



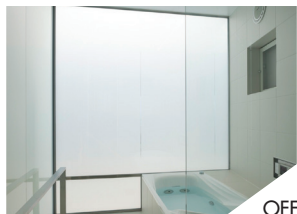
## SMART FILM SERIES

### BEYOND INTELLIGENT

Created using proprietary liquid film technology, Rayno Smart Film is the world's thinnest and most advanced switchable film. With simple on/off controls, this film transforms from opaque to transparent, allowing walls and windows to switch from private and projectable to sleek and clear.

Easy installation and maintenance allow for infinite applications, making Smart Film an ideal solution for flexible spaces like showrooms, meeting rooms, offices and event venues.

## PRIVACY



OFF



ON



OFF



ON

## PROJECTIONS



Rayno Smart Film enhances your life with innovation in a variety of ways. In addition to offering privacy, this window film also provides extra protection from the sun—rejecting nearly 99 percent of UV rays and 90 percent of IR rays. And as the most energy efficient intelligent film available, Smart Film boasts a longer average life cycle and greater durability.

## PRODUCT DETAILS

- World's first 120  $\mu\text{m}$  switchable film
- Low power consumption
- Wide operating temperature range
- Customizable color options
- Can be attached/detached to existing constructed glass
- Large film width offers flexible application and design options
- Easily transportable and storable in roll format

## SPECIFICATIONS

<b>MODE AND APPEARANCE</b>	Appearance	Translucent (Power Off) Transparent (Power On)
	Color Options	Clear, Light Blue, Milky, Red, Yellow, Black & More
	Thickness	120 $\mu\text{m}$ (micrometers)
	Sheet Size	Up to 3.94 ft x 11.48 ft (Can be Cut and Combined to Fit Any Dimension)
<b>OPTICAL PERFORMANCE</b>	Haze (On)	< 3.0%
	Transparency (On)	> 83.0%
	Visible Light Reflection Rate	< 1.5%
	Viewing Angle	> 160° at Clear Stage 360° Viewable for Projection Viewing Angle
<b>ELECTRIC PERFORMANCE</b>	Driving Voltage	60±10 V (AC, 50/60Hz, less than 3.28 ft x 8.20 ft)
	Current	0.20 (A/m <sup>2</sup> )
	Energy Consumption	.00077 (W/in <sup>2</sup> )
	Response Time	< 0.05 sec Powering On < 0.1 sec Powering Off
<b>PHYSICAL PERFORMANCE</b>	Operating Temperature Range	-13° F to 149° F
	Storage Temperature Range	-58° F to 158° F
	Operational Lifetime	> 3,000,000 Switching Times