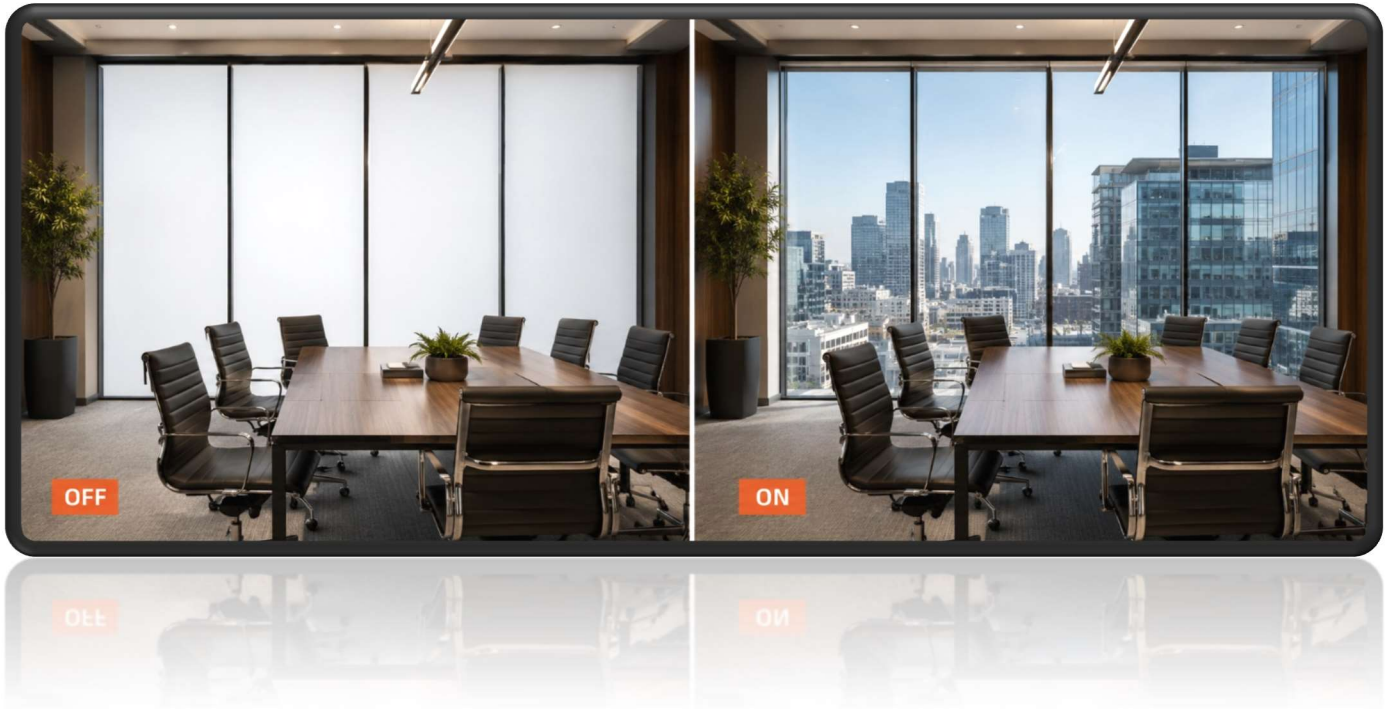




PDLC SMART FILM 84-85% | Standard Series

Professional Switchable Privacy Glass Solution

Cost-effective PDLC Smart Film combining reliable privacy control, excellent optical performance, and versatile application possibilities for commercial, residential, healthcare, and hospitality environments.

Product Overview

The PDLC 84-85% Smart Film is our most cost-effective switchable privacy solution, providing an excellent balance between performance, appearance, and affordability.

When powered, the film becomes transparent, allowing natural light to pass through the glass. When power is removed, the liquid crystal molecules disperse and the glass transitions to an opaque state, providing immediate privacy while maintaining a modern and elegant appearance.

This series offers reliable privacy control, high UV protection, low energy consumption, and compatibility with a wide range of control systems, making it suitable for both new projects and retrofit installations.

The 84-85% series is particularly well suited for applications where ultra-high transparency is not essential, while maintaining excellent functionality and visual quality.

Key Benefits

- ✓ Instant Privacy Control
 - ✓ UV Protection >99%
 - ✓ Suitable for Existing Glass
 - ✓ Improved Safety in Case of Glass Breakage
- ✓ Cost-Effective Solution
 - ✓ Low Power Consumption
 - ✓ Smart Home Integration Ready
 - ✓ Suitable for Projection Applications

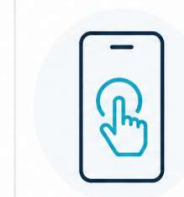
Typical Applications

- Commercial Offices:** Conference rooms, meeting rooms, executive offices and collaborative workspaces.
- Healthcare Facilities:** Hospitals, clinics, consultation rooms and medical examination areas.
- Hospitality:** Hotels, restaurants, bars and premium guest environments.
- Retail & Exhibition:** Showrooms, museums, galleries and interactive display areas.
- Residential:** Luxury villas, apartments, bathrooms and internal glass partitions.

Technical Specifications

PARAMETER	SPECIFICATION
FILM TYPE:	Self-Adhesive PDLC Smart Film
LIGHT TRANSMISSION (ON):	84-85%
HAZE (ON):	4-5%
OPERATING VOLTAGE:	60V AC
POWER CONSUMPTION:	≤5 W/m ²
VIEWING ANGLE:	≥160°
UV REJECTION:	≥99%
IR REJECTION:	≥60%
RESPONSE TIME (OFF→ON):	≤30 ms
RESPONSE TIME (ON→OFF):	≤200 ms
OPERATING TEMPERATURE:	-30°C to +50°C
EXPECTED LIFESPAN:	100,000 Hours
SWITCHING CYCLES:	≥2 Million
AVAILABLE WIDTH:	Up to 1800 mm

Control Options

					
Wall Switch	Remote Control	Motion Sensor	Mobile App	Smart Home	BMS Integration

Professional Installation by Bullconcept

Bullconcept Smart Solutions Ltd. provides complete turnkey PDLC Smart Film solutions, including technical consultation, site assessment, product selection, professional installation, system commissioning, and after-sales support.

Every project is individually evaluated to ensure the most suitable film type, control method, and installation approach for the specific environment and customer requirements.

Maintenance & Care

Detailed cleaning and maintenance instructions are available in the PDLC Smart Film Care & Maintenance Guide, available at <https://smartfilm.bullconcept.com>.

Important Notes

This product is intended to be installed, connected, and commissioned by qualified professionals. Final suitability depends on the project environment, glass condition, dimensions, control requirements, and site-specific installation conditions.

Ready to discuss your project?

Contact our team for a free consultation.

Contact



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