

ZK431ST-B

Optoma Golf Sim ZK431ST-B — True 4K UHD Short Throw 4,100 Lumens Laser Projector



Tee Off. Anytime, Anywhere with Optoma's ZK431ST-B combining true 4K clarity, compact design and a short-throw lens to make golf simulator installation easier in space-constrained rooms.

Tighter throw for smaller sim rooms: The 0.496:1 throw ratio is tighter than typical short throw designs, letting you mount the projector closer to the screen

- True 4K resolution: means sharp fairways, readable simulator overlays, and detailed course textures
- Bright enough for lights-on play: At 4,100 lumens* for home golf simulators or commercial entertainment or training spaces. *Brightness measured in accordance with ISO 21118
- Zero-maintenance laser: DuraCore laser technology delivers consistent brightness across 30,000 hours with no lamp replacements
- Four-corner correction and Smart Control App: Easy to dial in a perfect fit on any screen size from 36" to 300"



Specification

Display

Technology	DLP®
Resolution	4K UHD (3840x2160)
Brightness	4,100 Lumens
Contrast ratio	300,000:1
Contrast ratio (Dynamic)	2,000,000:1
Native aspect ratio	16:9
Aspect ratio - compatible	4:3, 16:9, 16:10, Full, Auto, Native
Keystone correction - horizontal	+/-15°
Keystone correction - vertical	+/-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

Throw ratio	0.496
Projection distance	1m~ 10m (mechanism travel) ; 0.778m to 1.127m (Optical travel)
Zoom	n/a
Zoom type	n/a
Focal length	7.51mm
Native offset	114%
Lens shift	n/a

Specification

Connectivity

Connections- Inputs	2 x HDMI 2.0, 1 x VGA In,
Connections - Outputs	2 x USB-A 2.0, 1 x 3D sync out, 1 x Audio 3.5mm
Connections - Control	1 x RJ45, 1 x RS232, 1 x 12V trigger

General

Noise level	29 dB(A)
PC compatibility	VGA, SVGA, XGA, 720p, WXGA, SXGA, SXGA+, UXGA, 1080p, WUXGA
2D compatibility	NTSC, PAL, SECAM, SDTV, HDTV, UHD
3D compatibility	Supports all HDMI 1.4a mandatory 3D formats (Frame pack, side-by-side, top-bottom) and up converts frame rate from 60Hz to 120Hz or 24Hz to 144Hz
Security	Security bar, Kensington Lock, Password protected interface
OSD / display languages	27 languages: Arabic, Czech, Danish, Dutch, English, Farsi, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Simplified Chinese, Spanish, Swedish, Thai, Traditional Chinese, Turkish, Vietnamese
24/7 operation	Yes
360° operation	Yes
Operating conditions	Max Temperature(operating): 0 ~ 40°C; Tolerance +/- 2°C, Max Altitude(operating): 10,000 ft., for 0°C~30°C, Max humidity(operating): 80% RH, non-condensing
Remote control	Business remote control
Speaker count & Watts per speaker	1 x 15W
Input lag	4K/ 60Hz: 16.7 ms 1080P/ 60Hz: 16.7 ms 1080P/ 120Hz: 8.6 ms
In the box	AC power cord Remote control 2 x AAA batteries Quick start user manual

Specification

Networking

LAN control	Yes
24/7 operation	Yes
360° operation	Yes

Power

Power supply	AC 100 ~ 240 V, 50 ~ 60 Hz
Power consumption (standby)	≤0.5 W
Power consumption (eco mode)	125 W@110VAC 124 W@220VAC
Power consumption (bright mode)	178 W @110VAC 176 W @220VAC

Weight and dimensions

Dimensions (W x D x H)	W/o feet: 216 x 274 x 108.5mm (10.8 x 8.5 x 4.3 inches) With feet: 216 x 274 x 114mm (10.8 x 8.5 x 4.5 inches)
Gross weight	4.3 kg / 9.4 lbs
Net weight	2.9 Kg / 6.3 lbs

Applicable software

Optoma Management Suite	Yes
Optoma Smart Control App	Yes