

ARORA

SWITCHABLE PRIVACY & MULTIMEDIA GLASS

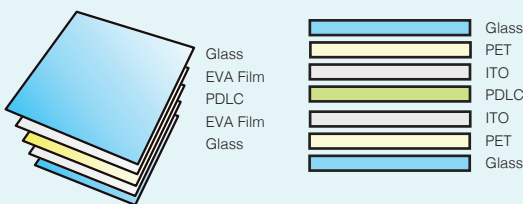
The control of space, light and beauty at the tip of your finger. A power integrated multifunctional glass system that gives you control of the glass's structure, switching from transparent to opaque.



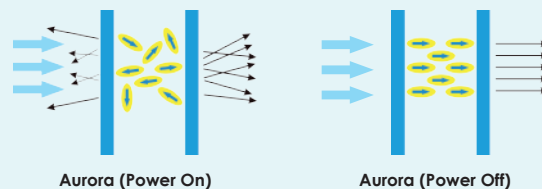
ARORA On
Transparent Glass

ARORA Off
Opaque
Multimedia Screen

ARORA TECHNOLOGY



PDLC CHARACTERISTIC



Aurora Switchable Privacy & Multimedia Glass uses electro-chromatic technology to interchange between transparency and an opaque state by applying voltage to the Polymer Dispersed Liquid Crystal (PDLC) Film.

ARORA FEATURES

SWITCHABLE PRIVACY

Control the glass system by powering on for transparent mode and powering off for opaque mode.

FAST RESPONSE

The glass system is able to switch within 1/10 seconds, achieving an instant change between transparent and opaque.

ENERGY EFFICIENCY

The glass system gives control of light in a space by allowing light through with the transparency mode and trap light within a space with the opaque mode.

SAFETY

The glass system, made up of laminated glass, is held together in place by an interlayer between its two layers of glass, giving it high strength that prevents the glass from breaking up into large sharp pieces.

ENVIRONMENTAL FRIENDLY

The glass system, made up of laminated glass, provides more than 99% UV protection while shielding up to 90% infrared.

SOUND INSULATION

The glass system, made up of laminated glass, can effectively block noise up to 38 decibels.

HEAT REDUCTION

The glass system, made up of laminated glass, has thermal insulation performance that reaches up to grade 2.

MULTIMEDIA SCREEN FUNCTION

In opaque mode, the glass system is able to capture multimedia projection.

ARORA TECHNICAL SPECIFICATION

Category		Mode	Parameter	
Optical Parameter	Visible Transmittance	Power ON	>78%	
		Power OFF	>55%	
	Parallel Transmittance	Power ON	>66%	
		Power OFF	<1.5%	
	Haze	Power ON	<5%	
Power OFF		>90%		
Visual Angle	Power ON	>150°		
Electrical Parameter	Working Voltage	Power ON	48V AC	
	Saturation Voltage	Power ON	<20V	
	Response Time	Power OFF - Power ON	<200ms	
		Power ON - Power OFF	<10ms	
Power	Power ON	<5W/M ²		
Environment Parameter	Working Temperature	-10°C - 65°C		
	Storage Temperature	-20°C - 80°C		
	Life Times	POWER ON > 10 Years		
	Switch Times	>80,000,000		
Physics Parameter				
Glass Thickness	Thickness Laminating	Toughened glass	Non toughened glass	Max Size
4+4mm	≈9.5mm	L≤1.5	L≤1.0	≤1.8 x 3.2M
5+5mm	≈11.5mm	L≤2.3	L≤1.8	
6+6mm	≈13.5mm	L≤3.0	L≤2.3	
8+8mm	≈17.5mm	L≤3.15	L≤2.5	
12+12mm	≈26mm	L≤3.15	L≤2.5	