach **1.5x2.5** meters.



Sound insulation

The sound insulation and noise reduction performance of Filmbase VC-Glass is based on the fact that sound does not propagate under vacuum conditions. The weighted sound insulation reaches **39 dB**.



Thermal insulation

Its heat transfer coefficient (U value) is as low as **0.4 W/m²·K**, significantly reduces energy loss and building energy consumption. The thermal insulation effect is more than 1 meter thick brick wall, is **4~6** times of ordinary insulating glass.



Anti condensation

There is no gas inside the Filmbase VC-Glass, and even if the outdoor temperature reaches minus 40°C it will not condense. It has passed RoHS certification and can be fully applied to the high-end home appliance market worldwide.



Various angles

Filmbase VC-Glass is not affected by the change of gas thermal conductivity when placed horizontally.



Long service life

All-glass material seal, internal plus getter and Low-E film, as long as the manufacturing process and equipment advanced, Filmbase VC-Glass service life is much longer than the organic material sealed hollow glass.



Be even quality

We have passed the ISO9001:2015 quality system certification and have undergone rigorous system and process audits by Bosch Home Appliances to ensure the reliable quality of every piece of Filmbase VC-Glass. We are also insured by PICC quality assurance insurance.

VC[™] —Glass Heat insulation Performance

Based on the principle of vacuum bottle, its thermal insulation performance is far better than ordinary insulating glass, can effectively reduce the heat transfer caused by temperature difference.

Can reach **0.27**
Solar heat gain coefficient(SHGC)

Can reach **0.66**
Sunshade coefficient(Sc)

 **Save 50%**
Save 50% on air conditioning costs

 **Block UV 99%**
Resistance to UV rays reaches 99%

 **Block heat 95%**
Thermal insulation performance reaches 95%

 **Reach 39dB**
1.5 times that of ordinary insulating glass

VC-Glass **Sound Insulation Performance**

The sound insulation performance of Filmbase VC-Glass is better than that of insulating glass, especially in the low frequency band, its sound insulation performance is very outstanding. vacuum layer as a sound insulation barrier, although slightly decreased due to the presence of support, but still better than ordinary glass. semi-tempered glass support is reduced and further improves sound insulation.

- The weighted sound insulation reaches 39dB, which is 1.5 times that of ordinary insulating glass, and the effect is outstanding.
- Tailored the best product solution based on the characteristics of different noise spectra.
- Patent mute gain technology further enhances sound insulation effect.

Light weight and elegant, showcasing industrial aesthetics.

No condensation occurs when the temperature difference between the inside and outside exceeds 70 °C, away from the problem of condensation.

Restore the original appearance of high-end winter curtain walls and transparent display windows.

VC[™] —Glass Anti condensation Performance

Because the heat transfer coefficient of Filmbase VC-Glass is much smaller than that of insulating glass, can effectively prevent the environmental heat transfer to the interior of the refrigerator, reduce the start-up times of the compressor, reduce energy consumption. At the same time, does not need to paste electric thermal film on the glass surface, further reduces energy consumption.

Product parameters

| Product | U value W/(m ² ·K) | Visible Light Transmittance | Volume isolation | Regular size | Biggest size |
|-------------|----------------------------------|--------------------------------|---------------------|--------------|--------------|
| 5TL+0.3V+5T | 0.50 | 75% | 39dB | 1500x2000mm | 2000x3000mm |

*5T represents 5mm thick white glass; 0.3V represents a 0.3mm thick vacuum layer; 5TL represents 5mm thick Low-e glass; 9A represents a 9mm thick hollow layer; 0.76P represents a 0.76mm thick adhesive layer.

FLYING DISPLAY

It helps event organizers create influence and commercial value.

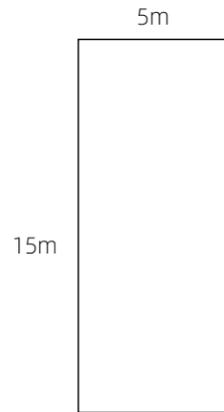


About Flying Display

Filmbase Flying display is an innovative display which designed for Low-altitude performances and aerial media, which adopts ultra-light, thin and transparent LED display technology, 250G/SQM and 2mm thickness , over 95% transparency, allowing the displayed content to blend seamlessly with the environment and present a realistic and dazzling visual effect.

Size, Guinness Book of Records

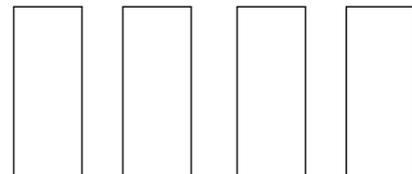
Standard size is 5m by 15 m, breaking the existing size record of flying screens in the market and is currently applying for the Guinness World Record. It also supports "many-screen linkage". The clarity is dozens of times higher than that of traditional building lighting shows and drone shows, and it can also present high resolution 3D effects.



One drone model

Applications

It can be used for aerial advertising, breaking through spatial limitations and enhancing the exposure and influence of advertisements; suitable for brand display and event promotion, attracting audiences and strengthening brand image during product launches and other events; it is often used in light and shadow shows and cultural exhibitions, combining light and shadow with cultural content during festivals and artistic performances, providing a stunning audio-visual experience.



Formation drone mode



About Hanging LED Film

Filmbase Hanging LED Film is an innovative new display material that combines transparent display, intelligent control and energy efficient technology. Its high light transmittance (up to 90%) ensures natural lighting while realizing high-definition dynamic displays with stunning visual effects. With ultra-thin (less than 2mm) structure design.

The Hanging LED Film can be flexibly hung or attached to the glass surface, which is suitable for all kinds of architectural curtain walls and commercial display spaces. Supporting cloud-based intelligent control, it provides efficient and convenient solutions for advertising media, commercial retail, intelligent transportation, city lighting and other fields.

Its low energy consumption LED technology complies with green building standards, contributes to sustainable development, and comprehensively empowers intelligent space applications.



Now and future latest facade



HD +Up to 90% transparency



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



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

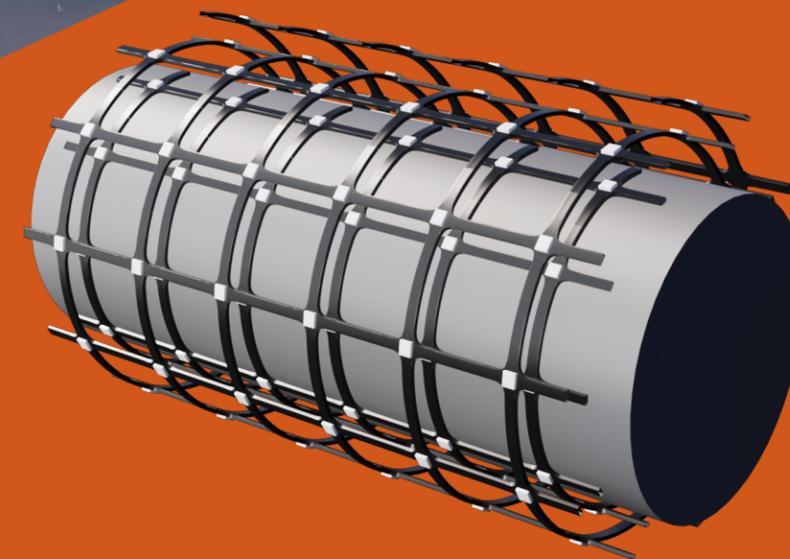


About Flying Display

With the rapid development of technology, visual displays are constantly breaking through the traditional boundaries, bringing more innovations and possibilities. Filmbase Flying display, is an innovative leap of high-definition transparent display technology into the air, which presents art, culture, grand events, figures, economy, creativity, light and shadow shows, etc. in the air, as if transcending time and space, bringing science fiction and fantasy to the public's view, providing audiences with an unprecedentedly stunning experience. Come and enjoy a unique visual feast.

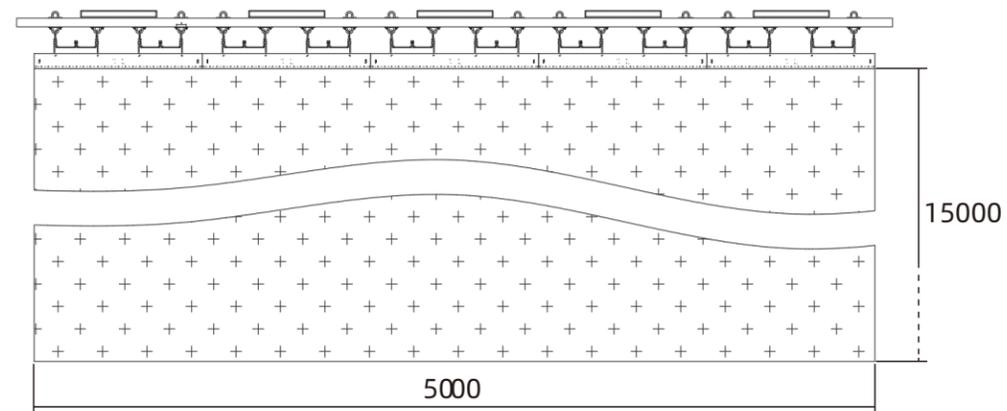
Filmbase flying display was born for the low-altitude economy. It is an innovative technology that combines virtual and real elements, enabling the originally static night sky to achieve visually unlimited possibilities. By integrating high-definition transparent display technology with Drone, it projects transparent high-definition display membranes into the air through drones, hot air balloons or hanging from buildings. As the lightest, thinnest, largest and highest in clarity transparent display, compared with traditional ground displays, Filmbase flying display not only can achieve super-large area displays but also create more stunning and flexible visual effects in the air, bringing audiences an unprecedented visual experience. It helps event organizers create influence and commercial value.

Use expanded state

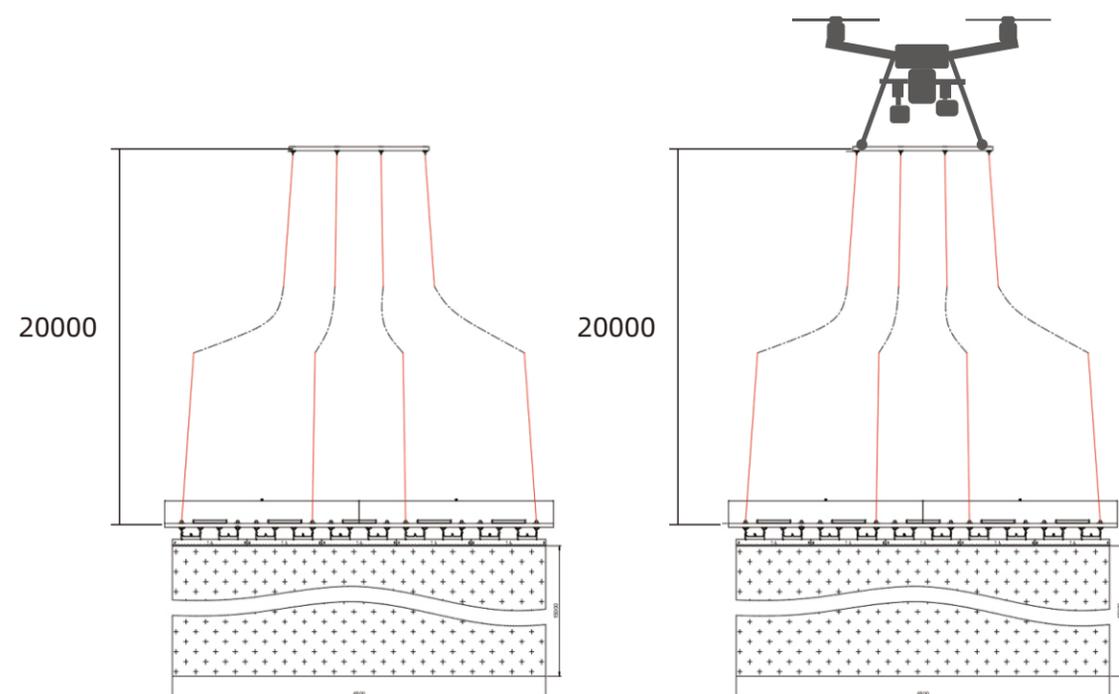


Roll up status

5 meters wide, 15 meters high.



Lifting node 20 meters from the screen.



| Name | Project | Parameters |
|---------------------------------|--|-------------------------------------|
| LED screen | Screen size | W4.8*H15m |
| | Resolving Power | P40 |
| | Spacing | 40*40mm |
| | Pixel | 300,000 dots |
| | Input Voltage | DC24V |
| | Input Type | Lithium battery |
| | Lamp Bead Packaging | 5050 |
| | Drive Mode | Static state |
| | Refresh Frequency | 3840/1920Hz |
| | Chip Structure | RGB+IC |
| | System Support | Novastar |
| | Operation Method | Phone, iPad |
| | Media Format | Video; images |
| | Video Format | AVI; MP4; WMV; MOV |
| Image Format | JPG; PNG; GIF; BMP | |
| Power battery | Battery name | Ternary lithium battery |
| | Battery capacity | 10.4Ah |
| | Use group | 5 groups |
| | Cell model | 18650 |
| | Charging voltage | 25.2V |
| Unmanned aerial vehicle | Nominal voltage | 22.22V |
| | Expand size | 3140*2980*802 |
| | Wing folded size | 1140*850*940 |
| | Whole machine weight (including battery) | 48.4±0.5 (kg) |
| | Rated takeoff weight | 98.4±0.5 (kg) |
| | Maximum takeoff weight | 103.4±0.5 (kg) |
| | Idle hover time (min) | 22 (30000mAh+takeoff weight 48.4kg) |
| | Full load hover time (min) | 7 (30000mAh+takeoff weight 48.4kg) |
| | Suggest height limit | 20m |
| | Suggested speed limit | 10m |
| Suggested distance limit | 1500m | |
| Image Maximum pitch angleFormat | 15° | |
| Windproof grade | < Level 3 | |

Self Electricity LED Film

- Zero energy consumption
- Integrated chip
- Integrated power generation and light emission

Widely used in glass curtain walls, advertising media, landscape lighting, commercial displays, functional signage, etc.

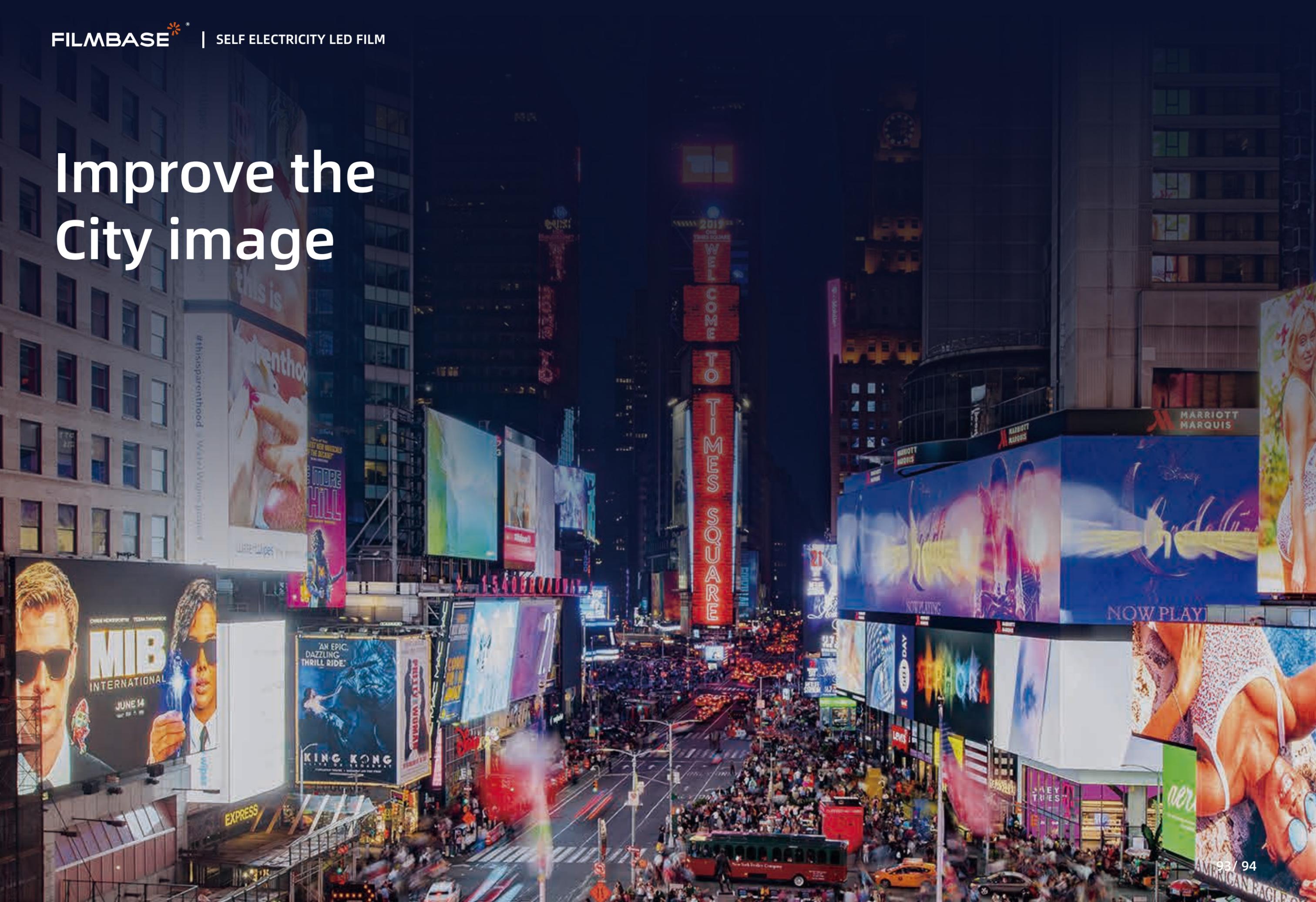


What is the first impression of a city manifest?

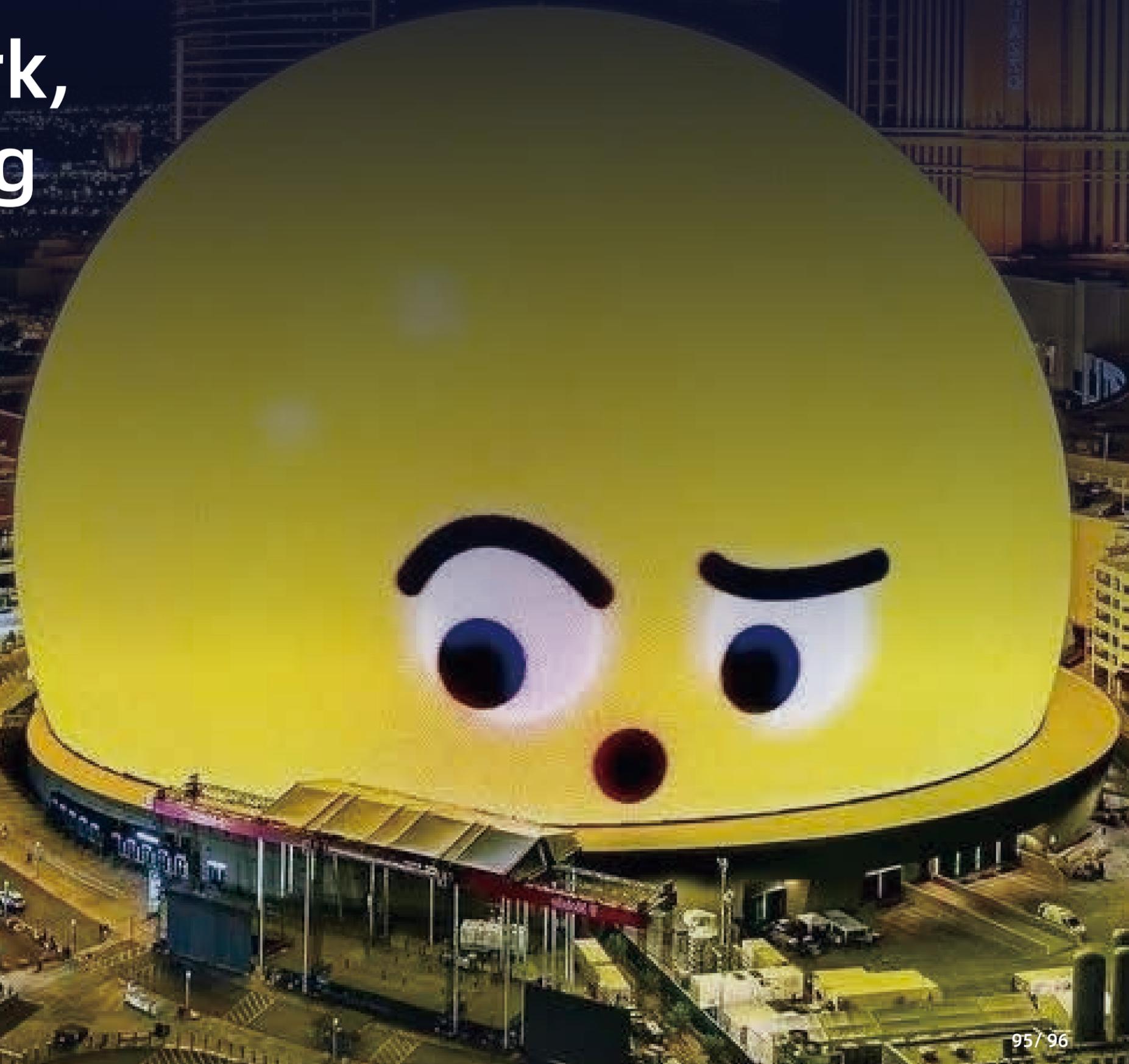
Vision



Improve the City image



Make a landmark, Improve building identification



Turning Architecture into a Media



Let the Building Speaking





Self Electricity LED Film

Self Electricity LED Film is used YGS-SL5050, Filmbase independent research and development of a staircase lighting display unit, built-in lithium battery, solar self-powered mode, single bus signal transmission, to achieve arbitrary programming.

The single weight of this display unit is about 20g, using strong weather-resistant adhesive bonded to the building surface, without the need to deepen the architectural drawings in advance, without the need for electrical design and electrical construction, energy saving and environmentally friendly, suitable for all kinds of video information on the outside surface of the building propaganda, commercial advertisements, brightening the landscape, and so on.

The biggest difference from traditional display screen is that it **does not require electricity consumption!**

0 Energy Consumption High Brightness

Solar charging, trickle charging; Optical brightening technology, no change in brightness but more energy efficient.

Safer batteries

Adopts wide temperature battery, battery overcharge and overdischarge management.

High visual comfort

IC, chip, control all in-one technology, bus protocol, single-point single control, static drive, no strobe.

Energy range

Charge 1 hour, standby 7 hours. (Conditions: direct angle, illumination 1000W/m²)

Certified Quality

Designed with reference to national safety and EMC regulations.

Easy to install

No need to deepen architectural drawings in advance, no need for electrical design and construction, energy-saving and environmentally friendly.

Product Parameters

Self Electricity LED Film

| | |
|---------------------|--|
| Pitch | P40 |
| Pixel pitch | 40*40mm |
| Pixel | 600 dots |
| Lamp Bead Packaging | 5050 |
| Display Grayscale | 65536 levels |
| Refresh Frequency | 3840Hz |
| Chip Structure | RGB+IC |
| System Support | Novastar |
| Operation Method | Mobile, tablet, computer, remote control |

Electrical Performance

FILMBASE YGS-SL5050

| Project | Test condition | Minimum | Typical | Maximum | Unit |
|---------------------------|---|---------|---------|---------|------|
| Input Voltage | Load LED/Battery At 25°C | 4.0 | 5.0 | 6.0 | VDC |
| Charging Voltage | Load Battery At 25°C | 3.0 | / | 4.25 | VAC |
| Charging Current | Load Battery At 1000w/m ² , 25°C | / | / | 35 | mA |
| Standby power consumption | Load Nc Vin12V At 25°C | / | / | 5.0 | mW |
| LED current | Load RGB-100% At 25°C | 2.2 | / | 7.8 | mA |
| Battery capacity | At 25°C | 250 | / | / | mAh |
| Battery Discharge | At -20°C | / | 50 | / | mA |
| Battery charging | At -20°C | / | 50 | / | mA |
| Full battery life | At 25°C | / | / | 32 | hour |

Self Electricity LED Film

Display module



Self Generating LED Film display unit structure

*Color, thickness, size do not represent the actual situation, only for the convenience of the illustration.



SMART DOORS AND WINDOW

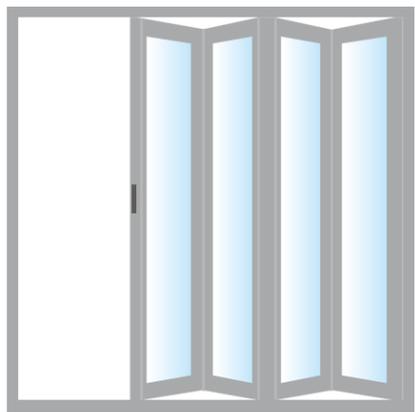
Widely used in glass curtain wall, space decoration, partition decoration, home design, landscape lighting, commercial display and so on.



About Smart door and window

Smart doors and windows are a brand new product from Filmbase, which perfectly combines PDLC glass with door and window systems. It adopts advanced PDLC intelligent dimming technology, which can switch between transparency and privacy modes with one click, and has multiple functions such as heat insulation, sound insulation, and energy saving.

This type of door and window not only meets privacy protection needs, but also enables remote operation and automated management through an intelligent control system, bringing users a convenient and comfortable smart home experience.



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.



Optimize Space

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



Dynamic Designs

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



Anti-noise

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



Easy To Clean

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





FILMBASE Folding Door

Filmbase folding door can meet the application needs of various scenarios, breaking through the limitations of previous folding differences. It not only creates unique designs for spaces but also provides good environmental requirements for interiors.

 Adopting high-strength aluminum alloy door frames, combined with hidden hinges and innovative folding track design.

 Support 90 ° column free angle and 270 ° ultra large open/close field of view.

 The built-in PLCD film can switch between transparent and atomized states, achieving privacy protection and natural lighting.

 Supports multiple opening and closing methods, with flexible adjustment of the number of door leaves.

 It has excellent insulation, sound insulation, waterproofing, and windproof performance, while also considering safety and durability.

 The gap between the door leaf and the center pillar is designed to be 14mm, and the anti pinch design is safer.

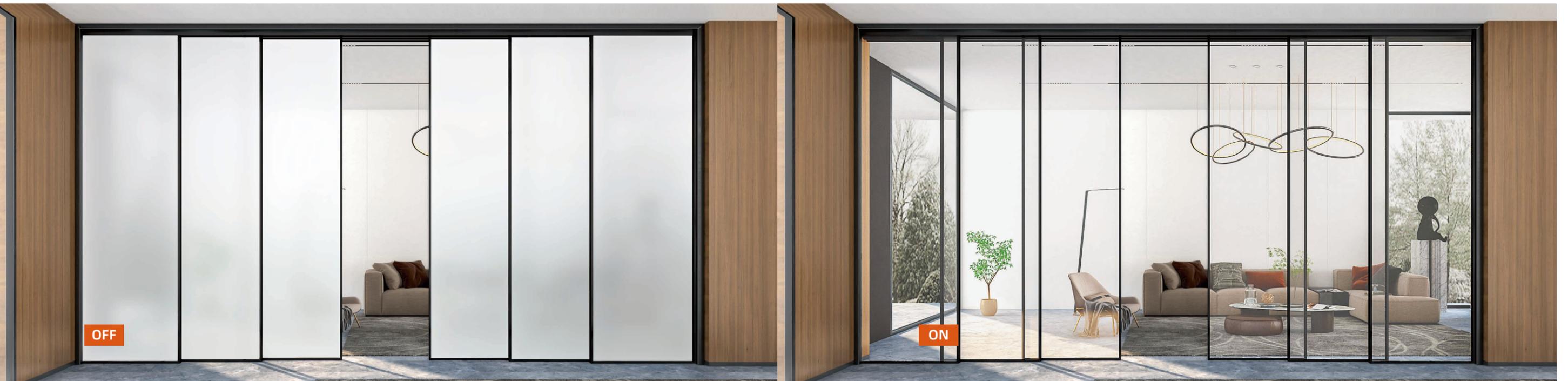
Product Parameters

FILMBASE Folding Door

| Products | Standard glass | Door frame color |
|-----------------------|--|---------------------------------|
| 73-65 Folding door | 5+5+15a+5 (84 Ultra White with accessories) | Metallic Gray, Brown, Sand Gray |

Detailed parameters

Material wall thickness: 2.0mm, frame width: 73mm, opening fan width: 65mm
Can be made in odd and even, height up to 3.5 meters, total width is unlimited, the width of the movable fan is limited to within 1 meter, the minimum height of 1.2 meters.



FILMBASE Sliding Door

Filmbase sliding door adopts a simple and extremely narrow frame design, widely used in residential balconies, indoor partitions, office partitions, and other scenarios, especially suitable for space needs that pursue minimalist design and modern style.

 providing flexible privacy adjustments; Excellent sound and heat insulation performance.

 Adopting an ultra narrow frame suspended door design.

 Single track or double track sliding systems can be provided according to user needs.

 Push pull design saves space and operates smoothly.

Product Parameters

FILMBASE Sliding Door

| Products | Standard glass | Door frame color |
|-------------------------|--|--|
| Minimalist Sliding Door | 4+4 (84 Super White with accessories) | Skin Black, Moonlight Gray, Mixed Glaze White |

Detailed parameters

Material wall thickness: 2.0mm Single track frame width 49mm, two track frame width 95mm, three track frame 141mm. Thickness of frame: 31mm, width of movable fan: 16mm, width of movable fan with micro-edge: 0.8mm, 10mm, width of movable fan: height within 2800mm, width within 1500mm, total width unlimited, wrapping: 2.0mm. Activity fan: height limited to 2800mm or less, width 1500mm or less, total width is not limited, wrap-around edge cover wall 11mm, wrap-around edge face width 28mm, standard with two-way buffer, standard with three-rail linkage.



FILMBASE Privacy Partition

Filmbase privacy partition widely used in indoor partitions, office partitions, and other scenarios, especially suitable for space needs that pursue minimalist design and modern style.

Product Parameters

FILMBASE Privacy Partition

| Products | Standard glass | Door frame color |
|------------------------|--|------------------|
| 83-Panoramic Partition | 5+5 (84 Ultra White with accessories) | Gray, Black |

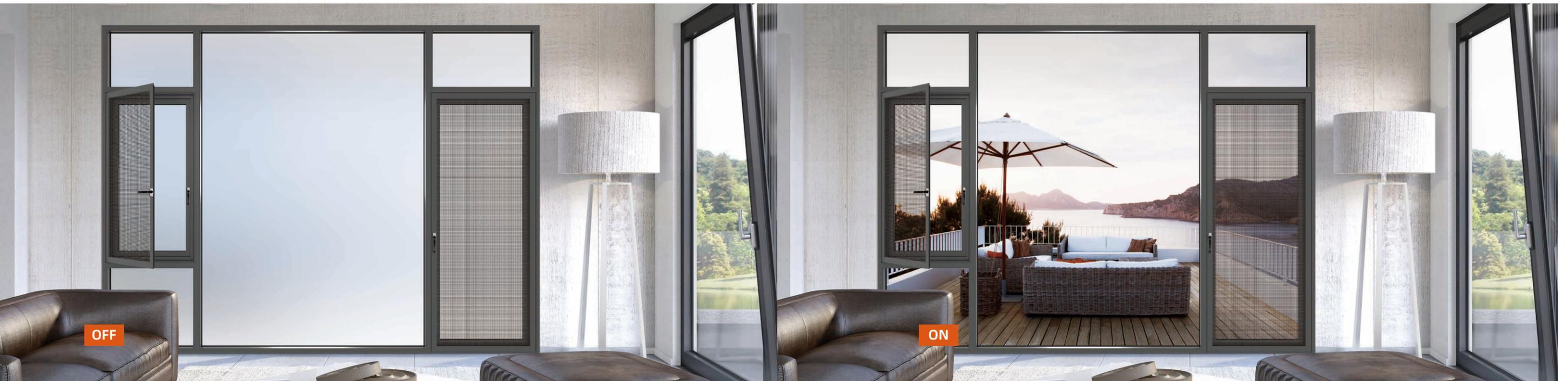
Detailed parameters
 Material wall thickness: 2.0mm
 Frame width 83mm, module width within 1500mm, wall height within 3500mm.

 Complete privacy or transparency when you need and want it most.

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

 Compared with ordinary glass, the anti-noiseability of glass using Filmbase PDLc film is increased by 20%.

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



FILMBASE Window Screen Integrated

Filmbase window screen integrated suitable for high-end residential, office, and commercial buildings, creating a modern, transparent, and comfortable spatial environment that combines aesthetics and practicality.

 Complete privacy or transparency when you need and want it most.

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

 Compared with ordinary glass, the anti-noiseability of glass using Filmbase PDLc film is increased by 20%.

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

Product Parameters

FILMBASE Window Screen Integrated

| Products | Standard glass | Door frame color |
|------------------------------|--|--|
| 120-Window screen integrated | 5+5+15a+5 (84 Super White with accessories) | Metallic Gray, Brown, Iron Crystal Black, Sand Gray |

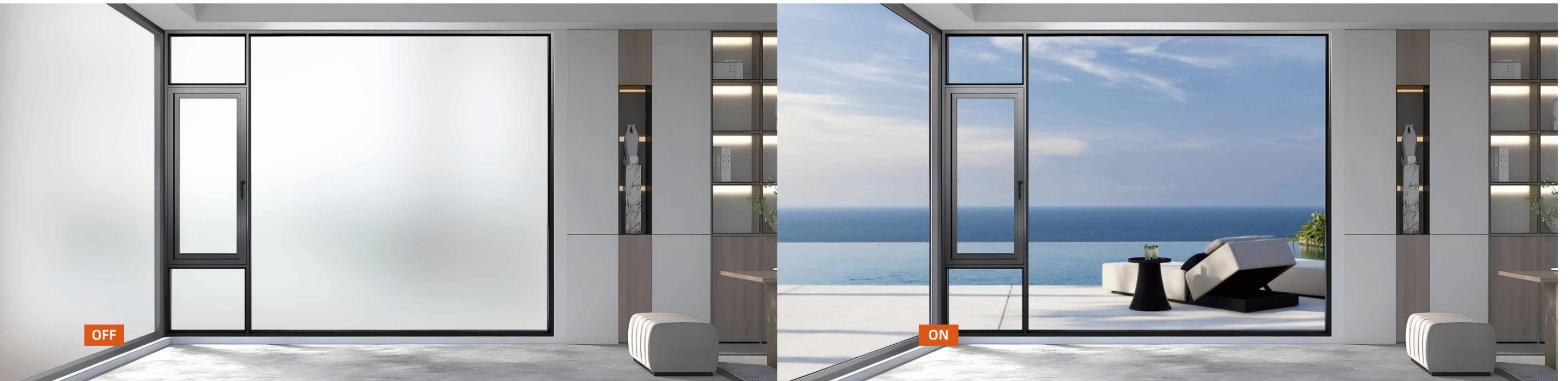
Detailed parameters

Material wall thickness: 1.8mm, frame width 120mm, opening fan width 70mm.
Can do outside open, up hanging, outside flat open up hanging, open fan height within 1500mm, open fan width within 750mm, can do flat door, flat door open fan within 2300mm, flat door activity fan width within 1000mm, the minimum height within 500mm. Hydraulic cushion hinges are required at an additional cost of 150 RMB/pc.

| Products | Standard glass | Door frame color |
|------------------------------|--|--|
| 113-Window screen integrated | 5+5+15a+5 (84 Super White with accessories) | Metallic Gray, Brown, Iron Crystal Black, Sand Gray |

Detailed parameters

Material wall thickness: 2.0mm, frame width 113mm, opening fan width 70mm.
Can do outside open, up hanging, outside flat open up hanging, open fan height within 1500mm, open fan width within 750mm, can do flat door, flat door open fan within 2300mm, flat door activity fan width within 1000mm, the minimum height within 500mm. Hydraulic cushion hinges are required at an additional cost of 150 RMB/pc.



FILMBASE Casement Window

Filmbase casement window widely applicable to kitchen, bathroom, villa basement, commercial display windows and other scenes, saving space while providing good lighting and ventilation effects, combining practicality and fashionable design sense.

 Complete privacy or transparency when you need and want it most.

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

 Compared with ordinary glass, the anti-noiseability of glass using Filmbase PDLc film is increased by 20%.

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

Product Parameters

FILMBASE Casement Window

| Products | Standard glass | Door frame color |
|--|---|---|
| 70-Broken bridge type aluminum alloy Casement window (openable inside and outside) | 5+5+15a+5 (84 Super White with accessories) | Metallic Gray, Brown, Iron Crystal Black, Sand Gray |

Detailed parameters
 Material wall thickness: 2.0mm, frame width 70mm, opening fan width 75mm.
 Can do inside open, outside open, upward hanging, outside flat open upward hanging. Inside open inside inverted, open the fan height of 1500mm, open the fan width of 750mm, can be done within the casement door, casement door activity fan 2300mm, casement door open the fan width of 1000mm, the bottom height of 500mm. Hydraulic cushion hinges are available for an additional RMB 150/pc.