



NEW

# ZK451

## 4K UHD Laser Projector

True 4K clarity, high brightness and flexible installation for education, enterprise and professional environments.



**4K ULTRA HD**  
4K UHD

**4,500 Lumens High Brightness**

**DuraCore LASER**  
DuraCore Laser  
30,000h Laser Life

**1.6x**  
1.6x Zoom  
Flexible Installation

**OMS**  
OMS Ready  
Easy Management

## Bright, Dependable Projection for Rooms that Stay in Use!

### Key Benefits



**Bright Enough for Shared Spaces\***  
4,500 lumens supports clear images in classrooms, lecture rooms and meeting spaces with ambient light.



**Flexible Installation**  
1.6x zoom, keystone correction, 360° operation and portrait mode simplify setup.



**True 4K Detail for Content**  
Sharp text and crisp visuals improve readability for presentations, spreadsheets and video.

### Long-lasting & Reliable



**Long-life Laser Reliability**  
Up to 30,000 hours of maintenance-free DuraCore laser operation.



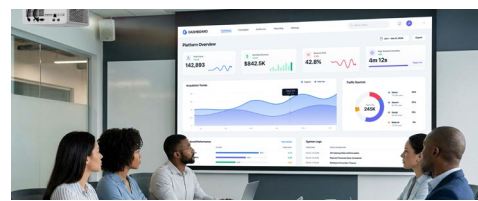
**Easy Control & Management**  
OMS compatibility, RS232, RJ45 and SmartApp support help simplify control.



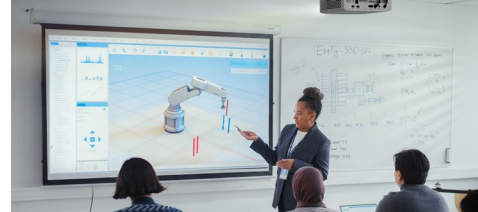
**IP6X Optical Engine**  
Filter-free sealed design helps improve durability and long-term reliability.

### Versatile Application

Meeting Rooms



Training Spaces



Classrooms



\*Brightness measured in accordance with ISO 21118



# ZK451

## Technical Specifications

True 4K UHD laser performance for education, corporate, and professional environments.



### DISPLAY / IMAGE

Display technology	DLP™
Resolution	4K UHD (3840 x 2160)
Brightness	4,500 lumens*
Contrast ratio	300,000:1
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	1.4:1 ~ 2.24:1
Projection distance	0.8' – 32.8'
Zoom	1.6x
Zoom type	Manual
Focal length	0.3" ~ 1.28"
Projection	360° & Portrait
Native offset	116% ±5°

### CONNECTIVITY

Inputs	2 x HDMI w.0 (4K HDR)
Outputs	2 x USB-A (Power/Dongle), 1 x Audio-Out 3.5mm
Control	1 x RS232, RJ45, 3D Sync, 12V Trigger
USB Power	5V / 1.5A (USB-A)

### GENERAL / PERFORMANCE

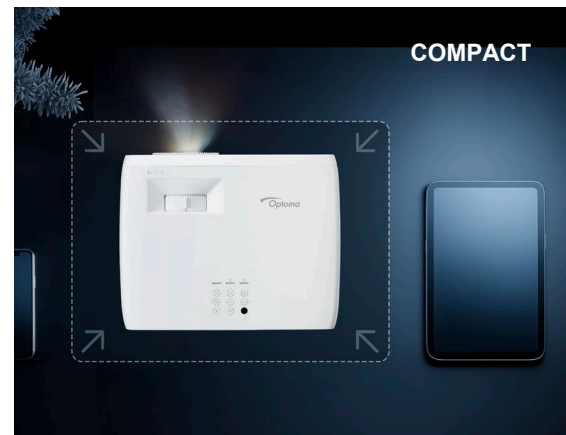
Noise level (min)	29 dB (Eco mode)
Noise level (max)	35 dB (Bright mode)
PC compatibility	NTSC, PAL, SECAM, SDTV, HDTV, UHD
2D compatibility	NTSC, PAL, SECAM, SDTV, HDTV, UHD, 460vp, S76vp, 720p (50/60Hz), 1080p (50/60Hz)
3D compatibility	DLP 3D, PC frame sequential 120Hz 3D, Blue-ray 3D (Frame pack, side-by-side, top-bottom); up-converts from 60Hz to 120Hz or 24 Hz to 144 Hz
Security	Kensington Lock, password protected
OSD languages	25 languages
Operating conditions	0–40°C ±2°C; max altitude 10,000ft; Max humidity 80%
Speaker	1 x 15W
In the box	AC power cord, full size remote, quick start guide, 2 x AAA Batteries
Warranty	3 Year limited parts and labor warranty on projector, 5-year or 12,000 hour light source warranty (whichever comes first)
UPC	796435 44 855 4

### POWER

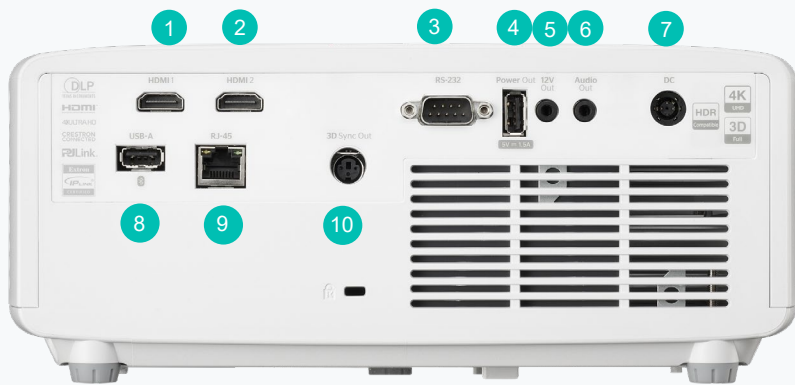
Power supply	External, 100V ~ 240V, 50-60Hz
Standby	<0.5W
Power Consumption	124W (Min) & 178W (Max)

### WEIGHT / SIZE

Dimensions	10.8" x 8.5" x 4.5"
Gross weight	9.5 lbs
Net weight	6.4 lbs



### REAR I/O / PRODUCT VIEW | CONNECTIVITY



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

### PRODUCT DIMENSIONS



**Optoma**  
 NO. 1 DLP™ LASER BRAND IN AMERICAS\*  
\*Data source: PMA Research Worldwide Projector Census, Q32025



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.