

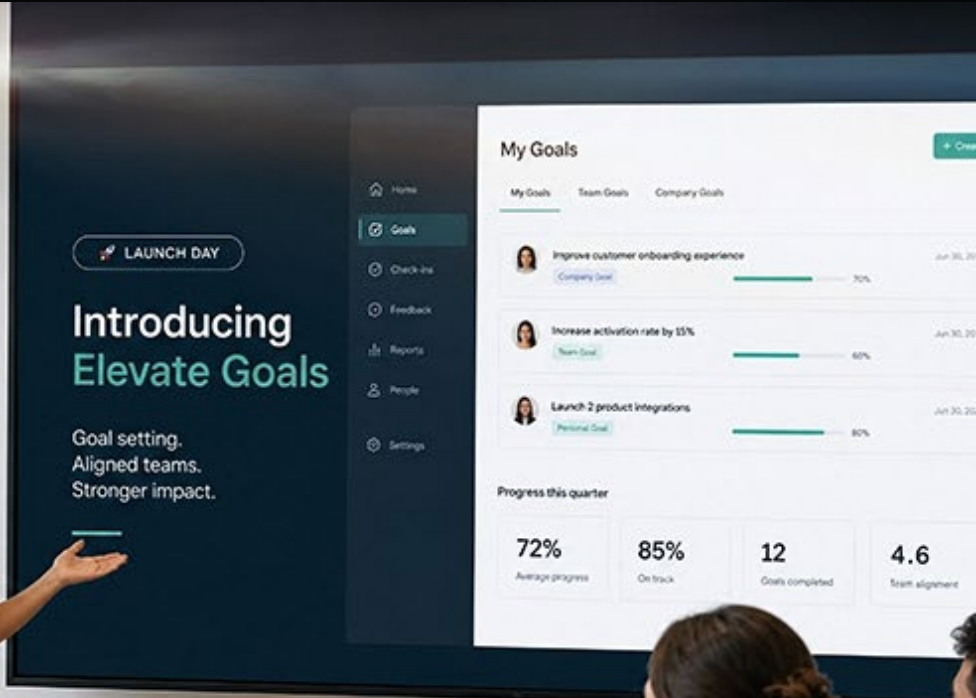


NEW

ZH521

Full HD 1080p Laser Projector

5,500-lumen Full HD 1080p DuraCore laser projection designed for meeting rooms, presentation spaces, training environments, houses of worship, and bright home entertainment.



1080p Full HD
Full HD 1080p Image

5,500 Lumens High Brightness

DuraCore LASER
DuraCore Laser
30,000h Laser Life

Dust-resistant Design for Reliable Operation

Bright, Dependable Projection for Rooms that Stay in Use!

Key Benefits



5,500 Lumens High Brightness*
Delivers clear, vibrant images in classrooms, meeting rooms, training spaces, and environments with ambient light.



Flexible Installation
1.3x zoom, 360° and portrait projection make installation easier in any space and support creative display applications.



Full HD 1080p Resolution
Provides sharp image detail for presentations, video content, signage, and professional display use.

Long-lasting & Reliable



Durable and Reliable
DuraCore laser technology with sealed engine and dust-resistant design for consistent performance in demanding environments.



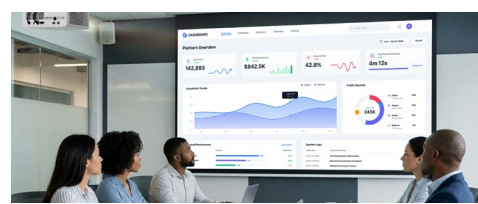
Low Total Cost of Ownership
Up to 30,000 hours of virtually maintenance-free operation reduces downtime and eliminates lamp replacement costs.



Compact and Eco-Conscious
Compact design with lower power consumption helps reduce energy use and total cost of ownership.

Versatile Application

Meeting Rooms



Training Spaces



Home Theater



*Brightness measured in accordance with ISO 21118



ZH521

Technical Specifications

Professional performance. DuraCore laser reliability. Everything needed for vibrant presentations, collaborative learning, worship experiences, and bright-room entertainment.



DISPLAY / IMAGE

Display technology	DLP™
Resolution	1080p Full HD (1920 x 1080)
Brightness	5,500 lumens
Contrast ratio	3,000,000:1
Native aspect ratio	16:9 (Compatible 4:3, 16:9, 16:10)
Displayable Colors	1,073.4 Million
Keystone correction	H: ±30°, V: ±30°
Horizontal scan rate	15–135 KHz
Vertical scan rate	24–120 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	1.13:1 ~ 1.47:1
Projection distance	1m ~ 10m
Zoom	1.3x
Zoom type	Manual
Focal length	16.90 ~ 21.61
Projection	360° & Portrait
Native offset	116%

CONNECTIVITY

Inputs	2 x HDMI 2.0, 1 x VGA, 1 x Audio 3.5 mm, 1 x USB-A Power 1.5A
Outputs	1 x Audio 3.5mm, 1 x VGA
Control	1 x RS232, 1x RJ45, 1 x 12V Trigger, 1 x 3D Sync

GENERAL / PERFORMANCE

Noise level (min)	29 dB (Eco mode)
Noise level (max)	35 dB (Bright mode)
PC compatibility	FHD, UXGA, SXGA, WXGA, HD, XGA, SVGA, VGA, Mac
2D compatibility	NTSC M/J, 3.58MHz, 4.43MHz PAL B/D/G/H/I/M/N, 4.43MHz SECAM B/D/G/K/K1/L, 4.25/4.4MHz 480i/p, 576i/p, 720p(50/60Hz), 1080i(50/60Hz), 1080p(50/60Hz)
3D compatibility	DLP 3D; PC frame sequential 120Hz 3D, Blu-r
3D	Full 3D
Security	Kensington Lock, password protected interface
OSD languages	27 languages
Operating conditions	0–40°C; max altitude 2,500m; Max humidity 80%
24/7 operation	Yes
Speaker	1 x 15W
In the box	AC power cord, remote control, basic user manual, 2 x AAA Batteries
Warranty	5 Years or 12,000H (whichever comes first)
UPC	796435 44 845 5

POWER

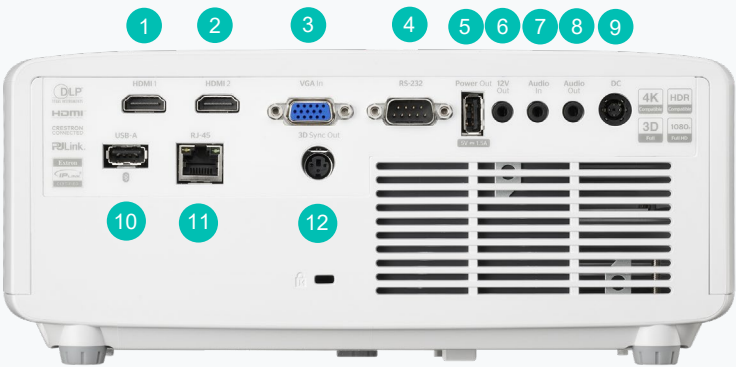
Power supply	External, 100V ~ 240V, 50-60Hz
Standby	<0.5W
Power Consumption	147W (Min) & 210W (Max)

WEIGHT / SIZE

Dimensions	10.8" x 8.5" x 4.5"
Gross weight	9.7 lbs
Net weight	6.4 lbs




REAR I/O / PRODUCT VIEW | CONNECTIVITY



- HDMI 1
- HDMI 2
- VGA In
- RS232
- USB-A 1.5A
- 12V Out
- Audio In
- Audio Out
- DC In
- USB-A
- RJ-45
- 3D Sync Out

PRODUCT DIMENSIONS



4.5" height, 10.8" width, 8.5" depth



Optoma
 NO. 1 DLP™ LASER BRAND IN AMERICAS*
*Data source: PMA Research Worldwide Projector Census, Q3 2025



Optoma is a visual solutions provider that has delivered stunning experiences to millions of people since 2000. For the last two decades, we have grown our business to become one of the world's leading large-display brands. We have demonstrated our capabilities as a first-mover, innovator, and market leader and firmly established our position as the world's leading 4K UHD projector and DLP® brand.