

Switchable Transparent Film(Glass)

Privacy Within a Tick



What Is STF/STG

Yuguang Switchable Transparent Film/Glass puts the user in control, it can be switched between transparent and translucent states instantaneously. The high-tech revolutionary products are widely applied in interior decoration, windows, showroom and a variety of commercial spaces.



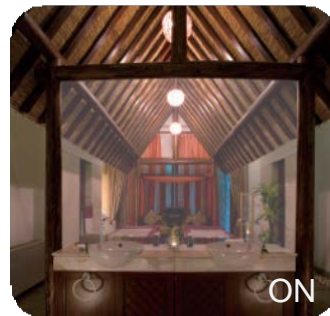
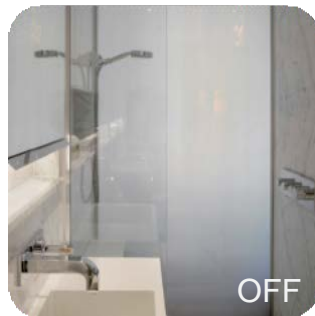
Meeting Room Partition



Hotel Restroom Partition

Applications

Hotel



Office



Reception Desk



Hospital&Beauty Salon



R&D/Factory



Window for Restroom

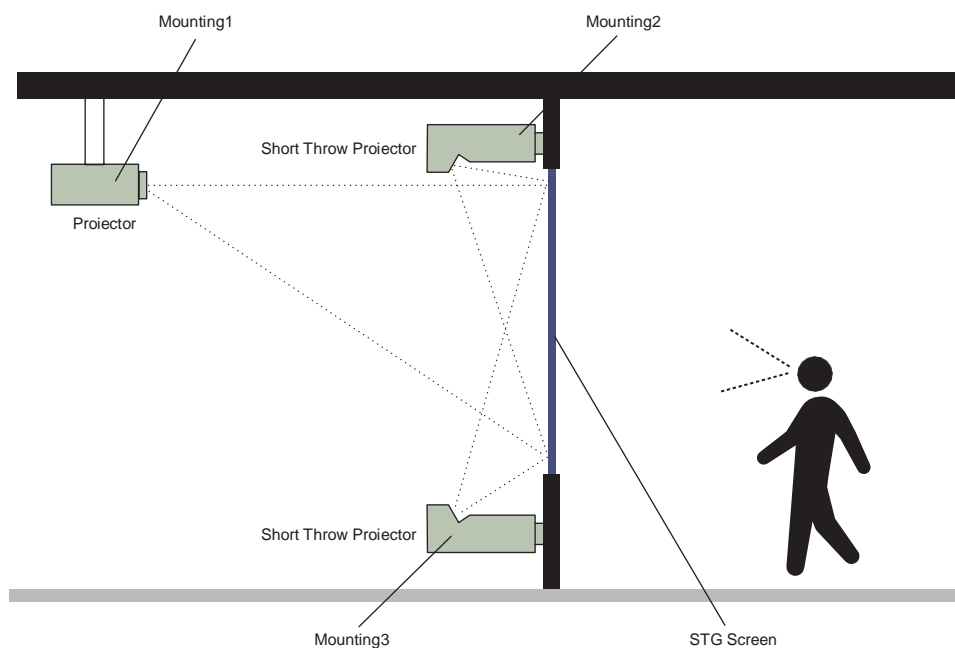


Reception Room





Rear Projection

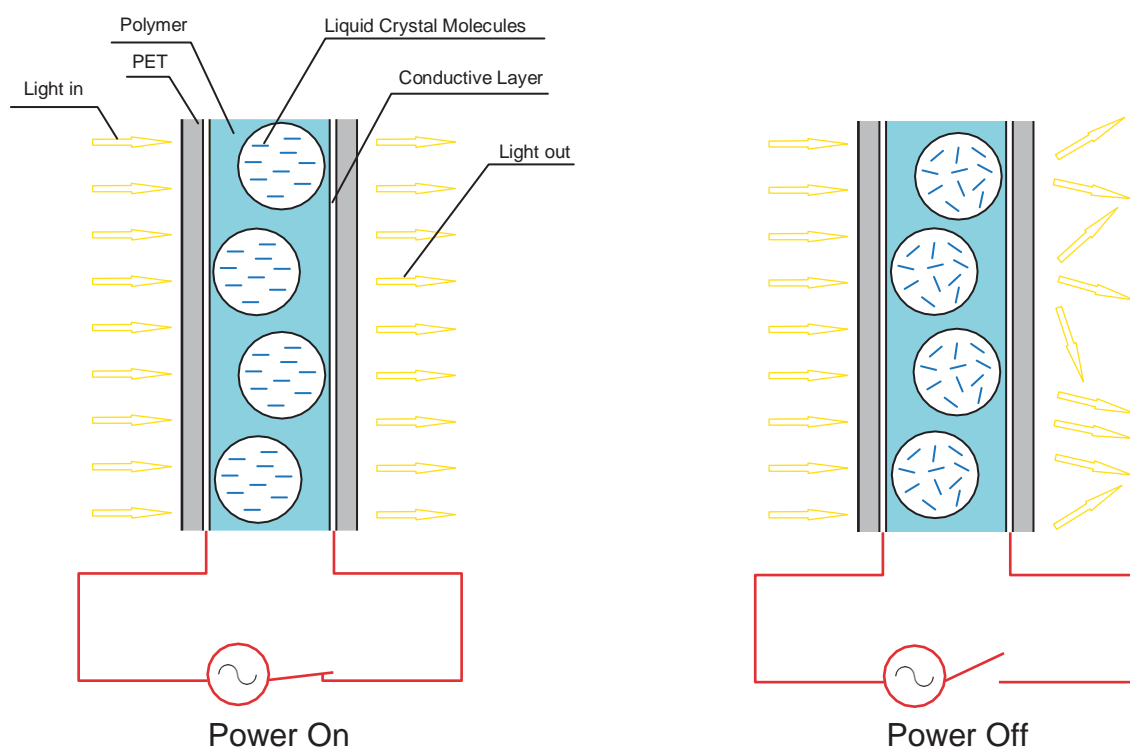


Yuguang STG is a high cost-effective rear projection screen when it is in the translucent state, with the added advantage of being able to be powered on to make the glass transparent and reveal a display behind. When in translucent mode, Goodoing STG allows light to travel through the glass, meanwhile, the molecular-level scattering of light makes an image to be projected onto the glass from behind with high solution using a projector.

In case of the glass is powered on and the projector is switched off, the display behind the glass can be disclosed, making Goodoing STG ideal for shop windows, product launches and training rooms, etc.

How It Works

Yuguang Switchable Transparent Glass(STG) consists of float glass, EVA/PVB and Yuguang Transparent film(STF) that form a kind of laminated glass. The scientific principles lie in the STF, when it is powered off, the liquid crystal molecules fall into a random state, that diffuse light passing through the sandwich structure and to provide instant privacy. When it is powered on, the voltage drive the liquid crystal molecules align along the direction perpendicular to the film, then visible light go through STF and turns transparent.



Control Mode

- Wall Switch Panel
- Remote Control
- Radar Control
- Passive Infrared
- Door Lock Reed Switch
- Light Sensing
- Voice Operated Switch
- Mobile APP Control

Switchable Transparent Film (STF)

STF is a sort of light modulating material comprised of polymer dispersed liquid crystal and flexible ITO film. When it is powered off, visible light scatters through the STF and the film turns opaque. When it is powered on, visible light transmits the STF and the film turns transparent. STF can be used in SA-STF or STG.

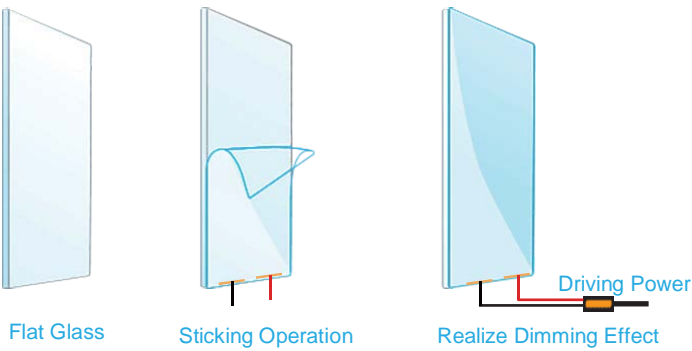


Technical Parameters (STF)										
Optical Characteristics							Electrical Characteristics			
Visible Light Transmission		Parallel Light Transmission		Haze		View Angle of Screen	UV Blocking	Operating Voltage	Power Consumption	
ON	OFF	ON	OFF	ON	OFF	>150°	≥98%	36v/60v/110v AC	<4W/M²	
>82%	>78%	>75%	<3%	<3%	>95%					
Dimension Characteristics				Life Time		Switching Number		Ambient condition	Response Time	
Thickness	Max Size			ON		>2,000,000 次		-40℃-95℃	OFF - ON	通电 - 断电
	STF	STG								
0.4mm	2m*50m		2m*6m		>80,000小时				<50ms	<5ms

Specification
Roll Goods : 1000mm-2200mm (Width)
Customized Sheet : 50mm*50mm-2000mm*5000mm(With Electrodes) Color: Milk White, Grey
Style: Switchable Whole Sheet, Louver Style, With Pattern

Self adhesive smart film (SA-STF)

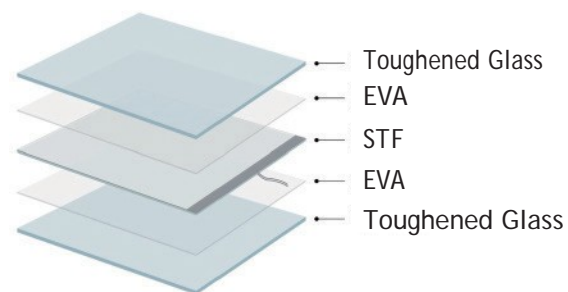
SA-STF is an intelligent film which provides a simple and cost effective alternative to switchable film technology. It is manufactured with a self-adhesive clinging layer on one side (peel and stick) which can directly stick to the existing glass and switch from transparent to opaque instantaneously under voltage.



Specification
Roll Goods : 1000mm-1800mm (Width)
Customized Sheet : 50mm*50mm-1800mm*5000mm(With Electrodes)
Color: Milk White, Grey
Style: Switchable Whole Sheet, Louver Style, With Pattern

Switchable Transparent Glass(STG)

STG consists of toughened glass, EVA/PVB and STF that form a kind of laminated glass.



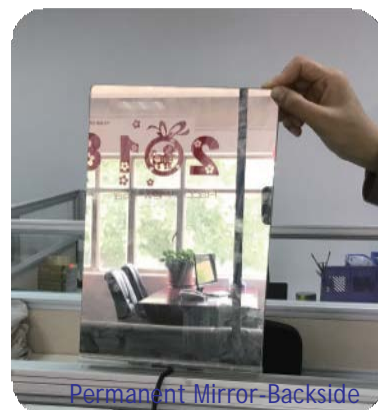
Specification

Max Dimension : 2000mm-6000mm (Customized)

Thickness: 5mm+5mm+2mm-12mm+12mm+2mm Glass:

Standard toughened Glass, Low-iron toughened glass

Style: Standard, louver style, Insulating, Patterned, Fire-resistant, Arcuate, Shaped, Unidirectional



Unidirectional STG



Patterned STG



Shaped STG

STF/STG Power Driver

Wire Control (Remote Control) Power Supply



Rated Input : 110VAC 60HZ or 220VAC 50HZ
 Rated Output: 36VAC, 48VAC, 60VAC, 110VAC; Output Frequency = Input Frequency
 Rated Power: 30W - 500W
 Protective Functions: Overvoltage Protection /Overcurrent Protection/ Overload Protection/
 Short-circuit Protection/ Automatic Recovery Mode
 Extras Functions: Wire Control /Remote Control/Flicker /APP /Wireless Panel /branch Console
 /General Control/Body /Sensing, etc.

High frequency constant voltage gradient Power Supply



Rated Input : 100~240VAC 50/60Hz
 Rated Output: 36VAC · 48VAC · 60VAC : 50Hz Support custom frequency
 Rated Power: 30W - 500W
 Protective Functions: Overvoltage Protection /Overcurrent Protection/ Overload Protection/
 Short-circuit Protection/ Automatic Recovery Mode
 Control Mode: Manual Gradient /Automatic Gradient /Automatic Gradient /Automatic Flicker
 /Speed Adjustment.

MLC Multiline Controller



Input: 30-60VAC
 Output: ≤64 Shunt Single Way
 Dc Electronic Load: 9 and 30 routes Max.6 square meters; 64 way Max.1 square
 Quiescent Mode: All transparent /all opaque /shutter /Transparent up and down and opaque
 in the middle /Opaque up and down and transparent in the middle
 Dynamic Mode: Rolling, convection, crescendo-decrescendo, polymorphic cycle

Switching Power Supply With Wire Control



Rated Input : 110VAC 60HZ or 220VAC 50HZ
 Rated Output: 36VAC · 48VAC · 60VAC · 110VAC ; Output Frequency = Input Frequency
 1W - 20W
 Rated Power: Overvoltage Protection /Overcurrent Protection /Overload Protection /Short-circuit
 Protective Functions: Protection /Automatic Recovery Mode
 Wire Control /Remote Control /Flicker /APP /Wireless Panel
 Extras Functions: Branch Console / General Control /Body Sensing, etc

Multiple Control Mode Switch



Moving Induction Switch



App/Voice Switch



86 Wireless Touch Panel



86 Wireless Panel without Battery

General Control



General Control Function: 2 sets or more than 2 sets of power supply through a remote control
 Effect: over 500W large area smart glass support a remote control

Branch Console



Branch Console Function: the glass is divided into 2 or more control channels
 Effect: Through a remote control, respectively control one or more paths in the branch



Company Profile

Shenzhen Yuguang New Material Co., Ltd is a comprehensive and professional provider of intelligent light control solutions , we have accumulated more than ten years experience in the field of intelligent light control , smart home solutions, artificial intelligence and intelligent construction , we devoted to provide various professional light control solution , smart products and professional technical services for global customers .

Thanks to professional technology and excellent after-sale services , we have successfully launched a series of high-quality products such as smart light control products , interactive digital signage , and smart home products , which have attracted wide attention and favor from the industry and user markets .

Environmental protection and safety is the commitment of Yuguang to each customer . The quality first is the truth of Yuguang . Our products strictly implement the ISO9001 and ISO14001 standards from product planning and design , material inspection to production and manufacturing process control . Shipment and recycling of waste materials all meet environmental protection criteria and meet EU ROHS standards .

The management creed of Yuguang is : Only win-win , can coexist . Taking advantage of the company's comprehensive strengths , we conduct in-depth communication with client at the beginning of the project , planning and designing in accordance with fully understanding all requirements of clients , so as to provide most suitable scheme .



