

off

a whole new light

on

Polyvision™ Switchable Privacy Glass / Film



Bathrooms/Shower enclosures
Clinics
Conference rooms
Hospital
(nurseries, emergency rooms,
ICUs, operation rooms)
Hurricane resistant windows
Optical shutters
Projection displays
Residential enclosures
Security windows
Skylights



(Taiwan)

Polytron Technologies, Inc.
Polytron@polytron.com.tw
TEL: (+886)-3-3712958
FAX: (+886)-3-3712968
www.polytron.com.tw

(USA)

Polytronix, Inc.
PDLC@polytronix.com
TEL: (+1)-972-238-7045
1800-513-0854
FAX: (+1)-972-231-4052
www.polytronix.com

(China)

Polytron Technologies (Xiamen) Co.,LTD
alan@polytron.com.tw
TEL: (+86)-0592-5532571
FAX: (+86)-0592-5532650
www.polytron.com.tw



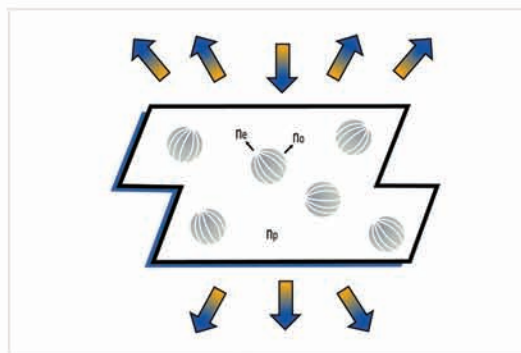
Polyvision™ provides
creative design for
architects &
other technical applications.

TECHNOLOGY

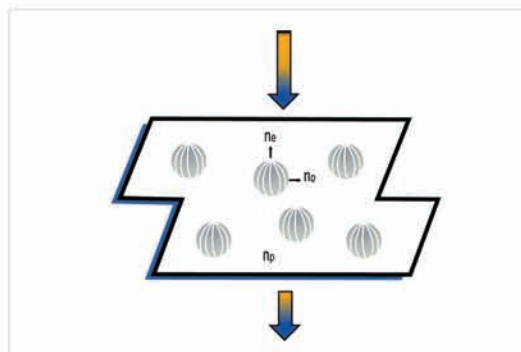
Through Polyvision™, you will see things in a whole new light! At a flick of an electrical switch, Polyvision™ becomes transparent from a cloudy-white translucent state.

UNIQUE FEATURES

Privacy and security with architectural integrity
Visual attention to interior and exterior design
No distracting shutters and drapes
Beauty and Functions Combined!



When the power is off, the liquid crystal molecules are randomly oriented that scatters incident light and Polyvision™ becomes opaque.



When electricity is applied, the liquid crystal molecules line up, the incident light passes through, and Polyvision™ looks clear.



PDLC Light Scattering Mechanism © Polytronix Inc&Polytron Technologies, Inc all rights reserved.

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TECHNICAL DATA



You can combine
POLYVISION™ with
POLYTOUCH™
touch Panel



GLASS COLOR:	Clear, bronze, gray, green tint	
GLASS TYPE: (All laminated)	Annealed, heat strengthened, tempered, heat soak	
THICKNESS:	Interior 5/16" (8 mm) or 7/16" (11 mm) Door 9/16" (14 mm) Exterior 1" (25mm) insulating glass unit (3/16" tempered outer glass + 3/8" airspace + 7/16" clear laminated Polyvision™ glass)	
SIZE:	Up to 60" x 126" (1,524 mm x 3,200 mm)	
SHAPE:	Any shape, including holes anywhere	
ENVIRONMENTAL:	Storage	-20°C to 70°C (-4°F to 158°F)
	Operation	-10°C to 60°C (-14°F to 140°F)
ELECTRICAL:	Driving voltage	65 ± 5 volts A.C.
	Current	less than 20 mA/ft2
	Power	0.5 watt/ft2
SWITCHING TIME:	Approx. 100 milliseconds at room temperature	
OPTICAL:	Transmission	approx. 75%
	View angle	approx. 150°
	Scattering effectiveness	approx. 1 inch
LIFE:	Greater than 10 years (indoors) Claim is supported by manufacturer's testing data	

BENEFITS OF POLYVISION™

1. Largest size in the industry, up to 1524mm x 3200mm.
2. Lowest voltage, up to 24VAC, 36VAC and 48VAC, normal type is 65VAC.
3. Best Privacy performance, Scattering effectiveness approx. 1 inch
4. Best projecting performance to keep good image of projector.
5. Best clear condition, VLT is up to 75%+/-3%.
6. Longest experience (20 years, since 1990) and thousands of projects in the market.

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OFF

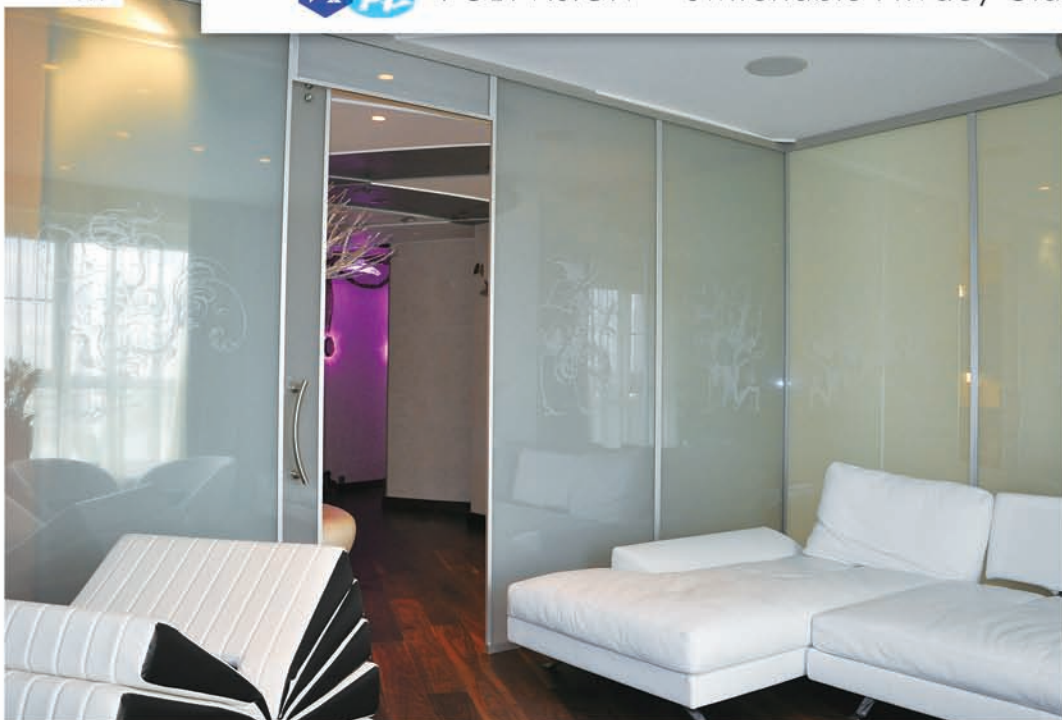


POLYVISION™ Switchable Privacy Glass



ON

RESIDENCIAL ENCLOSURE





OFF

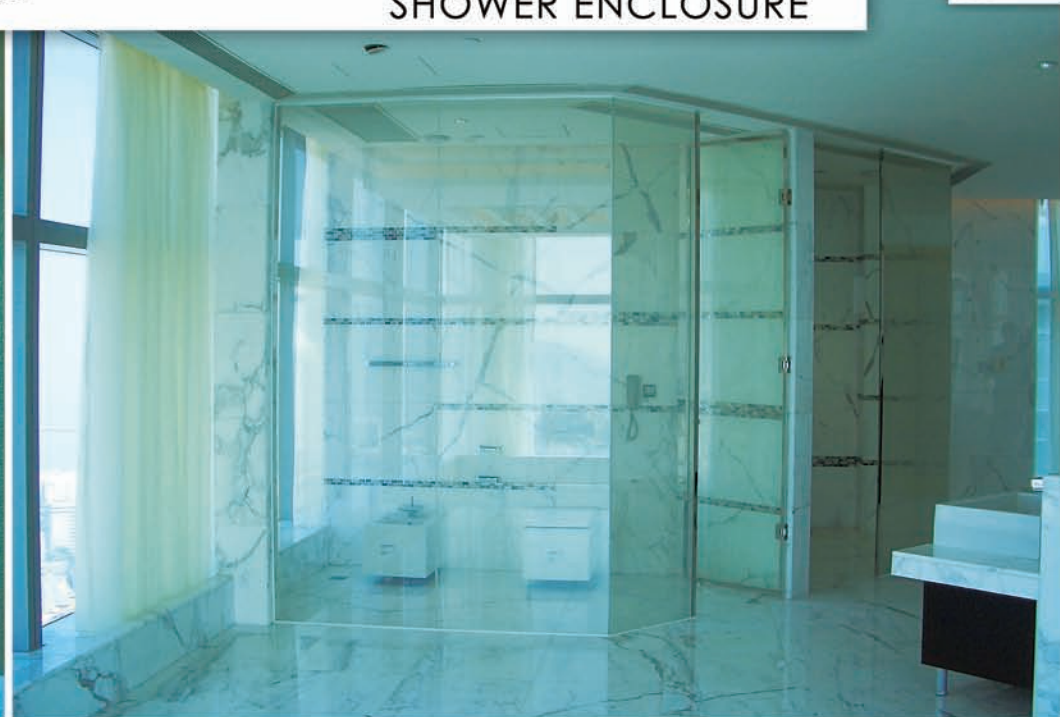


POLYVISION™ Switchable Privacy Glass



ON

CONFERENCE ROOM
SHOWER ENCLOSURE





OFF



ON



POLYVISION™ Switchable Privacy Glass

RESTAURANT
SHOWER ENCLOSURE

