



INTELLIGENT GLASS®

SWITCHABLE GLASS SOLUTIONS
FOR THE MODERN HOME



SWITCH ON TO INTELLIGENT GLASS



“We actively explore the most innovative solutions to push the boundaries of what we deliver to clients. During the product research we put substrate options through rigorous testing before we finally decided on the Switchable Smart Film.”

- Stuart Henry

HISTORY

Since 2004, we at Intelligent Glass have been refining and perfecting our range of patented Switchable Glass solutions for use in homes all over the globe. As the UK's longest serving manufacturer of smart glass technology, we are dedicated to quality and reliability, providing instant and controllable privacy on demand.

Our Research & Development team have developed both existing and new technologies, from optimising the integral liquid crystal interlayer, to creating innovative products such as retrofit Switchable Film, battery powered Switchable Vision Panels and curved Switchable Glass.

For over 15 years, we've dedicated ourselves to continuously improving our Switchable Glass solutions for home transformations, developing discreet installation techniques as well as retrofit products for hassle free integration into your home.

We're often specified by architects and interior designers alike, providing contemporary switchable privacy solutions for homes worldwide, including award winning residences and dream homes featured on the likes of 'Grand Designs', 'Extreme Makeover: Home Edition' and 'George Clarke's Amazing Spaces'.

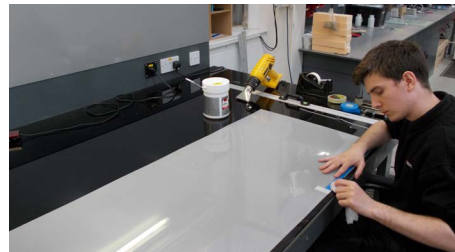
MADE IN BRITAIN

We're proud to be the UK's longest serving Switchable Glass manufacturer, with our industry leading facilities enabling us to produce Switchable Glass products of the highest quality for over a decade. Our illustrious reputation has been built on the back of many years of hard work, from collaborating with some of the world's leading brands to revisiting and refining our in house manufacturing techniques.

With years of experience working for high profile clients, we've created a manufacturing process that ensures only products of the highest quality leave our facilities. We offer a promise that all of our Switchable Glass products are manufactured in a clean room environment, minimising the risk of manufacturing imperfections, to ensure that you receive the very best product possible. Our switchable technology is produced on-site using the latest in manufacturing equipment, allowing us to offer a huge range of products including custom and specialist solutions. Our production facilities boast the highest quality output and specification available on the market.

HANDLED WITH CARE

We take great care in our craftsmanship and are proud of all of the accolades we have received. Each piece of glass and film endures a rigorous quality check and testing process before dispatch, guaranteeing the high performance of each product before it leaves us. Our history of providing switchable technology for both UK residents and customers overseas has given us extensive shipping experience, protecting the fragility of our glass and film by making sure every product is packed to perfection before dispatch. We hand-craft each crate bespoke to the order, designed with protection in mind, handing our shipments over only to our trusted network of hauliers and freight providers.





SWITCHABLE IN THE HOME



We have been specified for some of the world's leading brands and in recent years we've seen a huge increase in demand for Switchable Glass in the home. Switchable Glass has never been so easy to install, even available in a self-adhesive format for retrofitting to existing glass panels; quick, simple and cost effective, we have a smart glass solution for everyone!

With more people looking to renovate, extend and improve their current home rather than moving out, Switchable Glass is a timeless interior feature that will continue to wow family and friends for years to come. As the manufacturer, we can make Switchable Glass to your precise requirements, working with architects, builders and installers to find the right solution for you. Our solutions cover a wide range of glass options that satisfy many needs, including sound insulating, fire rated and even coloured Switchable Glass.

You'll be surprised what you can make switchable: double glazing, internal and external doors, skylights, sunrooms, conservatories, partitions, gable end glazing, cabinets ... The list goes on!



SMART ACCESSORIES

Our Switchable Glass can be integrated into your home in a multitude of ways, designed to make its use as easy for you as possible. All of our Switchable Glass products can be mains wired to be controlled via a wall switch, in the same way as most standard ceiling lights. Alternatively, control your privacy in the palm of your hand with our remote control and RF receiver, letting you operate your Switchable Glass from up to 25 meters away!

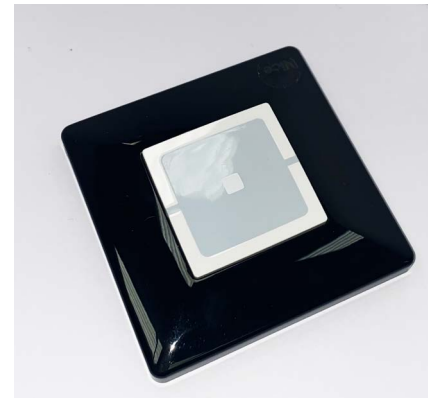
Our entire Switchable Glass and Film range can also be switched using voice automation, by connecting to smart home devices such as the popular Amazon Alexa and Google Assistant.

All of our switchable products require a transformer. With design in mind, our transformers are small in size and easy to hide, integrating into your home without compromising on your interior.



By adding a voice activated dimension to smart glass technology, it pushes the limits of just how impressive it can be. Wow your family and friends like never before as you command your glass to switch from frosted to clear, and vice versa. Reach a new level of convenience, style and simplicity, as we make it easier than ever for you to activate our products...

“Alexa, Switch my glass!”

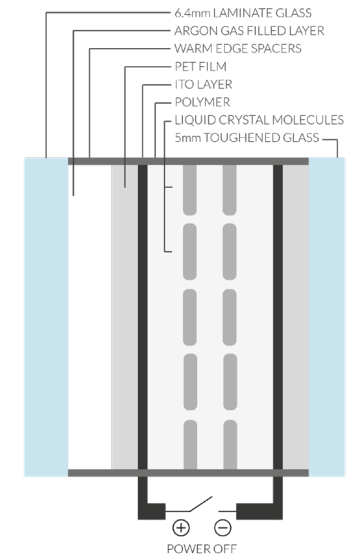




SWITCHABLE DOUBLE GLAZING

Our Switchable Double Glazing utilises a warm edge spacer bar with an argon filled air gap in between to offer greater insulation and performance. Depending on your requirements we offer a variety of glass options e.g. low iron, low E coatings to provide you with the most efficient Switchable Glass windows on the market today.

Available in three standard thicknesses, 18mm, 24mm and 28mm (custom sizes are available on request), our product is simple to install just like any double glazed sealed unit. Enjoy the benefits of insulated glass making your room warmer in the winter and cooler in the summer, with the added benefit of privacy on demand.



Specification

- Standard thickness of sealed units 18mm, 24mm and 28mm
- Maximum single unit size 1.8 x 4.0 metres
- Energy efficient sealed units (Argon filled)
- Operating power 50VAC, frequency 50/60Hz
- Power consumption 5 watts & current 0.1 amperes per m2

Benefits

- Energy Efficient
- Panel size up to 4 metres
- Easy maintenance and cleaning
- Low energy consumption
- Custom panel sizes made to order

Applications

- Conservatories / Bi-Folds
- Sky Lights / Glass Roofs
- Bathrooms / Kitchens
- External Glazing / Windows
- Replace Blinds / Curtains



REDUCES HEAT LOSS



SOUND INSULATING



REMOTE CONTROLLABLE

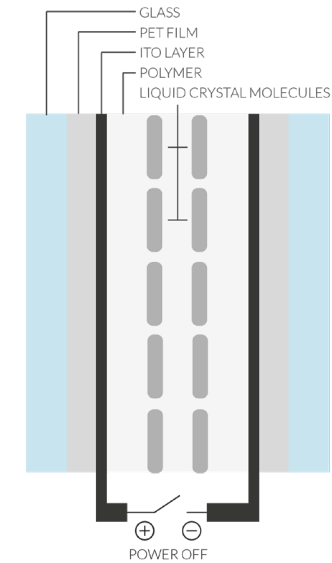
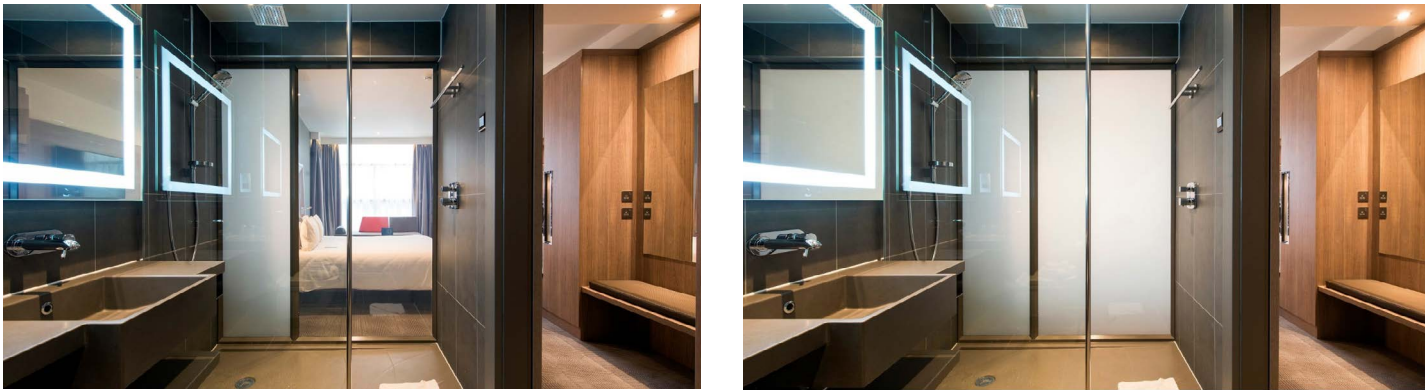


SMART HOME COMPATIBLE

SWITCHABLE LAMINATE GLASS

The seamless nature of laminate glass means that panels can be positioned side by side (glass to glass) without the need for any vertical frames. Switchable Laminate Glass is the ideal choice for creating glass walls and room dividers, creating a very minimal and contemporary look that maximises natural light in your home.

With Switchable Laminate Glass, the switchable interlayer is protected, being bonded between two sheets of toughened glass, making it a safer product that's more durable in certain areas of the home, including high traffic areas, bathrooms, kitchens etc. Two standard glass thicknesses are available 12mm and 14mm (custom sizes available upon request). We can also create custom shapes designed with your interior in mind, including solutions for listed buildings and more traditional homes.



Specification

- Standard glass thicknesses 12mm and 14mm
- Maximum single panel size 1.8 x 4.0 metres
- Multiple panels can be joined to create glass walls & partitions
- Operating power 50VAC, frequency 50/60Hz
- Power consumption 5 watts & current 0.1 amperes per m2

Benefits

- Toughened / security glass
- Panel size up to 4 metres
- Easy maintenance and cleaning
- Low energy consumption
- Frameless glazing offering acoustic properties

Applications

- Vision panels / Doors
- Glass Walls / Dividers
- Staircases / Bannisters
- Bathrooms / Dressing Rooms
- High Traffic Areas



STRONG & DURABLE



LAMINATED GLASS



REMOTE CONTROLLABLE



SMART HOME COMPATIBLE



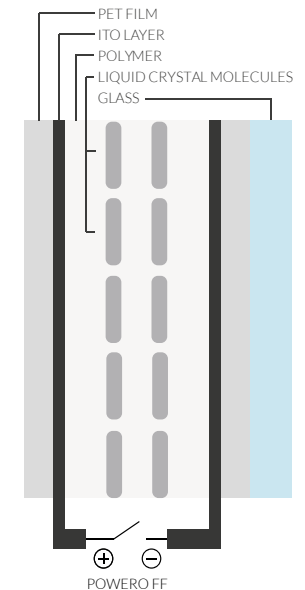


SWITCHABLE TOUGHENED GLASS

Toughened Switchable Glass is one of our most popular options worldwide, due to its cost effective nature. Created by coating the liquid crystal switchable element directly to a toughened glass panel, this budget friendly solution is fast becoming a regular feature in the modern home.

Our switchable coating can be applied to any type or thickness of glass (including fire rated), providing you with a solution that boasts optimum clarity and performance that's also manufactured with a quick turnaround, ideal for time sensitive renovations.

Our toughened Switchable solutions use glass in thicknesses from 5mm to 15mm (custom sizes and shapes also available).



Specification

- Standard glass thicknesses from 5mm to 15mm
- Maximum single panel size 1.8 x 4.0 metres
- Multiple panels can be joined to create glass walls & partitions
- Operating power 50VAC, frequency 50/60Hz
- Power consumption 5 watts & current 0.1 amperes per m2

Benefits

- Cost effective
- Panel size up to 4 metres
- Easy maintenance and cleaning
- Low energy consumption
- Custom panel sizes made to order

Applications

- Privacy / Security Glass
- Glass Walls / Room Dividers
- Kitchens
- TV / Video Screens
- Furniture / Cabinets



TOUGHENED GLASS



CUSTOM APPLICATIONS



REMOTE CONTROLLABLE

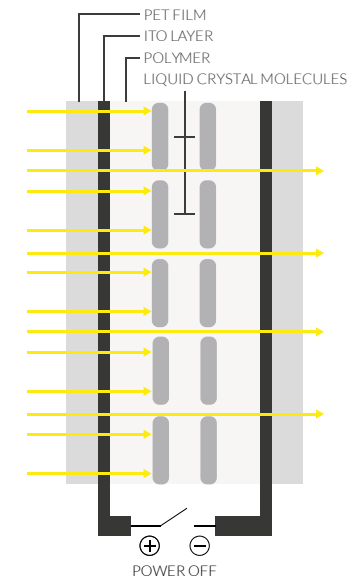


SMART HOME COMPATIBLE

SWITCHABLE FILM

Designed to retrofit onto existing glass in your home, our Switchable Film provides a simple and cost-effective alternative to other smart glass technologies. It's manufactured with a self-adhesive surface on one side making this product the ideal choice for DIY installations on your windows, doors, room dividers; the possibilities are endless!

Our Switchable Film offers all the functionality of Switchable Glass and is available in sizes up to 1.5m x 4m with custom sizes and shapes available on request, made to measure to fit your exact interior requirements.



Specification

- Self-adhesive film - thickness 0.75mm
- Maximum single panel size 1.5 x 4.0 metres
- Multiple panels can be joined to create glass walls & partitions
- Operating power 50VAC, frequency 50/60Hz
- Power consumption 5 watts & current 0.1 amperes per m2

Benefits

- Simple to install
- Panel size up to 4 metres
- Standard panel widths up to 1500mm (59")
- Easy to maintain and clean
- Low energy consumption

Applications

- Windows / Glass Walls
- Sky Lights / Vision Panels
- Counters / Furniture
- Conservatories / Sunrooms
- Video Projection Screens



SELF ADHESIVE



RETROFIT APPLICATION



REMOTE CONTROLLABLE



SMART HOME COMPATIBLE







SWITCHABLE DOORS

Switchable Doors are a great way to make the most of your space, keeping smaller rooms private without blocking out natural light. Commonly used in en-suites, home offices and snugs, our Switchable Glass Doors can be integrated into frameless door systems and made to measure to meet the exact requirements of your home.

Offering privacy on demand, our Switchable Doors allow you to control the view into or out of a room in seconds, allowing you to show off your interiors to family when desired but switch to frosted when the space is occupied. Our Switchable Glass adds an interior design wow factor that standard doors, blinds and curtains just can't match.

With a minimalist installation in mind, our cabling solutions ensure a neat setup, with all cables fixed in place securely when the doors are open, and discretely hidden once the doors are closed, blending seamlessly into any interior.



Specification

- Sleek & minimalist design
- Maximum single panel size 1.8 x 4.0 metres
- Creates seamless Switchable Glass walls
- Operating power 50VAC, frequency 50/60Hz
- Range of door fittings on offer

Benefits

- Panel size up to 4 metres
- Discreet wiring to mains power
- Easy to install, maintain and clean
- Low energy consumption
- Custom made sizes to order

Applications

- Internal Doors
- Play Rooms
- Offices
- Room Dividers
- Study rooms



EASY TO INSTALL & MAINTAIN



CUSTOM APPLICATIONS



REMOTE CONTROLLABLE



SMART HOME COMPATIBLE

SWITCHABLE VISION PANELS

One of our latest innovations is our Switchable Vision Panels, allowing discreet visibility into (or out of) your home at the push of a button. These vision panels are ideal for installation into your front door, often letting a huge amount of uninterrupted natural light into your home throughout the day whilst maintaining your privacy.

In its frosted, unpowered state the panel acts as an opaque blind, giving your home complete privacy. Never again should you open the door to an unwanted visitor, while the button is pressed the switchable element is clear allowing you to check your doorstep without needing to open the door! These panels can also be installed in internal doors and are ideal for playrooms, where your child's privacy can be maintained but your supervision can continue without interruption. Powered by a replaceable AA battery pack, concealed within the door, our Switchable Vision Panels work independently of mains power, giving you excellent flexibility and little to no disruption during the installation.



Specification

- Safety switchable vision panel system
- Push button switch & low battery indicator
- Battery powered
- Integral solution
- Retrofit kits available

Benefits

- No external wires
- Simple Installation
- Low power warning LED
- Low maintenance with 2 year battery life
- Custom panel sizes & shapes

Applications

- External / Internal Doors
- Play Rooms
- Offices
- Furniture
- Study rooms



PUSH BUTTON OPERATED



RETROFIT APPLICATION



BATTERY POWERED



CUSTOM SHAPES AVAILABLE





Disney
TRON
LEGACY

0/60
MPH
000000

EXTREME
MAKEOVER
Home Ed

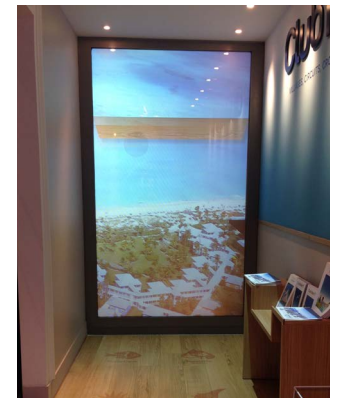
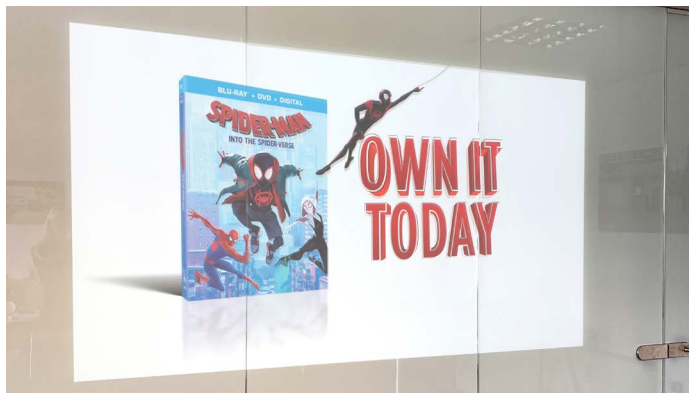
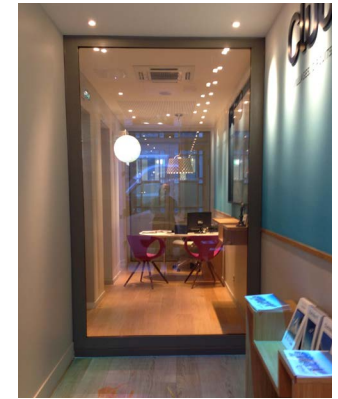
TRON

SWITCHABLE PROJECTION

Why not transform existing glass in your home into a switchable projection surface! Our Switchable Projection Screens are a great space saving solution, transforming a modern glass wall into a TV screen that disappears on command. Requiring only a projector to work, these Switchable Glass screens support HD/4K content and are ideal for more flexible areas in the home.

Create your very own 'outdoor cinema' by turning your sliding doors into a high definition screen, projecting onto our Switchable Film from behind transforms your windows and doors ready for Garden viewing.

Our glass screens are available in custom sizes and specifications or as a retrofit film product for existing spaces in your home.



Specification

- Ultra clear switchable glass wall (50VAC)
- Maximum glass panel size: 1800 x 4000mm
- Multiple panels are positioned side by side to create a projection wall
- 4K/HD projection surface
- Rear or front projection options available

Benefits

- Dual functionality
- Panel size up to 4 metres
- Easy maintenance and cleaning
- Low energy consumption
- Custom panel sizes made to order

Applications

- Room Dividers
- External Viewing Screens
- Games Rooms
- Home Cinemas
- Play Rooms



4K/HD PROJECTION SURFACE



RETROFIT APPLICATION



REMOTE CONTROLLED



SMART HOME COMPATIBLE

SPECIALIST SWITCHABLE GLASS

Every piece of Switchable Glass and film we manufacture is bespoke to the customer, made to measure to ensure a seamless installation into your home. Our specialist Switchable Glass range is designed to provide the same reliability of privacy on demand, with the added benefit a bespoke appearance.

Looking for an extra layer of privacy? Our Switchable Dark offers a sleek grey effect and brings a cosier atmosphere to any room. To create a brighter feature for your home, why not consider our Coloured Switchable Glass or Switchable Mirror Effect Glass, creating feature walls that won't block out natural light. For a unique office or en suite design, our Curved Switchable Glass creates a modern, sweeping divider, guaranteed to enhance the interior of any home creating a brighter, more pleasant space to live.



Options

- Switchable Dark
- Switchable Mirror Effect Glass
- Curved Switchable Glass
- Coloured Switchable Glass
- Custom Shaped Glass

Benefits

- Panel size up to 4 metres
- Easy maintenance and cleaning
- Low energy consumption
- Custom panel sizes made to order
- Can be seamlessly integrated into your home

Applications

- Display cabinets
- Feature walls
- Privacy windows & doors
- Internal dividers & walls
- Games rooms & dressing rooms



SWITCHABLE DARK



SWITCHABLE MIRROR EFFECT



CURVED SWITCHABLE PANELS



COLOURED SWITCHABLE GLASS





CASE STUDY: Number 23



Number 23 is a multi award-winning family home constructed on a vacant site in West London. The signature 'floating box' window on the front elevation is enhanced through the use of Switchable Glass, turning from frosted to clear at the press of a button.

The simple frontage conceals a house that is 30% bigger than its neighbours, despite occupying a 20% smaller plot. Although the design has a distinctly playful tone, its architectural intentions are serious, it's designed to demanding Code 4 Environmental Standards.

Intelligent Glass switchable technology brings light into every room in the house, whilst providing instant privacy whenever it's needed. At night time, when the internal lights are on and the switchable panels in opaque mode, a warm diffuse glow is cast to the street outside. Such generous glazing means that daylight fills every room in the house, even the basement, and is complemented by a combination of roof lights and sun pipes.



CASE STUDY: Collard Towers



Collard Towers is a passion project featured on Channel 4's 'Building the Dream', built to make the families dream home a reality in Hilton, Cambridgeshire. Owned by lovers of technology, they wanted to build a home that was filled with gadgets but had the modern and cosy feel of a traditional family home.

One of these gadgets was our Switchable Double Glazing, set pride of place in the entrance of the stunning home. Installed by the homeowners themselves, our Switchable Double Glazing allows huge amounts of natural light to flow into the atrium throughout the day, whilst still providing them with privacy at their disposal.

The insulated glazing ensures that even panels this size have optimum thermal performance all year round, keeping the heat in and the gaze of nosey neighbours out!

These panels are also connected to the families smart home automation system, controlled by the hugely popular Amazon Alexa, turning from frosted to clear by simply saying, "Alexa, turn on front window!"



As seen in

Daily Mail



**GRAND
DESIGNS**



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