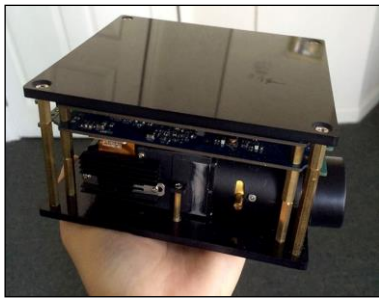




SUN INNOVATIONS



RG Films Display Demo

Multi-Color HD Emissive Real-Image HUD SDK

Our latest LED-DLP projection on a proprietary transparent screen offers a bright and colorful emissive display for Head-Up Display and retail signage applications:

- HD, color TV-like HUD on haze-free screen for vehicles, boats, aircraft, heavy equipment
- Display image anywhere on a glass window, with unlimited field-of-view and viewing angles
- Miniature LED-DLP projection on thin film screen, easily installed to work on any glass window

Emissive HUD Features

- Fully-transparent film screen readily applies to any vehicle glass
- HD, high-quality video projection is compatible with existing video formats via HDMI
- Readily installed miniature screen and projector and integrated into a network
- Visible in daylight, even brighter at night and in low-light environments
- Ideal for commercials and information display on windows of trains, buses, taxis, and limos

MediaGlass™ Ideal Storefront Window Display Solution

- Transparent window film does not block the view inside or outside the store
- Projects large, scalable "free-style" video images viewable from both sides
- Projected images are mostly blocked by the screen, very low leak-through of light
- Monetizes existing storefront windows as advertising space
- Attracts shoppers' attention, increases foot-traffic and revenue

Projector Specifications

Parameters	Specifications
Display technology	TI DLP 0.45" DMD
Physical resolution	WXGA (1280*800)
Light source	5.5W 405nm LED 4W 460nm LED for RG ; or 4W 380nm for RB
Throw ratio	1.09
Image offset	0%
Image size	12.8"@0.3m
Working distance	0.15~0.5m
Aspect ratio	16:10, 4:3
Contrast (FOFO)	1000:1
Uniformity (JBMA)	90%
Input interface	HDMI
Power supply	DC 12V, 5A
Dimension	4" x 5" x 2.5"

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Film Specifications

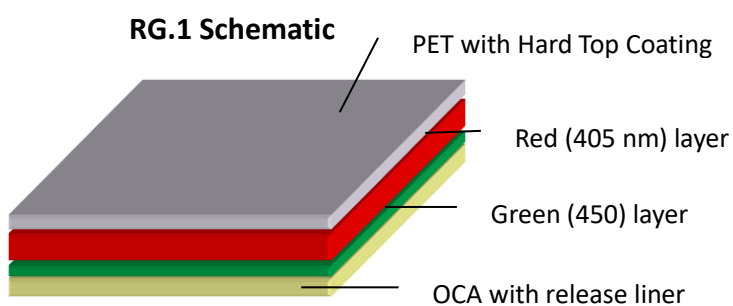
RG1 and RB Screen (Top) and RG.2 screen(Bottom)



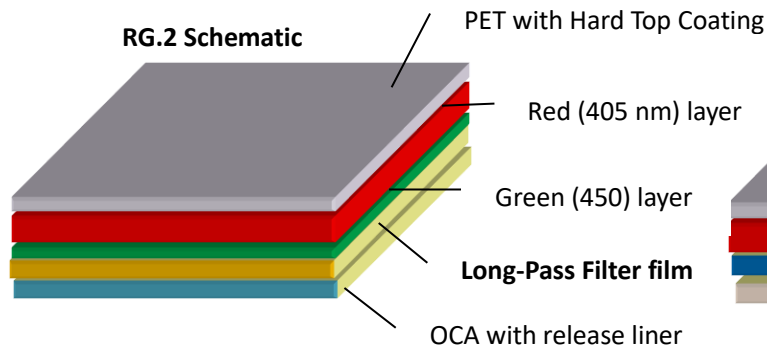
Screen specifications

Display Screen Type	RG.1 (Indoor)	RG.2 (Outdoor)	RB
Screen Material	PET	PET	PET
Display Primary Color	Red-Green	Red-Green	Red-Blue
Screen Body Color	Clear	Tea Color	Virtually Colorless
Adhesive Option	Standard	Standard	Available
UV Protection	Standard	Standard	Optional
Scratch-Resistant Hard Coating Option	Standard	Standard	Not Available
Visible Light Transmittance (VLT)	~80%	~30%	~80%
Optic Haze Level	~1%	~2%	~1%
Typical Excitation wavelength	405/460 nm	405/460 nm	380/405 nm
Typical Emission wavelength	616/515 nm	616/515 nm	616/475nm
Reflectance (Anti-Reflective Option Available)	5~10%	5~10%	5~10%
Absorption Efficiency (405 nm)	>99%	>99%	>99%
Absorption Efficiency (460nm or 380nm for RB)	>60%	>99%	>99%
Screen Thickness (microns)	70	110	100

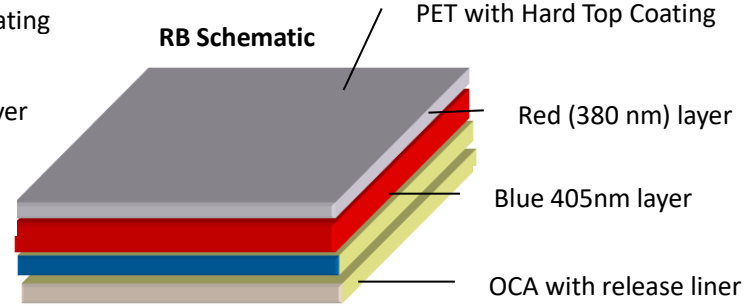
RG.1 Schematic



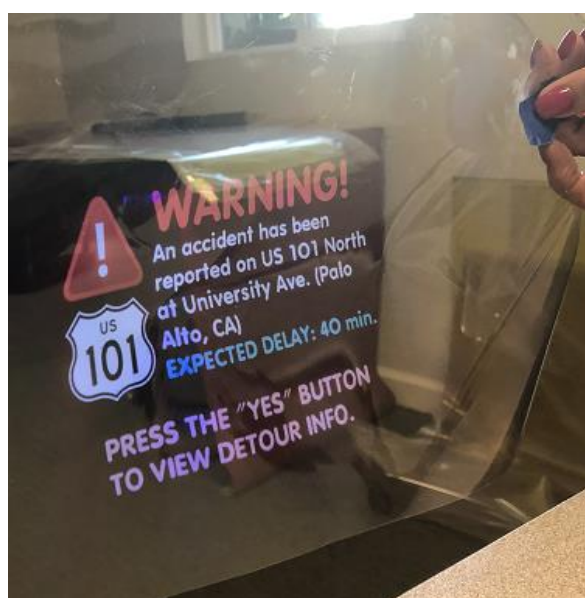
RG.2 Schematic



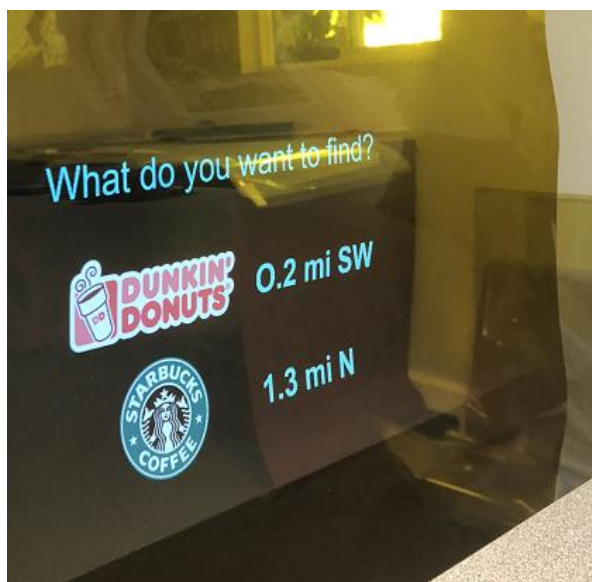
RB Schematic



Display image on RG.1



Display image on RG.2 screen



Display image on RB Screen



Additional Product Info and Options:

- 1. Adhesive backings** (standard on RG.1 and RG.2, optional on RB)
 - Pressure-sensitive adhesive (PSA) can be laminated on a surface, for example, glass panels, windshields, or even dashboards.
 - For curved surfaces, such as a windshield, professional application by a window or auto-tinting technician is recommended.
- 2. Anti-reflective Coating (AR) Option** – recommended when maximum transparency is desired
 - Reduces shine on the screen's surface, Increases screen transparency
 - For maximum transparency, request AR coating on both sides of the screen. If the screen will be laminated on a surface, a separate piece of AR film can be ordered for application on the back side of your surface.
- 3. Contrast Enhancement Tint Option** – Recommended for Outdoor Display Applications
 - Reduce the solar glass and VLT to 20%;
 - Increase the display brightness and image contrast significantly;
 - Block the emissive image from being viewed from outside of the glass panel

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