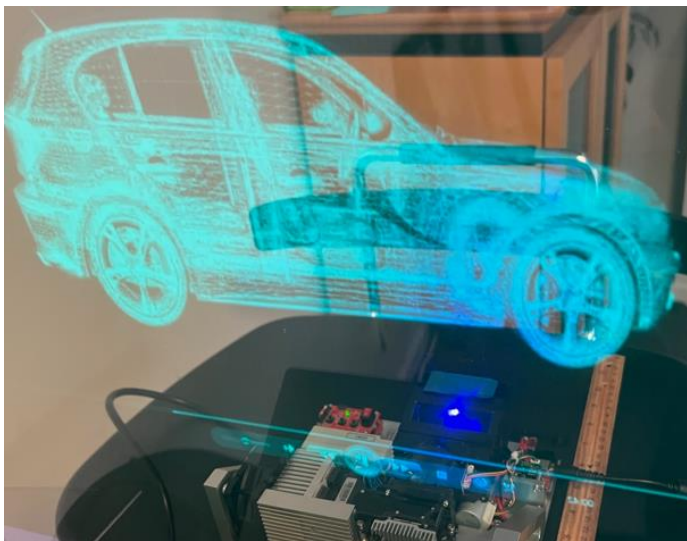
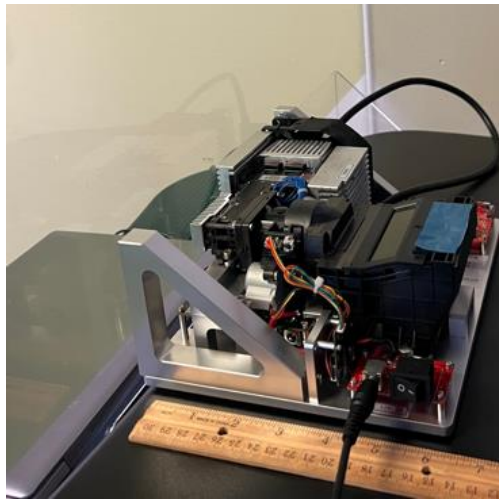




SUN INNOVATIONS



Emerald UST

Ultra-short throw Green Emissive Display Kit for Digital Signage on Glass Windows & Plexiglass

Emerald UST, our most recent high-power Blue (460 nm) LED DLP projector, features an ultrashort throw optics for space saving closeup projection onto our crystal clear green emissive screens. It can convert store windows or plexiglass (e.g. sneezeguard) of any size to a fully transparent emissive display with unlimited viewing angles.

Sun Innovations' custom-built, full-windshield HUD developer's kit

- Crystal-clear (no haze and very light tint) emissive screen applicable to any glass/plexiglass;
- Scalable bright display in room light with unlimited (360 degree) emissive viewing angles
- Projection light largely absorbed by screen, the transmitted light leave at high undisturbed angle
- Crystal clear green emissive screen with extremely low haze (~1%), for window film quality
- Custom-built compact LED projector with close-up (UST) projection optics to save the space;
- Compatible with HD-video or image via standard HDMI interfaces;
- Available options of brighter or more transparent green emissive screens.

Projector specifications

Parameters	Specifications
Display technology	TI DLP
Physical resolution	960x540
Light source	Blue LED (460 nm)
Projection output optic power	~700 mW
Throw ratio	0.22
Image offset	140%
Image size	30" @ 6 cm (2.4")
Working distance	1" to 12"
Aspect ratio	16:10, 4:3
ANSI Contrast Ratio	200:1
Uniformity (JBMA)	75%
Input interfaces /power supply	HDMI /12V 5A
Projector Dimension (W x H x D, mm)	8.25" x 3" x 6.5"

Screen specifications

Display Screen Type	Emerald 1	Emerald 2	Emerald 3
Screen Material	PET	PET	PET
Display Color	Light Green	Pure Green	Deep Green
Screen Body Color	Colorless	Very light green	Neutral darker
Adhesive Option	Standard	Standard	Standard
UV Protection (100% UV blocking)	Standard	Standard	Standard
Scratch-Resistant Hard Coating Option	Standard	Standard	Standard
Visible Light Transmittance (VLT)	~85%	~80%	~70%
Typical Excitation wavelength	440-480 nm	440-480 nm	440-480 nm
Reflectance (Anti-Reflective Option Available)	5~10%	5~10%	5~10%
Absorption Efficiency (460 nm)	~40%	~50%	~60%
Relative image contrast under same projection	1	~2	~3
Screen maximum dimension	60" x 100 feet	60" x 100 feet	60" x 100 feet
Screen Thickness (microns)	~50 /	~50	~50



2011 R&D 100 Award Winner



Technology Support by US NSF and SBIR

"Now I have the ability not only to move a sign physically so I can better catch your eye, but catch it every few seconds if I change the message"; " If an ad is bomb@ing at the cash register, we just change it instantly and I don't have to go through a production of paper." --Macy's Senior VP

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