ACRYLIC TWO WAY MIRRORS EXPLAINED

Front Side ● ● ●

HOW?

Back Side ● ● ●

What is a two way mirror?

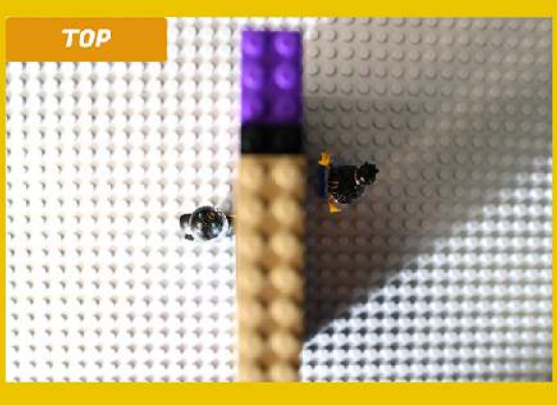
No, its not magic. It's SCIENCE!

A two way mirror, also known as a one way mirror, is a semi-transparent mirror that is traditionally made for privacy and security purposes. It is made on a grey glass or acrylic substrate and the mirror coating is baked/sprayed on during the manufacturing process.

Front side of acrylic two way mirror with pen touching the surface.

LEGO FIGURES EXAMPLE

We've constructed a mock wall with two way mirror within a lego wall.On either side we have a figure to demonstrate the reflection and light transmission. Notice the Light is much brighter on the front side of the mirror with the reflection coating compared to the back.



The appearance of acrylic two way mirror is reflective from both sides and can pass the "Finger Tip Test". With lighting darker on the observation side, the observer is able to see straight through it, but from the other side all you see is a regular mirror when the lighting conditions are ideal.

Advantages of Acrylic Two Way Mirror

An acrylic two way mirror reflects 70% of light, allowing the rest to pass through. This makes it more transparent and color neutral than a glass two way mirror, It is ideal for security applications where extra strength is needed, or for recording through the mirror.

Cartoon interrogation drawing using two way mirror.

Product Features

- Stronger than glass
- Excellent viability
- Resembles regular mirror
- combine with existing window
- multiple colors available
- works with touch overlay
- Passes "fingernail" test

Applications

- Smart Mirror
- Education
- Architecture
- Home Privacy
- Photo Booth
- Interrogation Room
- Market Research
- Store Security
- Reality Television
- Stage Magic
- Pepper's Ghost
- Scientific Research
- Security Cameras
- Infinity Mirror
- Animal Research
- Safe Room

Reflective side of mirror from inside interrogation room

Examples of Observation Rooms

We have all seen a cop drama TV show or film in which a criminal suspect is interrogated while police watch from behind a mirror. Why can't the suspect see those watching him behind the mirror?

Transparent side of mirror from observation side

The answer lies in the level of lighting in both rooms. The room the suspect is in is kept very brightly lit, so that the light in the room reflects off the mirror's surface. The observation room containing the police, on the other hand, is kept dark, so that little to no light gets through the mirror.

Suspect being interrogated on reflective side of mirror

As a result, the suspect sees only his own reflection and the police see into the suspect's room clearly. If the lights in the suspect's room were suddenly turned out, or the lights in the observation room suddenly turned on, then the two way mirror would become a window.

It's the same sort of effect you see in a mirrored office building at night — if there is a light on in one of the offices, you can see into that office just fine.

Acrylic two way mirror cuts/drills easily!

Questions? We've got answers

With 20 years experience manufacturing two way mirrors, our team of engineers & glaziers has the expertise to quickly and accurately answer any questions you have.

I'm James, sales engineer for Two Way Mirrors.

Feel free to contact me at,

james@twowaymirrors.com
(419) 787-4526

Hi, I'm Krista, sales manager for Two Way Mirrors.

Please contact me at,

(419) 461-0710
krista@twowaymirrors.com

For More Information Please Visit

https://www.twowaymirrors.com/acrylic/