Optoma

ZH420
Eco-friendly ultra-compact high brightness Full HD laser projector

Full HD 1080p | **LASER** | **Eco⁺**

- **Bright Full HD 1080p DuraCore laser projector - 4300 lumens, 4K/HDR compatible & IP6X certified**

- **Small form factor for easy installation - 1.3x zoom, 360-degree and portrait projection**

- **Reduced power consumption for a long life span - DuraCore laser technology delivers 30,000 hours maintenance free laser light source**

- **External power supply - More reliability, portability and energy efficiency**

The ZH420 is one of Optoma's most compact and hassle-free Full HD 1080p DuraCore laser projectors to date. Designed for maintenance-free continuous operation, it delivers powerful image performance with flexible installation features and extensive connectivity options in a sleek, compact form factor, up to 34% smaller than previous Optoma models.[1]

An added benefit, the ZH420 features an external power supply offering more reliability, portability and energy efficiency.

Specifications

Display/image

Display technology	DLP™
Resolution	1080p Full HD (1920x1080)
Brightness	4,300 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
Keystone correction - horizontal	+/-30°
Keystone correction - vertical	+/-30°
Displayable colours (millions)	1073.4
Horizontal scan rate	15 ~ 140Khz
Vertical scan rate	24 ~ 120Hz
Uniformity	75%
Screen size	0.79m ~ 8.18m (31" ~ 322") diagonal

Lamp info

Light source type	Laser
LASER life	30,000 hours

Optical

Throw ratio	1.16:1 ~ 1.49:1
Projection distance (m)	1m - 8m
Zoom	1.3
Zoom type	Manual
Focal length (mm)	16.9 ~ 21.61
Native offset	116%

Connectivity

Connections	**Inputs** 2 x HDMI 2.0
	Outputs 1 x Audio 3.5mm, 1 x USB-A power 1.5A
	Control 1 x RS232, 1 x RJ45

General

Noise level (min)	29dB
Noise level (max)	35dB
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	Yes (DLP 3D; PC frame sequential 120Hz 3D, Blu-ray DVD 3D)
3D	Full 3D
Security	Security bar, Kensington Lock, Password protected interface
IP rating	IP6X
OSD / display languages	25 languages: Arabic, Czech, Danish, Dutch, English, Farsi, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Norwegian, Polish, Portuguese, Romanian, Russian, Chinese (simplified), Spanish, Swedish, Chinese (traditional), Turkish, Vietnamese
24/7 operation	Yes
360° operation	Yes
Operating conditions	0°C ~ 40°C, Max. Humidity 80%, Max. Altitude 2500m
Remote control	Card style
Speaker count	1
Watts per speaker	15W
In the box	AC power cord Remote control 1x CR2025 battery Basic user manual
Optional wireless models	UHDCast Pro

Power

Power supply	External power supply, 100V ~ 240V, 50-60Hz
Power consumption (standby)	<0.5W
Power consumption (min)	119W
Power consumption (max)	173W

Weight and dimensions

Dimensions (W x D x H) mm	274 x 216 x 114
Gross weight	4.2 kg
Net weight	3 kg