

ZH521ST

Compact 5,500lm Short Throw Full HD Laser Business Projector



The Optoma ZH521ST short throw projector delivers 5,500 lumens of brilliant Full HD 1080p visuals in a compact short-throw design, enabling large, shadow-free projections even in limited spaces. Engineered for 24/7 reliability, it offers a low-maintenance, energy-efficient laser solution with centralized IT management and smart control for corporate, education, or commercial uses.

5,500-lumen brightness – Clear projection for spaces with ambient light

- 30,000h laser life – DuraCore laser ensures long-term reliability and low TCO
- Sustainable design – 50% recycled metal and PCR materials
- Optoma Management Suite (OMS) – Enables centralized IT monitoring and control across multiple networked devices
- Optoma Smart Control App – Intelligent screen alignment and remote control directly from your mobile device (coming soon)



Specification

Display

Technology	DLP®
Resolution	1080p Full HD (1920x1080)
Brightness	5,500 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	15~135 KHz
Vertical scan rate	24~120 Hz
Uniformity	75%
Screen size	19"~303"



Light source

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

Optical

Throw ratio	0.79
Projection distance	1m~ 10m (mechanism travel) ; 0.89m to 2.93m (Optical travel)
Focal length	11.6mm
Native offset	106%~127%
Lens shift	Vertical 106%~127%

Connectivity

Connections- Inputs	HDMI 2.0 x2, VGA In x1, Audio 3.5mm x1
Connections - Outputs	USB-A 2.0 x2, 3D sync out x1, Audio 3.5mm x1
Connections - Control	RJ45 x1, RS232 x1, 12V trigger x1

Specification

General

Noise level (min)	29 dB(A)
Noise level (max)	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 Quick start user manual

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)	150 W@110VAC 147 W@220VAC
Power consumption (bright mode)	210 W @110VAC 205 W @220VAC

Specification

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	4.6 kg / 10.1 lbs
Net weight	3.1Kg / 6.8 lbs