

# PRODUCT CATALOGUE

[www.smartfilmglass.com](http://www.smartfilmglass.com)

# Instant privacy with the flick of a switch

GOING FROM CLEAR GLASS TO TRANSLUCENT IS AS EASY AS TURNING ON A LIGHT.

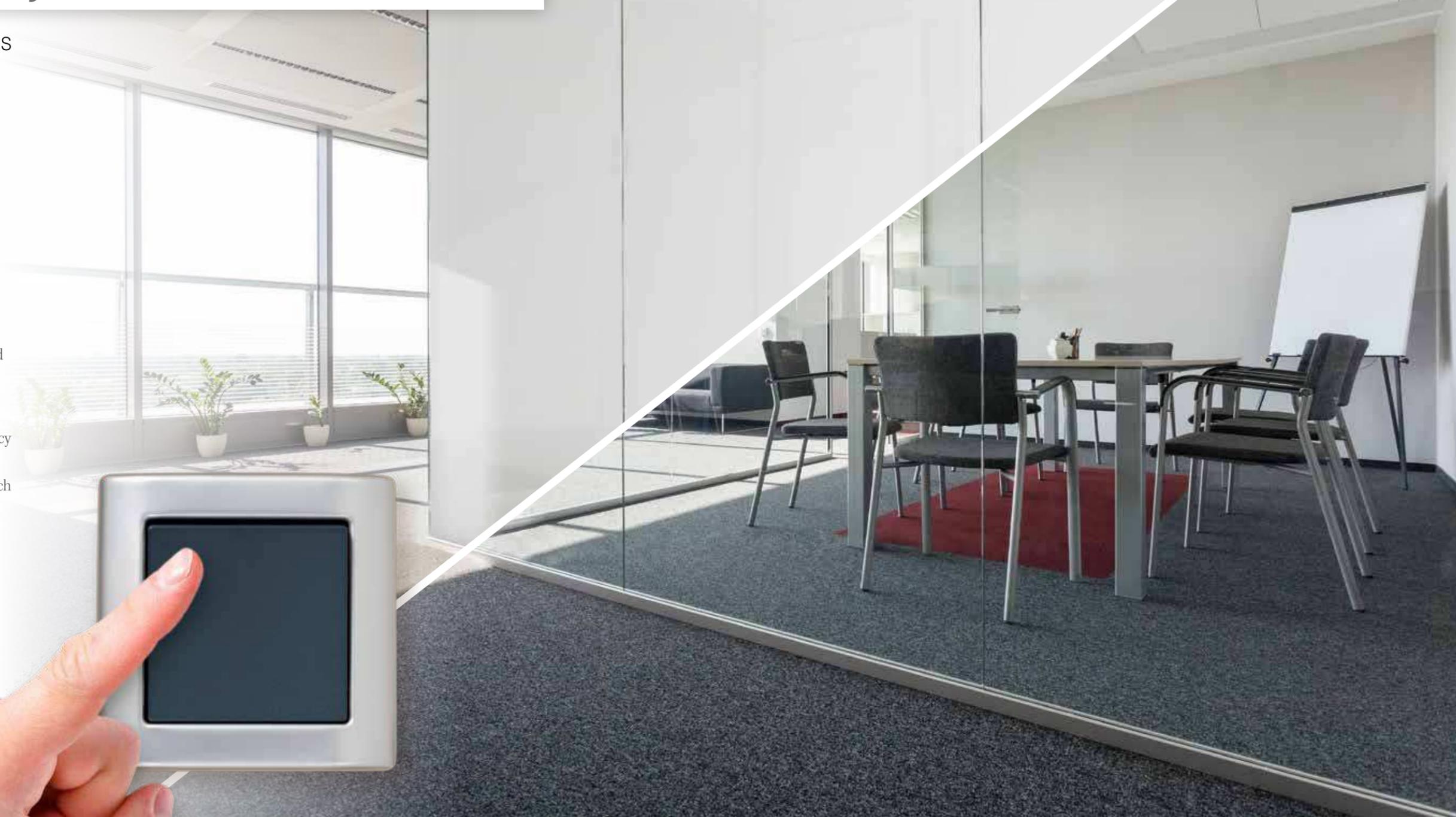
An essential contemporary design



element, glass separates interior spaces without blocking natural light or obstructing your view. There

are trade-offs, however: conventional glass sacrifices privacy or requires the integration of additional design elements – such as blinds, curtains and roller shades – which detract from its otherwise pristine aesthetic.

Smart Film radically changes the privacy landscape of interior design. This features an “inbuilt privacy system” which can be instantly activated or turned off with the simple flick of a switch.



## Smart Film OFFERS UNPARALLELED AMBIENCE AND FUNCTIONALITY



**DUAL USAGE**  
Privacy or transparency?  
The power to choose is yours.



**INSTANT PRIVACY**  
Effortlessly achieve privacy in mere milliseconds.



**NO MOVING PARTS**  
Unlike other privacy systems, durable SMART FILM has no pulleys, strings, fixtures or chains to wear out, tangle up or get stuck.



**CONVENIENCE**  
Flawless delivery every time and a 1-year guarantee. What's more convenient than that?



**EASY TO CLEAN**  
While curtains and blinds collect dirt and dust, SMART FILM requires only the occasional wipe down.

**MAINTENANCE? WHAT MAINTENANCE?**  
No moving parts means maintenance-free enjoyment.



## Why choose Smart Film over other privacy solutions?

Why invest time and money buying or fixing traditional privacy systems when Smart Film offers superior innovation, reliability and cost efficiency?

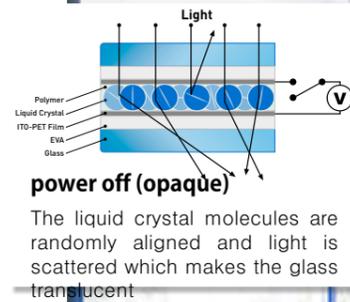
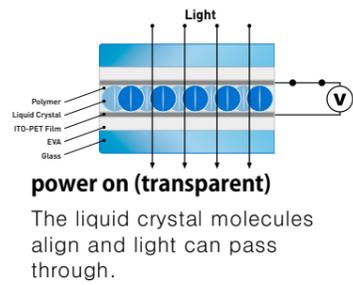
While mechanical methods are destined to fail, Smart Film delivers a sophisticated and timeless modern design solution.



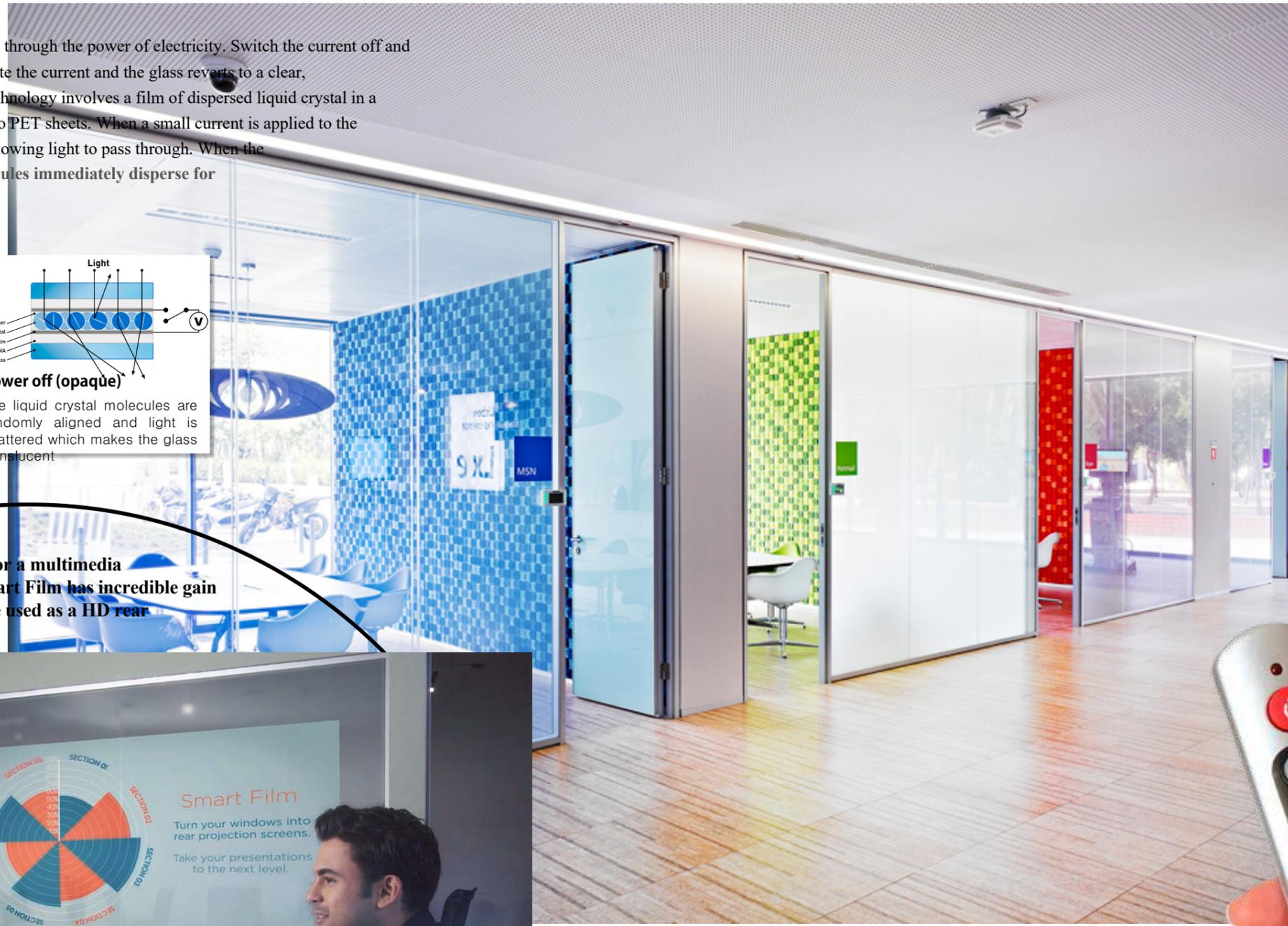
# Smart Film, real privacy

ENJOY ALL OF THE ADVANTAGES OF REAL GLASS WITH A NEXT GENERATION, BUILT-IN PRIVACY SYSTEM.

**SMART FILM** puts privacy at your fingertips through the power of electricity. Switch the current off and the glass turns translucent. Reactivate the current and the glass reverts to a clear, transparent view. This ingenious technology involves a film of dispersed liquid crystal in a polymer matrix pressed between two PET sheets. When a small current is applied to the liquid crystal, its molecules align allowing light to pass through. When the current is disconnected, the molecules immediately disperse for instantaneous and total privacy.



Use your office wall for a multimedia presentation! Our Smart Film has incredible gain levels allowing it to be used as a HD rear projection screen.



CONTROL YOUR SMART FILM IN MULTIPLE WAYS



**MOTION SENSOR**  
Combine with motion sensors to alter privacy depending on the detection of a physical presence.



**SMART PHONE AND COMPUTER** Control remotely via Lutron smartphone app.



**DIMMER**  
Progressively adjust to your desired level of privacy from transparent to opaque through dimmer controls.



**Certified with Crestron and Lutron**  
Integrate with home automation systems.



**REMOTE CONTROL**  
Individually control glass panels via remote controls.

# What's your desired level of privacy?

→ JUST A BIT?  
utilize dimmable transparency/opacity

→ TOTAL?  
enjoy privacy at its best

→ PARTIAL?  
selectively block a chosen area

→ FORM?  
merge style and substance with stripes and other decorative techniques

→ CORPORATE BRANDING?  
embed your company logo or slogan

→ FUNCTION?  
create privacy partitions and foster natural light flow



## OUR CUTTING EDGE MANUFACTURING PROCESS DELIVERS BESPOKE DESIGNS AND SOLUTIONS.

State-of-the-art technology allows our production team to accommodate a comprehensive range of design needs. Each and every **SMART FILM** is customized for the perfect fit.

Sliding glass doors, curved partitions, tinted, fire rated and even bullet proof glass can all be **used with SMART FILM.**

But that's not all. The inner switchable film can differ in size and shape from the glass surface. Want to integrate your company logo or other custom design? These creative visual effects and more are possible with **SMART FILM**



**TINTED AND BULLET PROOF?**  
*Switchable, tinted glass that's also bullet proof? Not a problem with SMART FILM. Want it curved or cut to custom shapes? If you can imagine it we can do it. Anything is possible with SMART FILM.*

## TRUE TRANSPARENCY

**UP TO 50% LESS HAZE**  
**UP TO 30-50% LESS HAZE THAN COMPETITORS! NOW WE'RE TALKING.**  
Most switchable film manufacturers offer high privacy and low transparency or low privacy and high transparency. **SMART FILM** fuses the two extremes to deliver high privacy levels when OFF and high transparency levels when ON.



**UNPARALLELED PRECISION CUTTING**  
**SMART FILM** is a leader in the area of privacy film. (PDLF Film). We've done away with conventional cutting techniques, and pioneered innovative new ways to deliver precision cut shapes, holes and edges. The result? A perfect, clean edge at every level of cutting pattern complexity.

# International Outreach

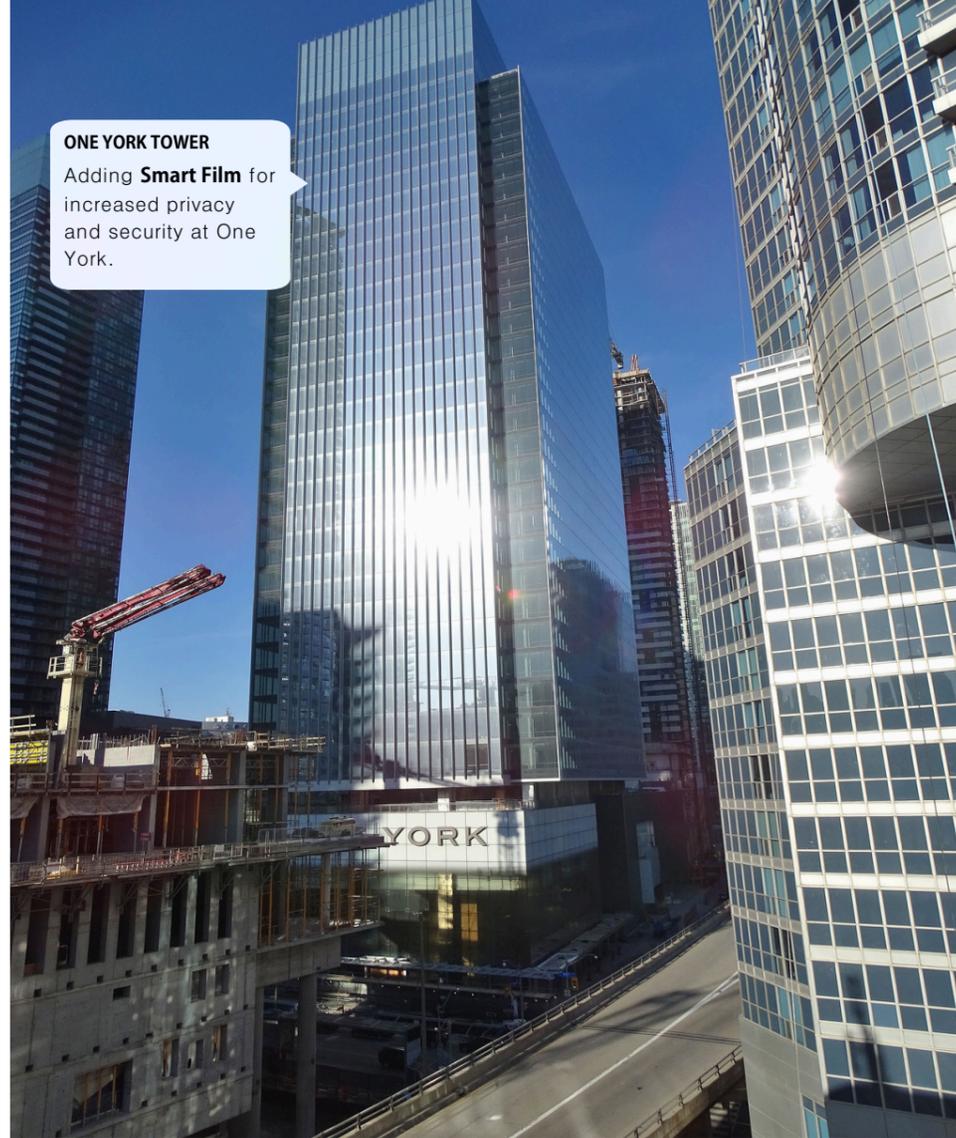
## SMART FILM FOR THE WORLD

An exceptional product and commitment to consummate service allows us to deliver premier solutions for the world's most complex design challenges. But our promise to you doesn't end there. We offer a fast turnaround time in any region of the world while ensuring on-time and on-budget international delivery.

At the heart of **SMART FILM** is a core commitment to research and development, customer service and exceptional design consultancy.

### ONE YORK TOWER

Adding **Smart Film** for increased privacy and security at One York.



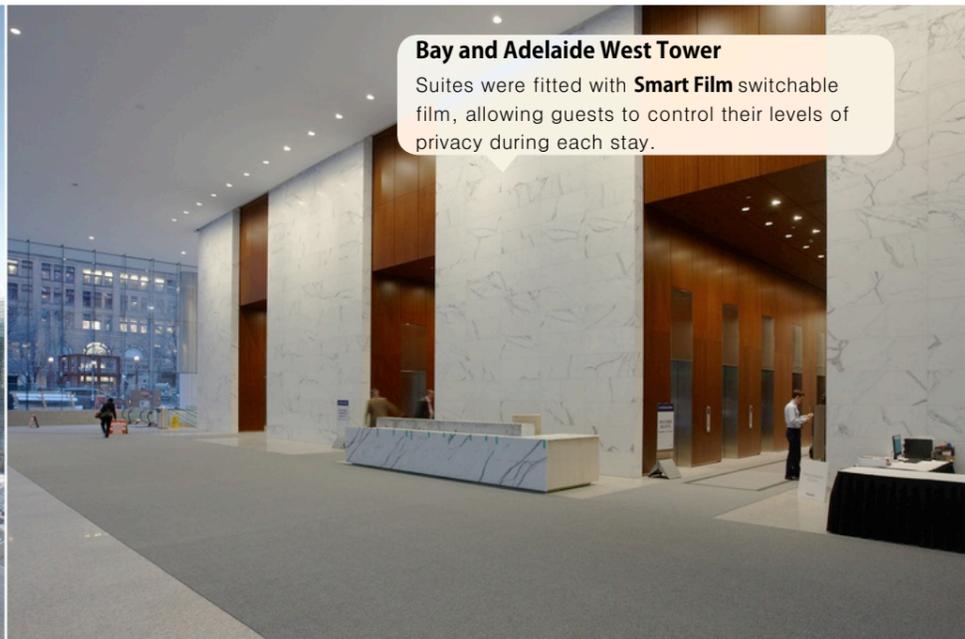
### High Profile banking Institution

Translucent glass panels were replaced with **Smart Film** switchable film to offer clients a dynamic ambiance solution for both privacy and light control.



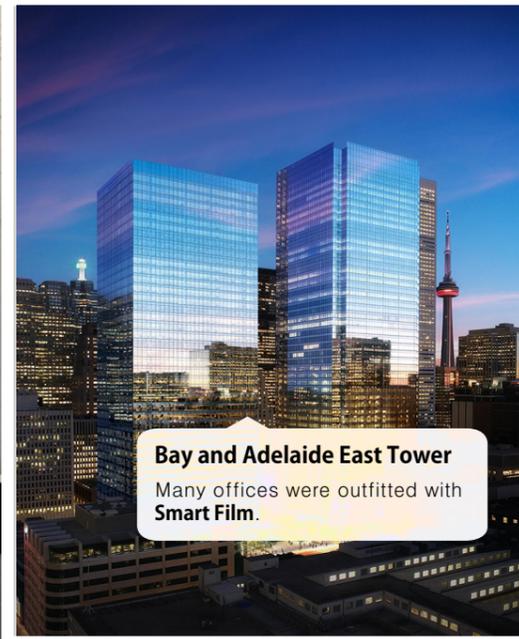
### Bay and Adelaide West Tower

Suites were fitted with **Smart Film** switchable film, allowing guests to control their levels of privacy during each stay.



### Bay and Adelaide East Tower

Many offices were outfitted with **Smart Film**.



### GWL Realty Advisors

A large executive meeting room at 33 Yonge St. Toronto, Canada



# SMART FILM business and hospitality industry applications

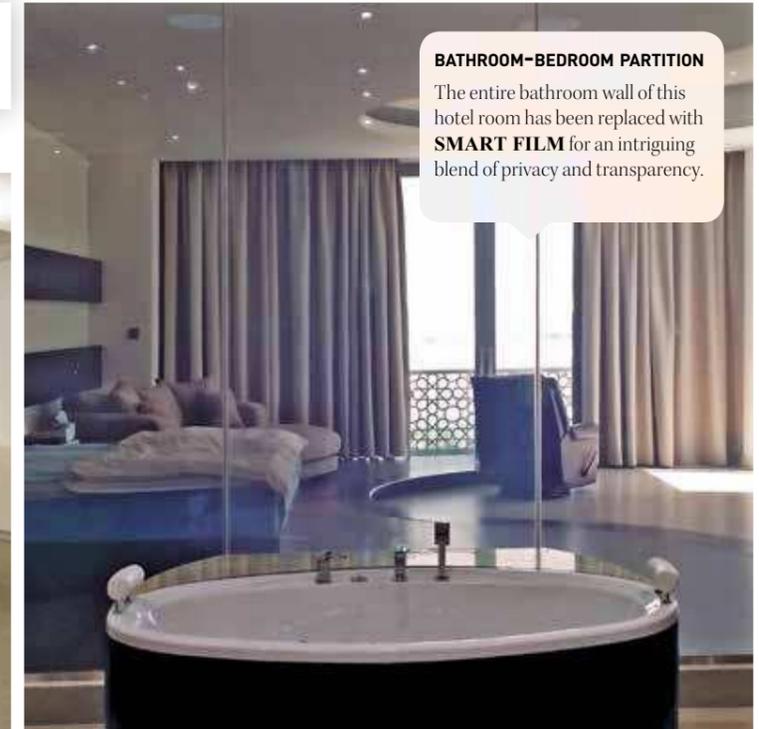
## SMART FILM REVOLUTIONIZES TRADITIONAL INTERIOR ARCHITECTURE.

SMART FILM delivers a whole new world of efficiency and ambiance for offices and hotel rooms. Replace traditional walls with spacious, open views for the essence of comfort and wellbeing. **SMART FILM** welcomes natural sunlight into every hotel bathroom and interior office area with no compromise of privacy.

The dual functionality of transparency and privacy seamlessly integrates with contemporary open plan designs for a visionary new solution to traditional design and architecture challenges.



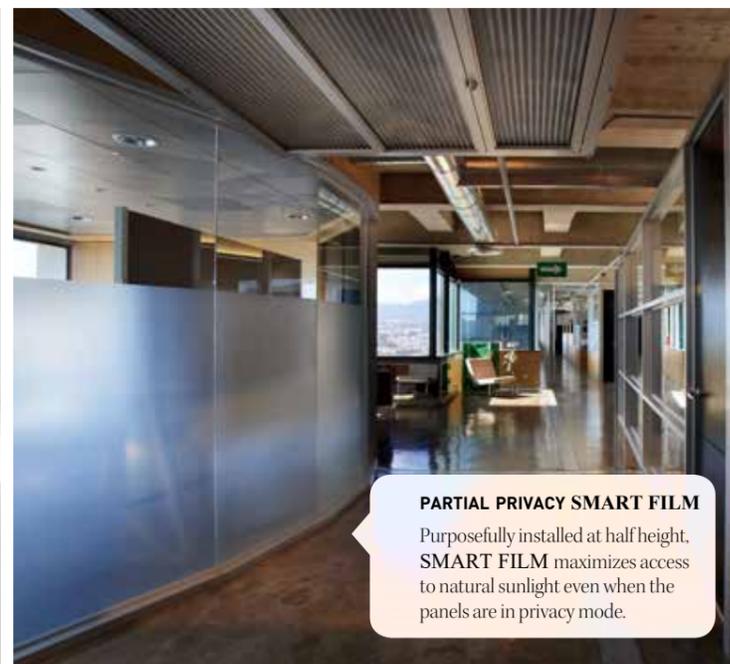
**BOARD CONFERENCE ROOM**  
SMART FILM, which can be dimmed for optimal privacy, separate this conference room from the presidential office suite.



**BATHROOM-BEDROOM PARTITION**  
The entire bathroom wall of this hotel room has been replaced with SMART FILM for an intriguing blend of privacy and transparency.



**PARTITION SCREEN**  
A large partition screen delivers privacy and separation while maintaining the open plan architecture of this office area.



**PARTIAL PRIVACY SMART FILM**  
Purposefully installed at half height, SMART FILM maximizes access to natural sunlight even when the panels are in privacy mode.



**FRAMELESS MEETING ROOMS**  
The large frameless glass fronts of the meeting room and adjacent office creates options for openness and privacy while highlighting the space's chic interior design.

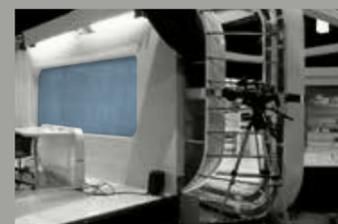
## ENDLESS APPLICATION POSSIBILITIES



► CONFERENCE ROOMS



► PARTITION SCREENS



► TV - CINEMA APPLICATIONS



► GLASS DOORS



► TRADE FAIRS



► BEDROOM / BATHROOM PARTITION



► SHOWER CUBICLES

# SMART FILM: healthcare, transport and architectural applications

## THE ADAPTABLE, INFINITE USES OF SMART FILM.

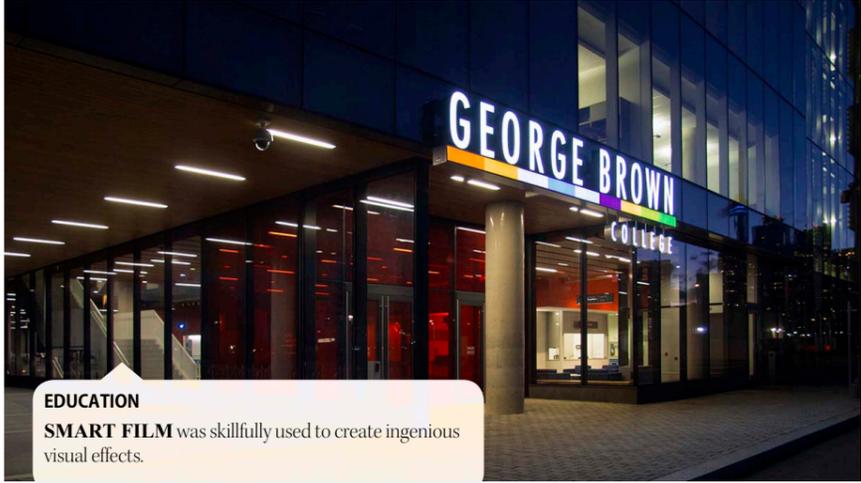
It's no surprise that **SMART FILM** has become the healthcare sector's preferred choice: in simplest terms, it's the most hygienic privacy system available. After all, what hospital curtain can outperform the ease of maintenance and disinfectability of **SMART FILM**?

**SMART FILM** partitions also allow natural daylight to flow freely into hospital interiors creating a soothing atmosphere that fosters recovery.

Transport, automation and architecture industries also benefit from the infinite potential of **SMART FILM**. Dynamically adjustable sunroofs and skylights are increasingly valued sought after 21st century accessories.



**TRANSIT INTERIORS**  
Privacy partitions, as in this illustration of a cockpit separated from a passenger area, are a superior solution for the automotive, marine, rail and aviation sectors.



**EDUCATION**  
**SMART FILM** was skillfully used to create ingenious visual effects.

## ENDLESS APPLICATION POSSIBILITIES



▶ HOSPITAL ROOMS



▶ NURSING WARDS



▶ INTENSIVE CARE UNITS



▶ HOSPITAL DOORS



▶ DRIVER PRIVACY SCREENS



▶ TRAIN COMPARTMENTS



▶ CAR SUN ROOFS



**INTENSIVE CARE UNITS**  
Hermetic doors can be fitted with **SMART FILM** to offer a hygienic and efficiently controlled environment for patients who are isolated from external contact. This reduces the risk of infection and other health hazards.



**OPERATING ROOMS**  
Consulting doctors, nurses and other healthcare practitioners can advise and monitor surgical teams without even having to enter the operating room.



**PRIVACY FLOORS IN DUPLEX APARTMENTS**  
**SMART FILM** converts a simple floor into a dynamic solution by illuminating the lower level with natural daylight while granting instant upper level privacy.

# Technical specifications

QUALITY WITHOUT COMPROMISE.

**SMART FILM** can be engineered to meet your specific needs through any imaginable configuration. With an option of seven colours to choose from, ranging from low-iron glass to colour tinted, curved, double glazed, fire rated, IG, bullet proof and shaped glass.

Its superior quality, accompanied by unrivalled customer service with the industry's shortest lead times, make the **SMART FILM** name synonymous for quality without compromise.

SMART FILM CAN BE MANUFACTURED AND CUT TO MOST SIZES AND SHAPES



**IN-HOUSE R&D DEPARTMENT**  
Our own talented R&D department is constantly working to enhance our switchable product line while assessing the market and customer needs.



**QUALITY TESTING**  
We go to great lengths to ensure the highest quality for our **SMART FILM** products.

TECHNICAL DATA		
Environment	Storage	-20° to 50° C
	Operation	-20° to 50° C
Electrical Properties	Operating Voltage	40 - 60 ACV
	Operating Frequency	50 - 60 Hz
	Power Consumption	< 6 W/m <sup>2</sup>
	Switching Time	< 0.1 seconds
Optical Properties	Total Transmittance OFF state	45% ± 3%
	Direct Transmittance OFF state	0.3%
	Total Transmittance ON state	> 85%
	Haze ON state	< 6%

The above figures are recommended for guide purposes only. **SMART FILM** reserves the right to amend information without prior notice.

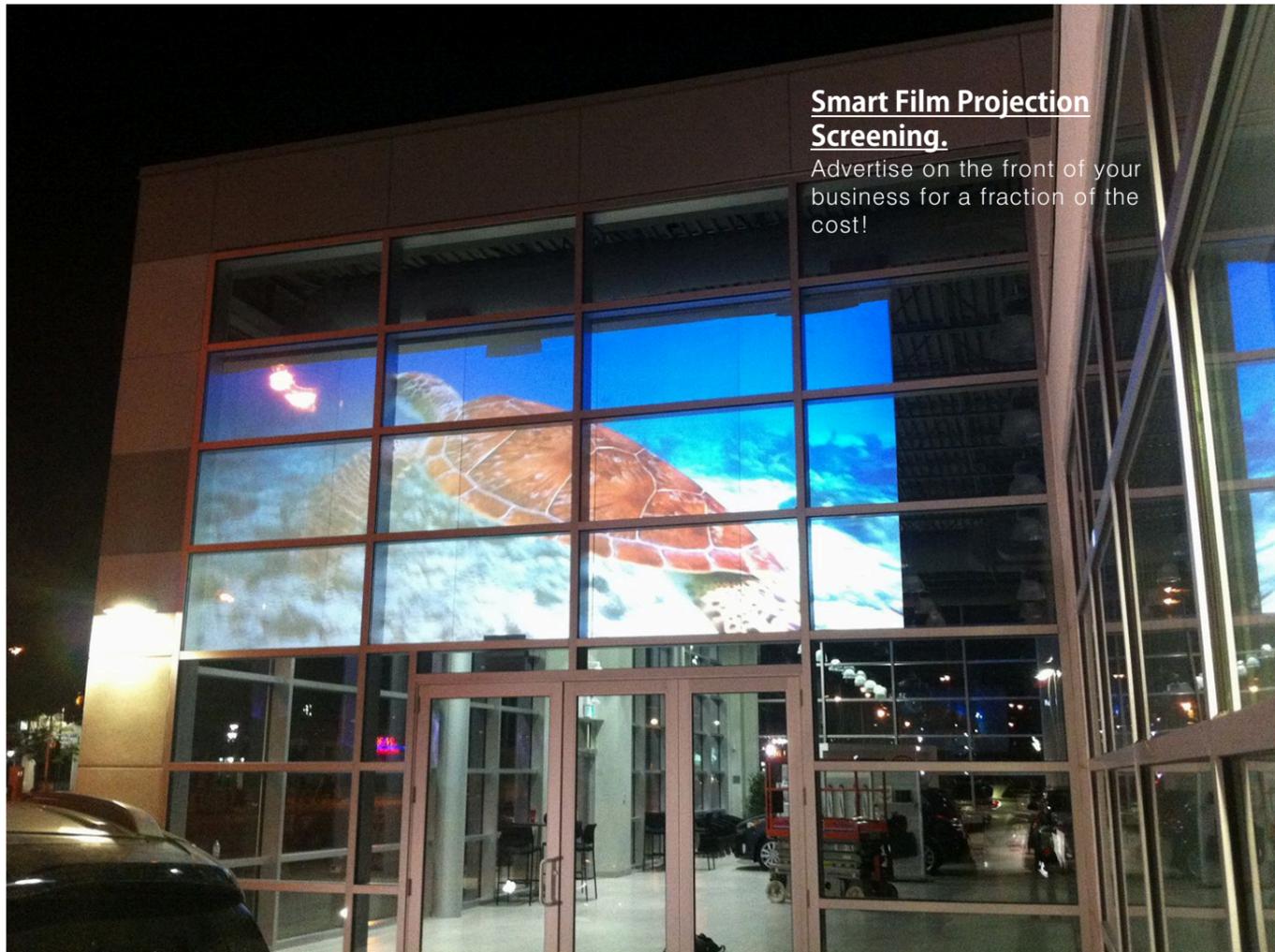
ASSURING QUALITY, FUNCTIONALITY AND SAFETY



UL RECOGNITION  
CERTIFICATION



1 YEAR  
WARRANTY



## ABOUT SMART FILM BY WHEELLOK

**SMART FILM by WHEELLOK TECHNOLOGY** was founded in 2014 in Ontario Canada with the mission to supply high quality switchable privacy film with the best quality, guaranteed customer service and satisfaction to its global clientele. Our goal is to maintain its position as a leading switchable privacy film supplier.

