Optoma

NEW

ZK521ST-B

4K Laser Short Throw Golf Sim Projector

Ultra-bright 4K laser projection for indoor golf simulators — built for short-throw placement, low-lag response, and golf-optimized picture performance.



Black chassis designed for golf simulator environments

4K UHD	High Brightness	Short throw	DuraCore Laser	Low input lag
4K UHD	5,100 lumens	0.79 short throw	Up to 30,000-hour laser	1080p/120Hz: 8 ms

See every swing in stunning detail.

5,100 Lumens* High brightness helps maintain vivid, punchy visuals in active golf bays.

4K ULTRA HD

True 4K UHD resolution keeps fairways, ball flight, and data overlays crisp and readable.

.79 Short-throw design reduces shadows and supports flexible placement in simulator rooms.

Golf-optimized image tuning enhances realism, color, and on-screen clarity.

Perfect projection made easy with smart screen alignment. Customized picture mode and remote control for simply setup.

Built for performance. Designed for golf.



4K STUNNING CLARITY

Lifelike fairway contour, texture, and simulator data detail.



LOW INPUT LAG

Fast response for swing and shot feedback.



IMMERSIVE EXPERIENCE

Bright short-throw design for active simulator bays.



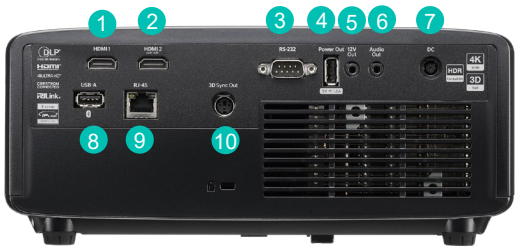
SMART CONTROL

Auto Fit Screen to manage projector settings and alignment with convenient controls.

Compact short throw, powerful impact.

Designed for tight spaces, the **ZK521ST-B** projects a massive image from just 3 ft to 33 ft, giving installers maximum flexibility in any golf simulator setup.

CONNECTIONS



1. HDMI 1
2. HDMI 2
3. RS232
4. Power Out
5. 12V Out
6. Audio Out
7. DC In
8. USB-A
9. RJ-45
10. 3D Sync Out

*Brightness measured in accordance with ISO 21118

Golf Sim | SHORT THROW | 5,100 LUMENS | 4K UHD | LOW INPUT LAG | Optomausa.com

ZK521ST-B

Technical Specifications

Professional performance. Future-ready features. Everything needed for immersive, high-impact golf simulation and training environments.



TECHNICAL SPECIFICATIONS

DISPLAY / IMAGE

Display technology	DLP™
Resolution	4K UHD (3840 × 2160)
Brightness	5,100 lumens
Contrast ratio	300,000:1
Native aspect ratio	16:9
Aspect ratio support	4:3, 16:9, 16:10, Full, Auto, Native
Keystone correction	H: ±15°, V: ±15°
Horizontal scan rate	15–150 KHz
Vertical scan rate	24–240 Hz
Uniformity	75%
Screen size	30”–300”

LIGHT SOURCE

Light source type	Laser
Light source life	30,000 hours (Eco mode)

OPTICAL / INSTALLATION

Throw ratio	0.79:1
Projection distance	2.9’ ~ 9.6’ (Optical Travel)
Zoom	N/A
Zoom type	Fixed
Focal length	0.46”
Lens shift	Vertical 104%–125%
Native offset	104%–125% (+/−5%)

CONNECTIVITY / CONTROL

Inputs	2 × HDMI 2.0, 1 × Audio 3.5 mm
Outputs	2 × USB-A 2.0, 1 × 3D Sync Out, 1 × Audio 3.5 mm
Control	1 × RJ45, 1 × RS232, 1 × 12V trigger
LAN control	Yes

GENERAL / PERFORMANCE

Noise level (min)	29 dB (Eco mode)
Noise level (max)	29 dB (Bright mode)
PC compatibility	VGA, SVGA, XGA, 720p, WXGA, SXGA, SXGA+, UXGA, 1080p, WUXGA
2D compatibility	NTSC, PAL, SECAM, SDTV, HDTV, UHD
3D compatibility	HDMI 1.4 3D formats; up-converts 60Hz→120Hz or 24Hz→144Hz
3D	Full 3D
Security	Kensington Lock, password protected interface
OSD languages	27 languages
Operating conditions	0–40°C; max altitude 10,000 ft; 80% RH non-condensing
24/7 operation	Yes
Speaker	1 × 15W
Input lag	4K/60Hz: 16.7 ms; 1080p/60Hz: 16.7 ms; 1080p/120Hz: 8.4 ms
In the box	AC power cord, remote control, basic user manual
UPC	796435 44 889 9

POWER

Power supply	100–240V, 50–60Hz
Standby	<0.5W
Eco mode	147W @110VAC / 146W @220VAC
Bright mode	196W @110VAC / 193W @220VAC

WEIGHT / SIZE

Dimensions without feet	10.8 × 8.5 × 4.3 IN
Dimensions with feet	10.8 × 8.5 × 4.5 IN
Gross weight	4.3 kg / 9.4 lbs
Net weight	3.0kg / 6.6lbs

KEY INSTALLATION NOTES

- ✓ 0.79 short throw delivers a 100” image from approximately 5.5 ft.
- ✓ 5,000 lumens of bright, consistent performance.
- ✓ Up to 30,000-hour maintenance-free laser operation.
- ✓ Low input lag for responsive gameplay and training.
- ✓ 24/7 operation ready for commercial golf simulator use.

REAR I/O / PRODUCT VIEW



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PRODUCT DIMENSIONS



Golf Sim | **SHORT THROW** | **5,100 LUMENS** | **4K UHD** | **LOW INPUT LAG** | Optomausa.com