

ZH451ST



Bright, Robust and Reliable Laser Short-throw Projectors

- Bright and robust laser light source projectors with good color representation
- More stable brightness output than lamp projectors but lower power consumption
- Short-throw lens design for easy projection of a 100-inch Full HD screen.
- Environmental friendly with mercury free and compliance with ErP Directive
- Flexible installation with 360° projection and portrait mode support
- Certified for IP6X which offers complete protection from dust
- Reliable thermal design for 24/7 operation
- 4K and HDR compatible
- Vertical & horizontal keystone correction support
- Multiple network control protocols support
- Optoma Management Suite(OMS) centralizes the control of all you device.
- Stay up to date effortlessly with firmware over-the-air(OTA) update.
- Optoma Smart Control App- Smart Setup, Flawless Projection.(Smart Fit, Smart Move, geometric correction, and remote device control)



Display/image	Display technology	DLP™
	Resolution	1920 x 1080 (1080p)
	Brightness	4,200 lumens
	Contrast ratio	300,000:1 (Dynamic Black on)
	Native aspect ratio	16:9
	Aspect ratio - support	4:3, 16:9, Full, Native, Auto
	Horizontal scan rate	15~135 KHz
	Vertical scan rate	24~120 Hz
	Uniformity	80%
	Screen size	70.8"~102.6"
Light Source	Light source type	Laser
	Light source life	30,000 hours (Eco mode)
Optical	Throw ratio	0.496 (tolerance +/-3%)
	Projection distance	1m~ 10m
	Zoom	NA
	Zoom type	Manual
	Focal length (mm)	7.51mm
	F-stop	2.8
	Native offset	116%±5%
Connectivity	Connections	Inputs 2 x HDMI 2.0, 1 x VGA-In, 1 x Audio 3.5 mm Outputs 2 x USB-A(1 for power 5V/1.5A, 2 for BT Dongle, BT Dongle is optional and ready in April) 1 x 3D sync, 1 x Audio 3.5 mm, Control 1 x RJ45(control & FOTA), 1 x RS232, 1 x 12V trigger
General	Noise level (min)	29dB (Eco mode)
	Noise level (max)	31dB (Bright mode)
	3D	Full 3D
	Speaker count	1
	Watts per speaker	15W
	Input lag	≤ 8.4ms (1080p/120Hz) ≤ 16.7ms (4K/60Hz)
Networking	LAN - control	Yes
Power	Power supply	100 ~ 240V, 50 ~ 60Hz
	Power consumption (standby)	≤0.5W
	Power consumption (Eco mode)	Eco Mode: 120W ±15%@110V, 118W ±15%@220V
	Power consumption (Bright mode)	Bright Mode:170W ±15%@110V, 168W ±15%@220V
Weight and dimensions	Dimensions (W x D x H)	W/o feet: 274x216x108.5mm With feet: 274x216x114mm
	Gross weight	4.5±0.2KG
	Net weight	3±0.2KG