

PDLC

挑選

指南

STARTEK

明星電控

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The Authority in Premium PDLC Solutions.

Partner with:



STARTEK 是一家立足台灣的創新企業，致力於重新定義空間的設計、體驗與運用方式。以「把可用空間還給每一個人」為核心願景，STARTEK 開發智能玻璃與模組化隔間系統，將科技、建築與空間美學無縫整合。透過以智慧、可調節的玻璃取代傳統實牆，我們打造更輕盈、更明亮、更具彈性且面向未來的空間環境。

我們的智能隔間系統厚度僅為傳統牆體的十分之一，卻同時整合隱私、採光與隔音功能於一體。透過樂高式的模組化、可重複利用設計概念，STARTEK 讓空間能夠重新配置、移動與再利用，支持永續建築與 ESG 導向的發展。



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2022 年，STARTEK 於台北成立全台首座「智能玻璃體驗場域」，為建築師、設計師與開發商提供沉浸式展示環境，探索下一世代的空間應用。同年，公司榮獲總統親頒的品牌金船獎 ESG 創新肯定，表彰其在先進材料科技與永續設計整合上的貢獻。



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目前，STARTEK 服務多家國內外指標企業與機構，包括台積電（TSMC）、友達光電（AUO）、明基材料（BenQ Materials）、台北 101，以及眾多企業總部、商業開發案與公共機構專案。作為先進材料與建築應用之間的橋樑，STARTEK 持續拓展國際市場，將智慧玻璃解決方案導入現代辦公空間、醫療場域、飯店旅宿及高端住宅環境。



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PDLC Selection Guide(1/2)

在選擇 PDLC（調光）膜或調光玻璃時，最重要的兩項性能指標為液晶的色溫（CCT）以及光學解析度（亦即透明狀態下的清晰度與細節表現）。這兩項因素將直接影響整體視覺的「通透感」、霧化狀態的白度表現，以及空間中最終呈現的自然視覺體驗。



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PDLC Selection Guide(2/2)

一般而言，較低色溫（偏暖色調）的產品能呈現柔和、溫暖的視覺氛圍，但相對而言，其解析度感受可能略低，透明狀態下的霧度也可能稍高於高色溫產品。相對地，較高色溫（偏冷白色調）的產品通常能在透明模式下呈現更銳利的清晰度與更高的解析表現，但在某些空間或燈光條件下，整體視覺可能會顯得較冷或偏白。

因此，PDLC 的選擇並不存在單一最佳解，而應依據實際使用場景進行搭配，例如居家隱私空間、高端商業會議室、展示型櫥窗空間，或投影應用場景等。以下產品介紹將清楚說明各類產品之間的差異與特性，並提供不同應用環境下的實際選用建議，協助您為專案選擇最合適的 PDLC 解決方案。



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Startek1-2800K

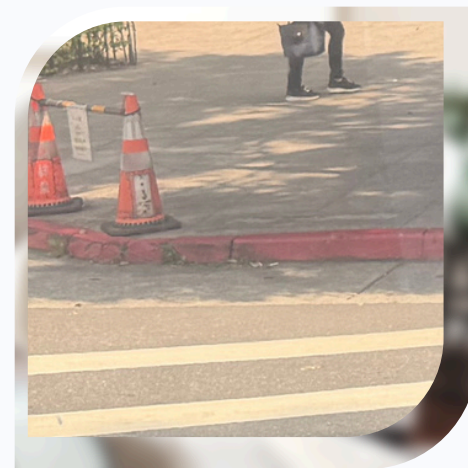
高性價比入門款，遮蔽性最強。
暖色穿透效果營造舒適空間氛圍。
特別適合淋浴間、衛浴與高度隱私場域。



High-privacy

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Shower room



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		Startek1-2800K
Model		Cloudy White
Application Field		Interior
Thickness		0.4mm
Mode		On : Transparent; Off : Opaque
Maximum Size		1800mm x 3,600mm
Optical Property	Total Transmittance	> 88%(On) >50%(Off)
	Haze	>6%(On) >90%(Off)
	Viewing Angle	160°
	UV Cut	>99%
	IR Cut	>20%
	SHGC	Solar Heat Gain Coefficient
Electrical Property		Driving Voltage 65VAC Frequency :50 ~ 60 Hz Power Consumption: 7~10W / m ² Response Time: Off to On : < 10ms/ On to Off : < 200ms
Operating Temp.		-10~60°C
Storage Temp.		-20~65°C

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Startek2-3000K

此款產品兼具高穿透率與優異可視角，正面與側面觀看皆清晰通透、低霧度表現出色；霧化狀態下亦提供穩定且高品質的隱私效果。

3000K色溫呈現溫潤自然的光感，不過黃也不偏冷，兼具空間質感與科技感。

適合應用於居家書房與衛浴套間等需同時兼顧採光與隱私的空間。



Home study

Bathroom



Startek2-3000K

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		Startek2-3000K
Model		Cloudy White
Application Field		Interior
Thickness		0.38mm
Mode		On : Transparent; Off : Opaque
Maximum Size		1,500 mm x 3,600mm
Optical Property	Total Transmittance	> 88%(On) >80%(Off)
	Haze	< 5%(On) > 95%(Off)
	Viewing Angle	160°
	UV Cut	>55%
	IR Cut	>30%
	SHGC	Solar Heat Gain Coefficient
Electrical Property		Driving Voltage 48 V(AC) Frequency :50 ~ 60 Hz Power Consumption: 7~10W / m ² Response Time: Off to On : < 10ms/ On to Off : < 200ms
Operating Temp.		-10~60°C
Storage Temp.		-20~65°C

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Startek2-4800K

以更白淨的色溫設計，呈現無色差、純淨一致的空間視覺效果。

透明狀態下低白霧、高解析；霧化狀態下隱私穩定充足。

特別適合辦公室與品牌商業空間，展現未來感與高端質感。



Branded environment



Office



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		Startek2-4800K
Model		Cloudy White
Application Field		Interior
Thickness		0.27mm
Mode		On : Transparent; Off : Opaque
Maximum Size		1,500 mm x 3,600mm
Optical Property	Total Transmittance	> 86%(On) > 74%(Off)
	Haze	< 4.5%(On) > 96%(Off)
	Viewing Angle	160°
	UV Cut	43%(On) / 29%(Off)
	IR Cut	22%(On) / 29%(Off)
SHGC	Solar Heat Gain Coefficient	0.84 (On)/ 0.75 (Off)
Electrical Property		Driving Voltage 48 V(AC) Frequency :50 ~ 60 Hz Power Consumption:5 ~10W / m ² Response Time: Off to On : < 10ms/ On to Off : < 200ms
Operating Temp.		-10~60°C
Storage Temp.		-20~65°C

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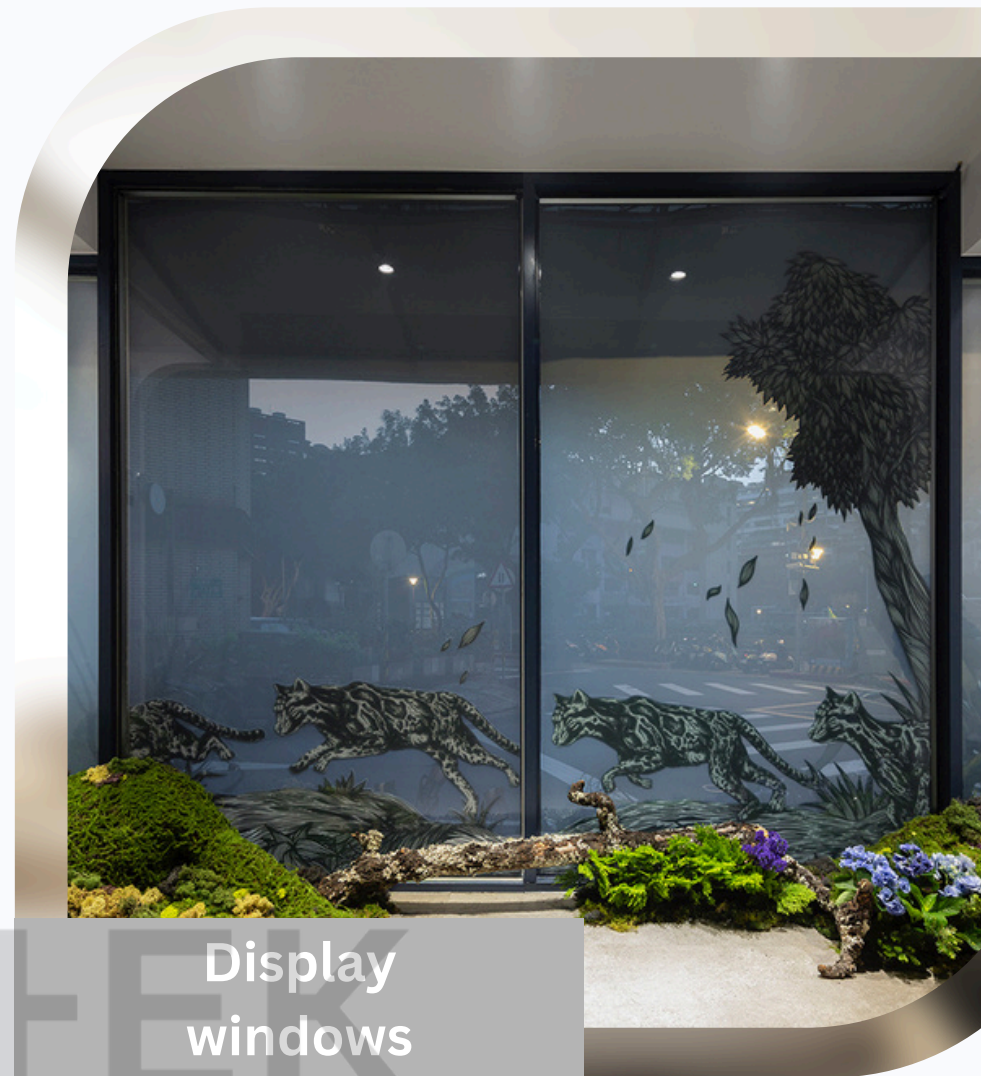
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Startek3-5000K

全球少見的高端 PDLC 設計，透明狀態下近似玻璃般清透，大幅降低白霧感。

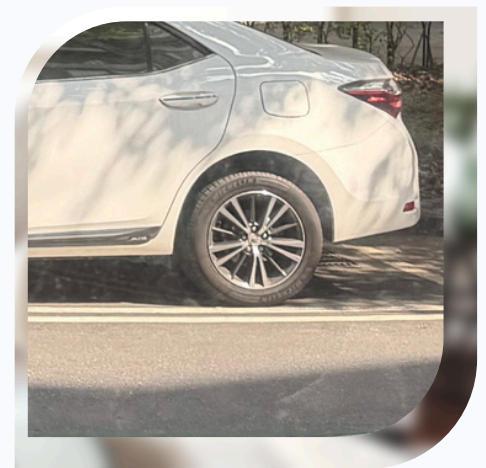
霧化時保有柔性窗紗質感，隱私與通透兼具。

適合展示櫥窗與對視覺清晰度要求極高的商業空間。



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Display windows



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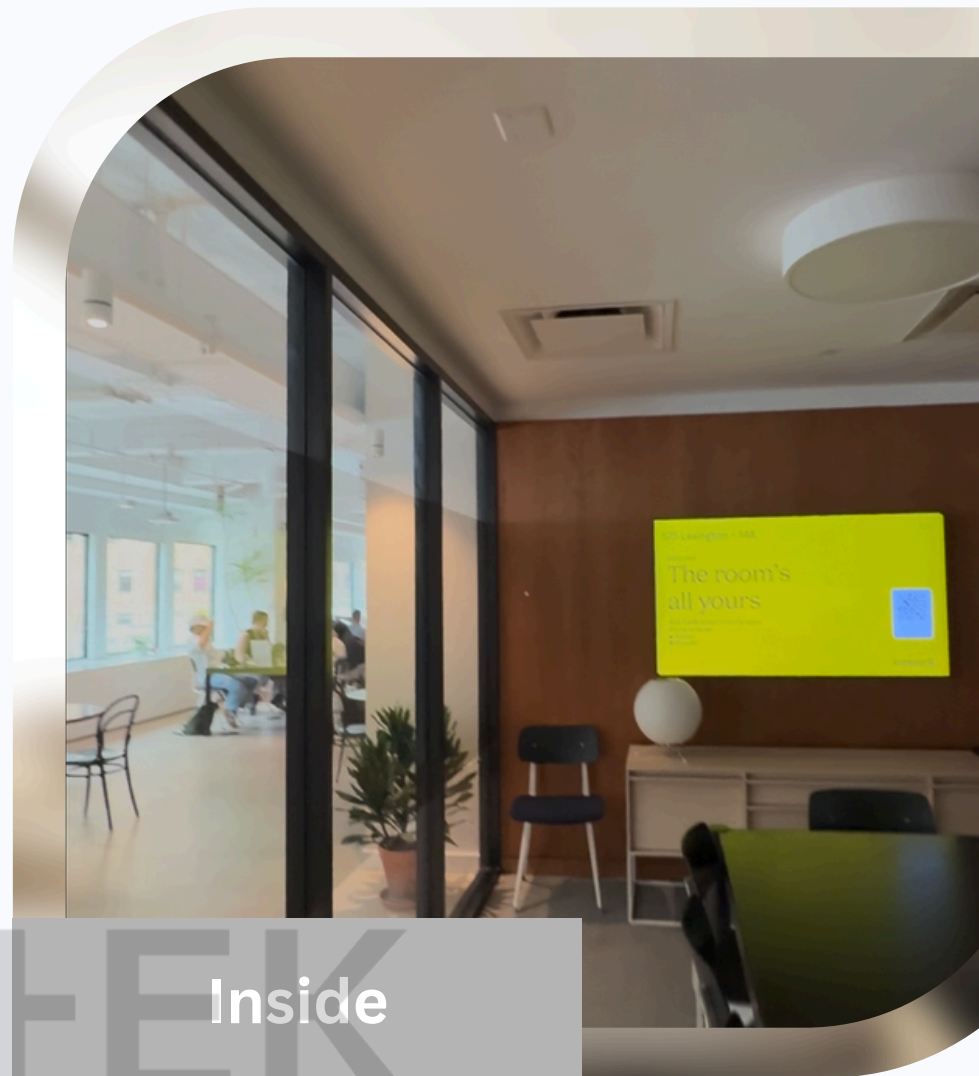
		Startek3-5000K
Model		Cloudy White
Application Field		Interior
Thickness(mm)		0.27
Mode		On : transparent; Off : Opaque
Maximum Size		1,500 mm x 3,600mm
Optical Properties	Total Transmittance	> 87%(On) > 73%(Off)
	Haze	< 3 %(On) < 96%(Off)
	Viewing Angle	160°
	UV-cut	43%(On) 29%(Off)
	IR cut	22%(On) 29%(Off)
	SHGC	Solar Heat Gain Coefficient
Electrical Properties		Operation Voltage: 48 V(AC), Frequency 50 ~ 60 Hz, Power Consumption: 5 ~10W / m ² , Response Time: Off to On : < 10ms, On to Off : < 200ms
Operation Temp.		-10~60°C
Storage Temp.		-20~65°C

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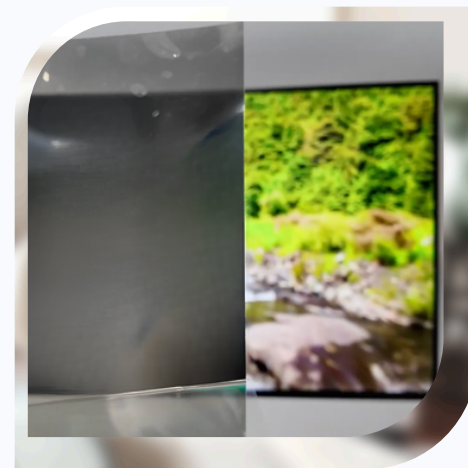
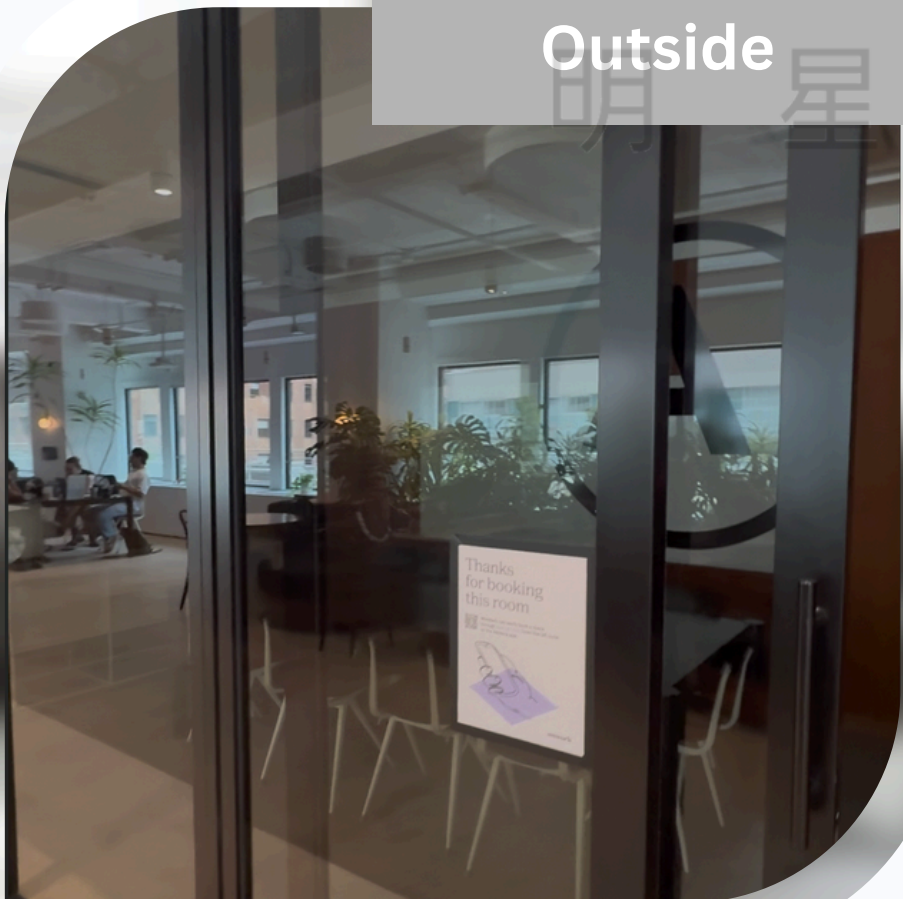
Startek PrivacyShield

透過專利光學技術，PrivacyShield™ 能夠在保持空間通透感的情況下，讓外部仍可清楚辨識室內是否有人使用空間，維持辦公室的互動與開放氛圍；但同時可有效遮蔽室內螢幕、簡報與會議內容，避免機密資訊被外部視線直接讀取，為企業打造更安心的會議環境。



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Outside



Startek PrivacyShield

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PRODUCT COLLECTION

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Film Series		Startek PrivacyShield
Thickness		0.195mm
Operation Mode		Transparent No electricity required
Maximum Size		1,430 mm x 3,000mm
Optical Property (Haze meter)	Visible Light Transmittance	> 25%
	Haze	< 5%
	Blocking Angle	160°
UV-cut (380nm)		< 1%
Operation Temperature		-10~60°C
Storage Temperature		-20~65°C

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PRODUCT COLLECTION

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Product name	Startek1-2800K	Startek2-3000K	Startek2-4800K	Startek3-5000K	Startek3-EX30	Startek3-EX20
Color	White	White	White	White	Deep Grey	Piano Black
Thickness	0.4mm	0.38mm	0.5±0.02mm	0.42mm	0.43mm	0.55mm
Dimension	Up to 1500mm					
Parallel Light Transmission	> 87%(ON)	> 88%(ON)	> 87%(ON)	> 87%(ON)	> 34%(ON)	> 21%(ON)
Viewing Angle	145°	160°	160°	160°	160°	160°
Haze	5%(ON)	< 5%(ON)	< 4.5%(ON)	< 3%(ON)	< 4%(ON)	< 7%(ON)
Operating Voltage	48VAC~75VAC				48VAC	48VAC
Power Consumption	5-10w/m2					
Working Temperature	-10° ~ +60°					
Storage Temperature	-20° ~ +65°					
SHGC	0.67(OFF)				0.36(OFF)	0.49(OFF)

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明星電控

PDLC
COLLECTION
FRONT VIEW



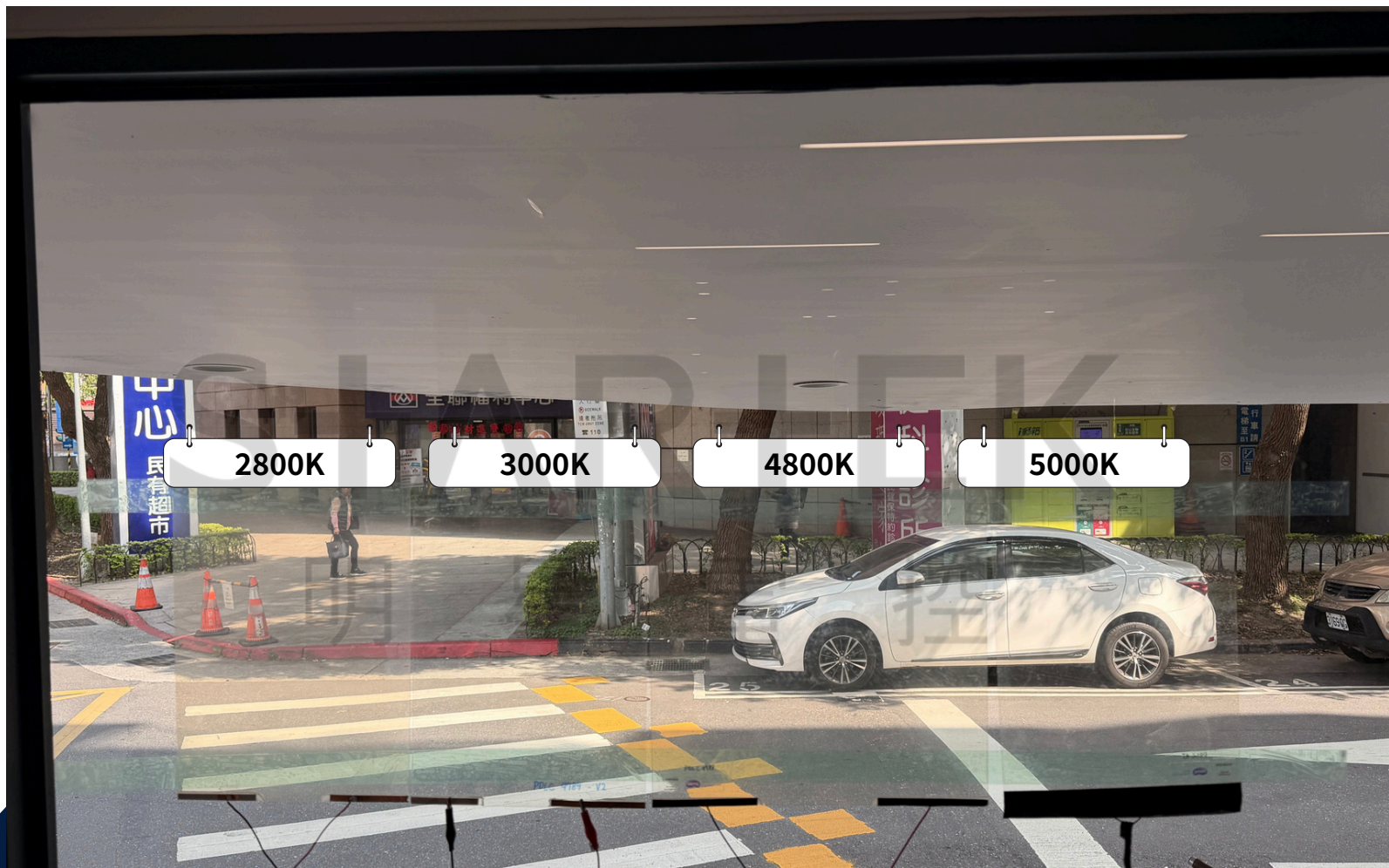
INTERIOR(OFF)

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PDLC
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FRONT VIEW



INTERIOR(ON)

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PDLC
COLLECTION
SIDE VIEW



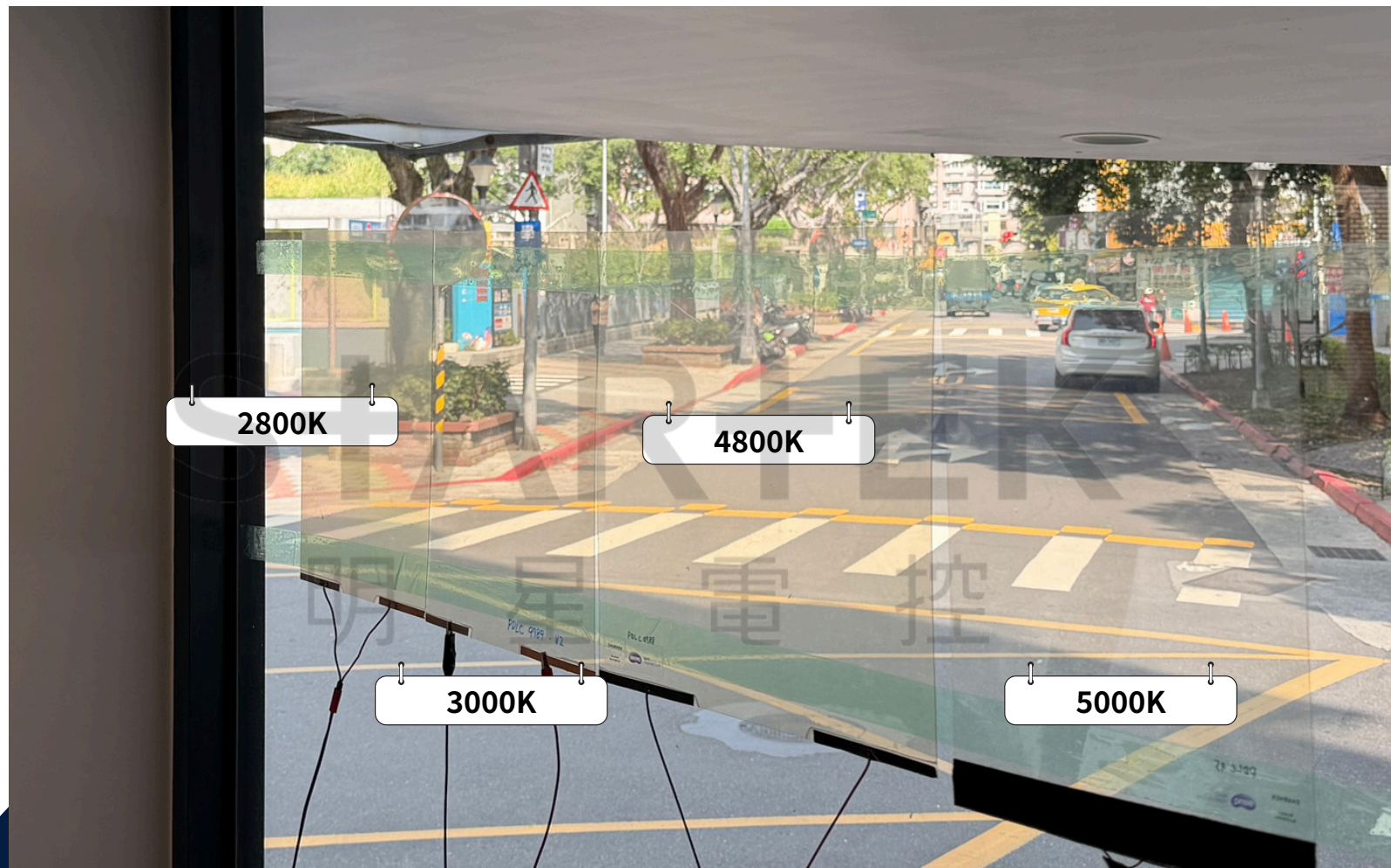
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SIDE VIEW



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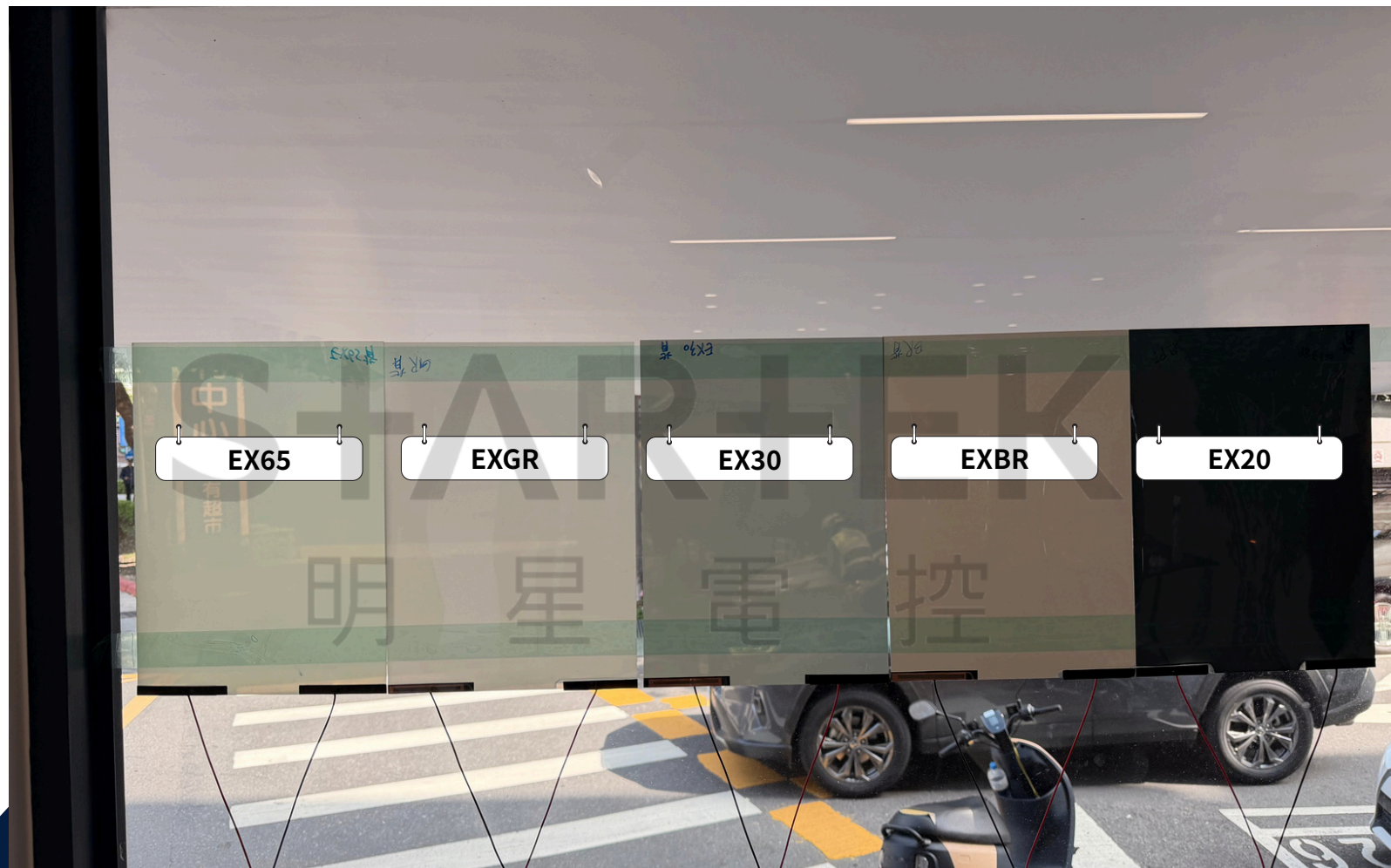
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