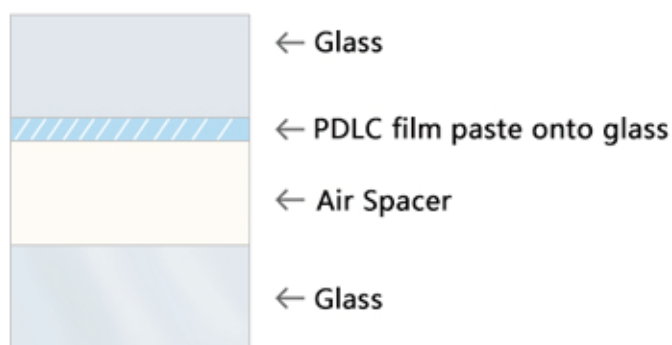


SWITCHABLE SMART IGU

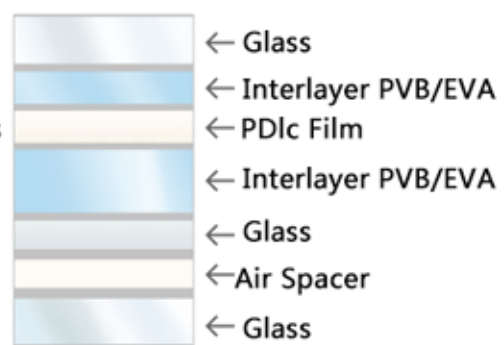
Switchable smart glass has been widely known for many years, it works mainly for privacy from switch on and off as a safety lamination glass instead of blinds. During many years doing research and testing, Vanlong makes the smart glass improve to double-glazing glass which act high performance of energy-saving, Heat and sound insulation. It combined with two or three layers glass with airspace and PDLC Film stick hardly on one surface of the glass. This Switchable double glazing unit widely use for indoor partitions especially curtain walls.

Switchable IGU (Switchable Insulate Glazing Unit) act high performance of energy saving with Shading coefficient 0.22-0.49 and Heat transfer coefficient 1.4-2.8W(m².K). We made the glass perfectly combined PDLC Film function to IGU function.

switchable IGU option A



switchable IGU option B



STANDARD SIZES

Insulate PDLC Glass	Thickness	Size	Length/width/curve tolerance
No Tempered glass	5mm/6mm/8mm/10mm + PDLC Film paste on +6AS/9AS/12AS/15AS+5mm/6mm/8mm/10mm	Max. 1.5*4.2 M	GB/T11944-2012
Tempered Glass	5mm/6mm/8mm/10mm + PDLC Film paste on+ 6AS/9AS/12AS/15AS+5mm/6mm/8mm/10mm	Max.1.9*4.8M	GB/T11944-2012

SPECIFICATION

Insulate PDLC Glass Test Result		Status	Data	Remarks
Optics	Parallel light Transmission	on	> 72%	
		off	< 6%	
	Haze	on	< 10%	
		off	> 90%	
	UV Block	on/off	> 98%	
	viewing angle	on	> 160	
Electrical	Power voltage	on	40 ~ 50VAC	multimeter
	Response time	on → off	< 200ms	Liquid crystal measuring instrument
		off → on	< 200ms	
Power consumption	on	< 3W/ M 2	electrical measuring instrument	
Environment	Work Temperature	on/off	- 20°C to + 70°C	Far from heat, chemical, liquid, wet.
	Storage Temperature		- 15°C to + 50°C	
	Humidity		< 85%	
Duribility	Life time		> 50000 Hours	
	Switch time		> 8 million	
	peel strength		pass	GD15763.3-2009
Energy	Thermal Transmittance (U factor)	on	2.7W/m2K	Test sample 6mm clear glass +PDLC Film+ 12AS+6mm clear glass
		off	2.7W/m2K	
	Shading Coefficient (SC)	on	0.79	
		off	0.62	
	Visible Light Transmittance	on	73.3%	
		off	47.3%	