

LuxVu™ Switchable Privacy Glazing

THE SWITCHABLE PRIVACY EFFECT



ON

OFF

KEY BENEFITS

- Fast switching from milky (OFF) to clear (ON)
- High clarity in the ON state
- White, or colors of the rainbow
- Low power consumption
- Basic technology and process extendable to “reverse mode” glazing: clear (OFF) to milky (ON)
- Lower cost than conventional privacy glazing solutions

PERFORMANCE SPECIFICATIONS

Property	Specification
Construction	Liquid crystal gel sandwiched between two float glass substrates.
Substrate	ITO-coated float glass, 1.1 mm – 3.9 mm plate thicknesses.
OFF state voltage requirement	0
ON state voltage requirement	30 - 110V AC*
Frequency	50 Hz or higher
Minimum operating temperature	-15°C
Maximum operating temperature	+55°C
Light transmission in ON state	> 85%
Power consumption	0.5 – 5.0 W**

*Dependent on panel size, transmission requirements and substrate type.

** Power consumption values increase with panel size. The given range is suitable for panels with area approx. 12”x12”.

MODES OF OPERATION

	Power OFF	Power ON
Appearance	Translucent/ Milky	Transparent
Function	Privacy	Clear View

SIZE SPECIFICATIONS

Property	Specification
Standard Sizes	1ft x 1ft 1ft x 2ft 2ft x 2ft 2ft x 3ft
Maximum Glazing Size	Currently 2ft x 3ft, although process is suitable for larger sizes.
Active Area	Active (switchable) glazing area reaches to within 0.25” of substrate edge.
Thickness	Overall glazing thickness approx 2X substrate thickness.
Minimum Electrical Contact Area	Contact area width 0.125” on two sides of glazing

Custom formats of our LuxVu glazing are available. Call for a quote.

LUXVU APPLICATIONS

Market	Areas of Potential Use
Consumer Products	Appliance windows and doors, consumer electronics, packaging
Interior Architectural	Office dividers, interior windows, privacy panels, windows in consultation/high security areas
Exterior Architectural*	Doors, windows, entrances (commercial and residential)
Automotive/Transport*	Interior driver/passenger dividers, side windows, VIP privacy windows

* Requires additional UV protection and lamination to meet durability and safety requirements.