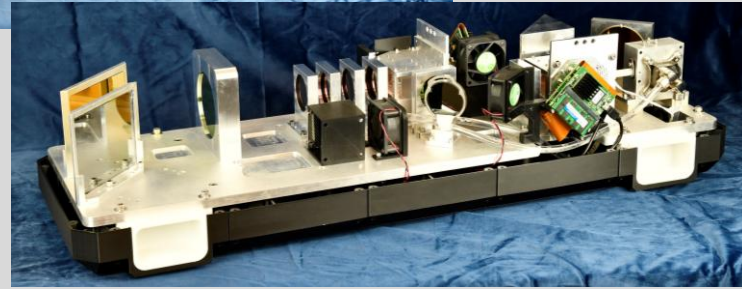


Flickerless, DMD-based Infrared Scene Projector

Product Details

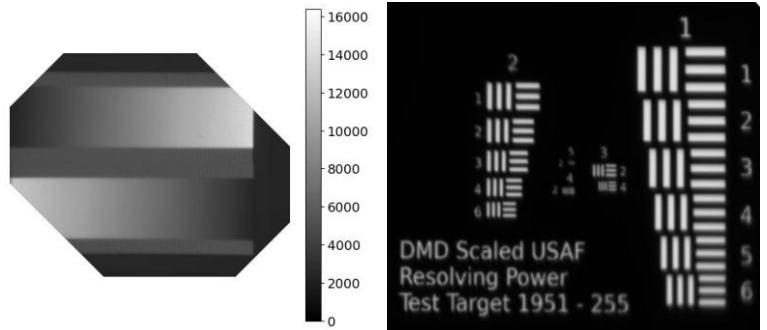
- Frame Rates up to 22.7 kHz
- Apparent temperature up to 1800 K
- 16-bit radiance resolution
- 768×1024 format
- Persistent, instantaneous, flickerless projection
- Does not require NUC
- Real time playback from on-board FPGA
- User interface enables image sequence upload and playback parameter control, including apparent temperature, framerate, option for high contrast mode.



Key Performance Parameters

Parameter	Value
System Overview	
Emission Band	3-5 μm
Format	768×1024
Radiance Resolution	16-bit analog projection
Maximum Contrast	4000:1 (global)
Maximum Frame Rate	22.7 kHz
Array Specifications	
Micromirror Operability	100%
Pixel Pitch	13.7 μm
Maximum Apparent Temperature	1000 K (global); 1800 K (QCL)
Rise Time	4 μs
Electronics Specifications	
DMD Clock Speed	400 MHz
Data Interface	DMD RAM
PC Interface (IO)	USB
NUC Computation	Not required
Synchronization	Not required
Packaging Specifications	
Case Dimensions	15×17×14.5 inches
Case Weight	45 lb

Projected Flickerless Images



Customizable Options

Spectral Bands	Illumination	Format
<input type="checkbox"/> 3-5 μm	<input type="checkbox"/> Global, $T_{\text{apparent}} > 1000\text{K}$	<input type="checkbox"/> 768×1024
<input type="checkbox"/> 8-12 μm	<input type="checkbox"/> QCL, $T_{\text{apparent}} > 1800\text{K}$	<input type="checkbox"/> 2000×2208
<input type="checkbox"/> Ultraviolet (future option)		<input type="checkbox"/> 3500×3500 with steerable ROI
<input type="checkbox"/> Dual-band (future option)		