

LU960ST2 Product brief

Partie Yeh DJ10 BenQ PMSG

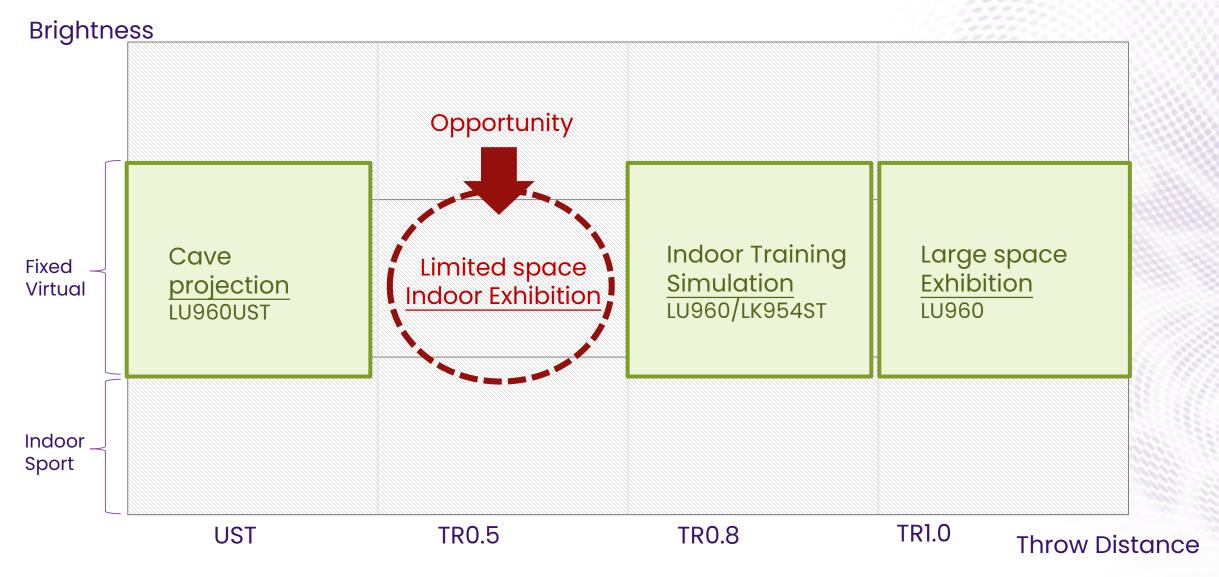
Outline



- STP
- Product Position
- Feature highlight
- Competition map

Segmentation- Target Market





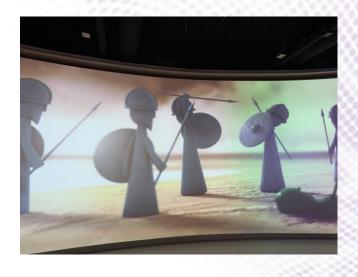
Benefit Sought

What SI need to create a immersive indoor exhibition.





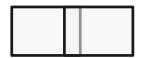






LARGER IMAGE WITHIN A SHORT DISTANCE

High visual brightness 180"-220" @ 2.5m (TR 0.5) HD resolution



BLENDING FACILITATOR

Large scale blending



CROSS UNIT CONTROL AND MAINTENANCE

Multiunit control Long lasting color uniformity

New Product Proposal

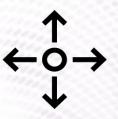




High Light

Superior Optical Design

- 5200ANSI Laser
- WUXGA TR 0.5
- HV Lens shift



Lens lock

 Lens lock ring to secure image reliability



LU960ST2

Design for fixed virtual installation in a constrain space.

Full Digital Connectivity

- HDMI 2.0
- Display port
- HDbaseT



LU960ST2 Feature



Best solution for indoor fixed virtual installation by shorter distance

Flexible Installation Image Performance

Management Friendly Easy Maintain

- TR0.5 Lens Design
- Lens shift vertical ±55% horizontal 23%
- 2D keystone and corner fit
- 360 degree and Portrait support.
- Wired remote RC/ID Remote setting
- Compact size

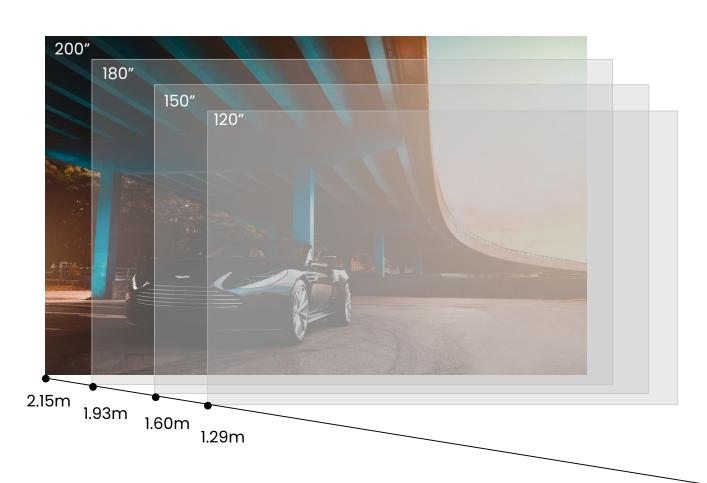
- 5200ANSI Laser lightsource
- Native WUXGA high resolution
- DLP accurate color and longlasting color
- >92% Rec709 coverage
- Fast mode for 16ms lower latency

- HDMI 2.0 and Displayport
- HDMI signal output
- HDbaseT Long distance display
- Lens lock ring to secure image reliability
- In-factory white balance calibration
- Simulator mode

- DMS Centralized LAN Control
- LAN to RS232
- FW upgrade via LAN
- Laser 20000hrs long life

Innovated Lens Design





TR 0.5 Lens

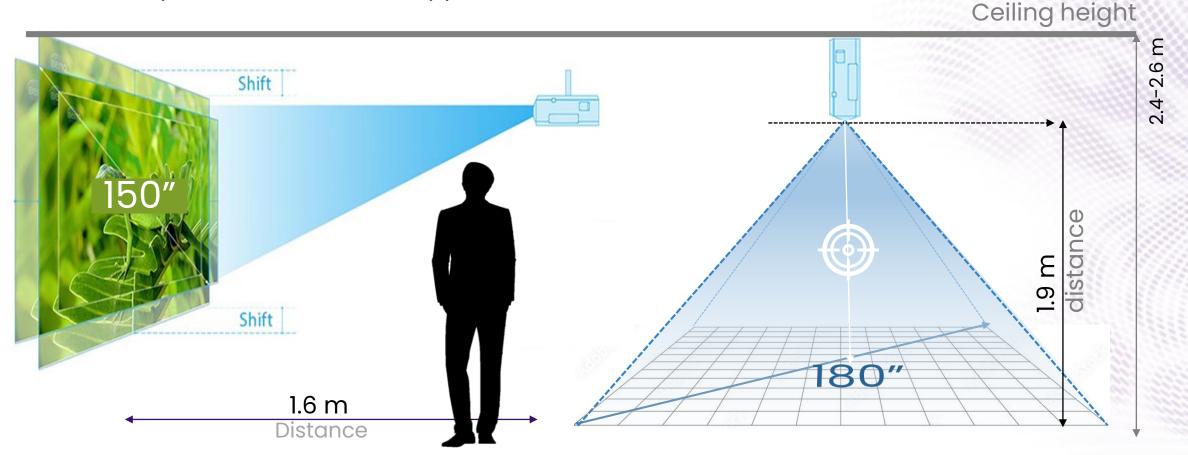
To create up to 200" sharp and clear screen within only 2 meter a way.



Best Lens to Plan in Limited Space



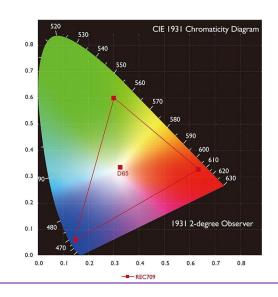
- ❖ More than 150" sized but less shadow, shorter distance.
- ❖ Adjustable HV offset(V±55%, H±23%), suitable for limited ceiling height.
- * Easier to plan for front or floor application.



Why DLP Technology



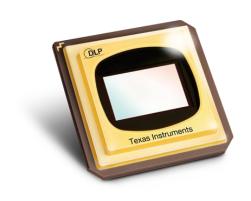
Rec709 Accurate Color



Rec709 compliance means exactly the way they were meant to be seen.

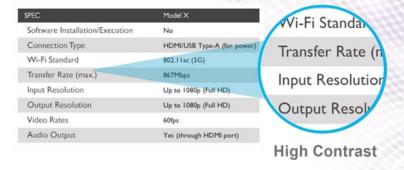
With sRGB mode ensures that images will be portray with biggest accurate color range.

Sturdy DLP Chips



The DLP chip is rated to last over 100,000 hours without degradation.

Due to the incredible high precision of the micro-mirror design, the DLP chip experiences little to no aging or heat damage, ensuring fresh, crisp images for the duration Sharp and readable



BenQ DLP Projectors pump more light into each individual pixel, which means smallsize text and fine details are more defined and clear than the competition

Reference article: What's BenQ DLP Projection Technology?

Superior Contrast in Dark Scene.





The DLP technology performs much better contrast level in dark scene compare to 3LCD or LCOST projector which contain too much brightness on the screen from internal light panel.

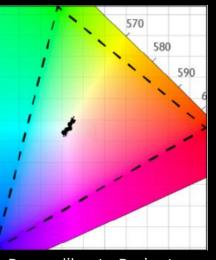
This is important for training simulation application because of the dark scene need to be real to life for pilot who can read accurate image and react correctly.

Out of Box White Balance Calibration

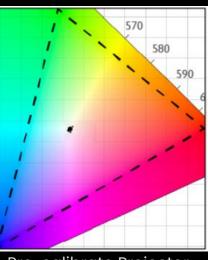




Reference article: How White Balance Calibration Helps Your Flight Simulator Colour gamut diagrams before and after white balance calibration



Pre-calibrate Projector Delta E >3



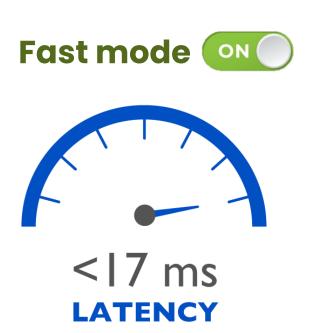
Pre-calibrate Projector Delta E < 2

When discussing colour difference, Delta E is well-known to calculate. A more sensible solution would be to have the projectors pre-calibrated to a consistent colour level prior to shipment.

BenQ's white balance pre-calibration technology which is able to achieve Delta E of about level 2 during factory production, to ensure best open-box experience for multiple blending.

Low Latency for Hyper-Responsive Simulation





Fast mode active

Turn on Fast most to optimize projector signal output latency down to < 17ms to improve total response in the whole integrated simulator system.

*Note:

When fast mode turn on, digital correction function such like keystone, corner fit and other scaling effect will be disable.





Picture mode

- Bright
- Presentation
- sRGB
- Simulator *
- Video

Batch setting with selective function to optimize experience for multiple projector blending application.

Below batch setup will be executed

- Color table same as sRGB
- Dynamic Dimming turn Off
- Direct power on turn On.
- Standby Mode turn to Normal standby.
- Fast mode turn On.
- Disable digital correction include Aspect ratio, keystone, corner fit, digital zoom/shrink and EDID switch to keep native resolution.

Friendly Mechanical Design

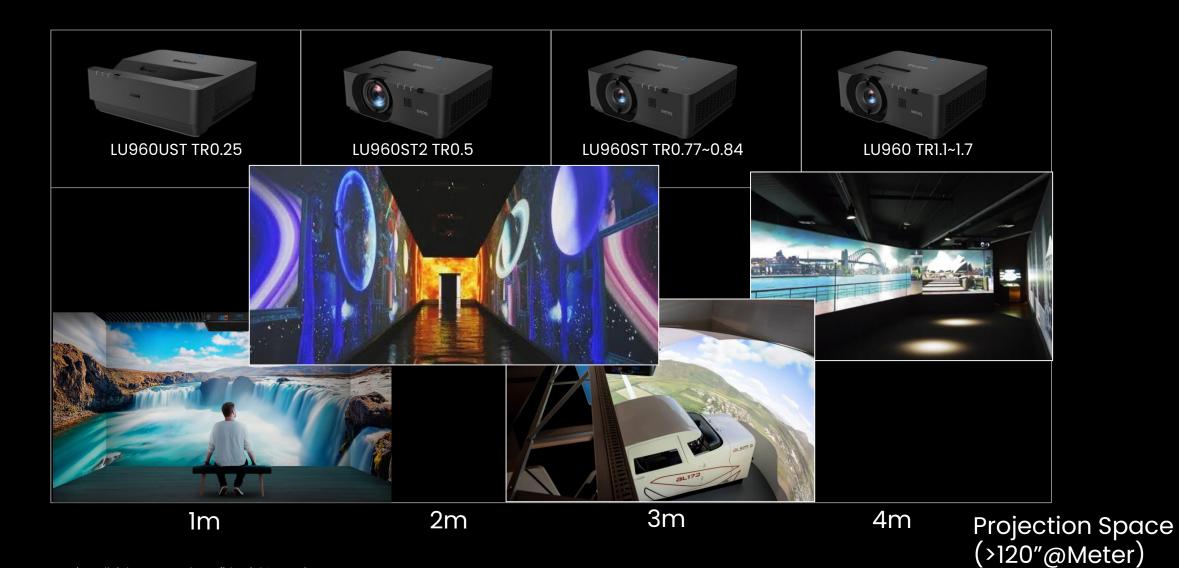






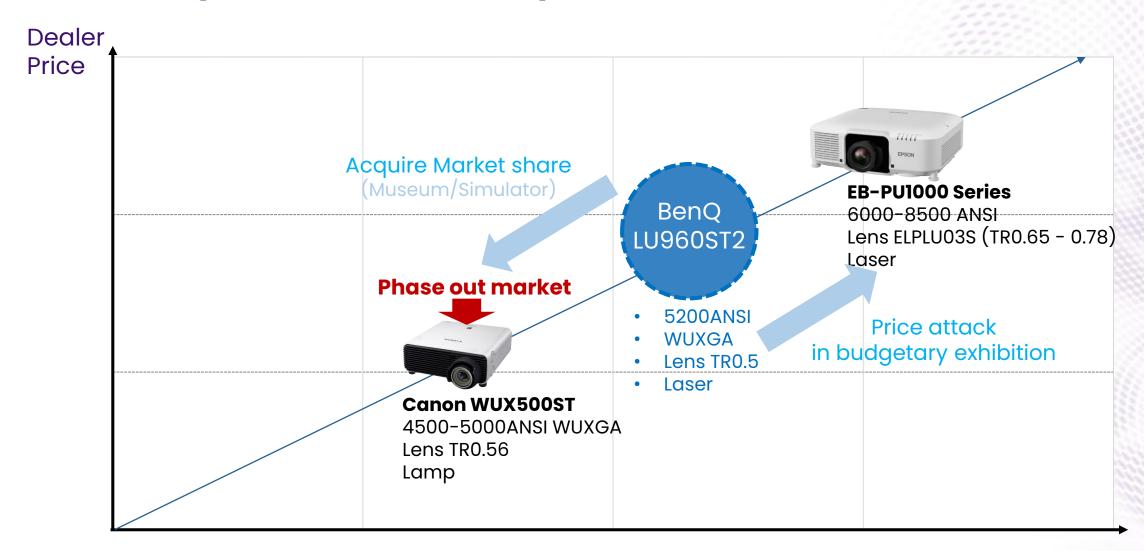
LU960 Line-up for Variety Application





Competition Map(≥5K ANSI Exhibition)





Spec Overview(1/2)





Display	Brightness	5200ANSI Lumens	
	Native Resolution	WUXGA(1920*1200)	
	Lightsource	Laser	
Optical	Throw ratio	TR0.5	
	Zoom Rario	Fixed	
	Projection offset	0%	
	Lens shift range	V ±55%, H ±23%	
	Keystone Adjustment	±30° HV Keystone, Corner fit	
Picture	Rec 709 Coverage	92%	
	Picture mode	Bright/Presentation/sRGB/Simulator/Video	

Spec Overview(2/2)





		HDMI IN 2.0*2, Displayport 1.2*1 HDMI OUT 2.0*1 HDbaseT(CAT5e/CAT6: 100m/Up to 1080p@60Hz; 70m/4K2K@30Hz) VGA IN(15 PIN)
	Input	AUDIO IN(3.5 Jack)
		LAN(RJ45)
		RS232
IO Interface		12V Trigger
		Wired Remote
		3D SYNC IN/Out
	Control	USB MinB
		HDMI OUT 2.0*1
		VGA OUT*1
		AUDIO OUT*1
	Output	USB A 1.5V Power
	Typical Power Comsumption	450W @100Vac
Environment	Dimensions (WxHxD) (mm)	479.6x402x182.8mm
	Net Weight (kg)	12kg



Because it matters