

Photon Beam PK52

Home Entertainment 4K UHD Projector



Enjoy bright 4K UHD visuals in everyday spaces. With 3,500 lumens, HDR support, PureEngine technology, and a long-lasting laser, the PK52 delivers vibrant color and smooth performance in a compact, easy-to-set-up design.

Watch in 4K. See your favorite movies and shows pop with sharper detail and clearer images — everyday viewing just feels more alive.

- Optoma PureEngine enhances every scene with PureDetail for sharper textures, PureContrast for deeper blacks and brighter highlights, PureMotion for smooth action, and vivid colors throughout.
- Experience movies as the director intended — one click restores the original frame rate, color, and aspect ratio for true cinematic viewing.



Specification

Display/Image

Technology	DLP™
Resolution	4K UHD (3840x2160)
Brightness	3,500 lumens
Contrast ratio	1,000,000:1
Native aspect ratio	16:9
Aspect ratio - compatible	4:3, 16:9, 16:10
Keystone correction - horizontal	+/-30°
Keystone correction - vertical	+/-30°
Horizontal scan rate	15~255 KHz
Vertical scan rate	25~120Hz
Uniformity	80%
Screen size	28" ~ 300" (mechanism travel, optimized@82") diagonal
Color Gamut	Rec.709



Light source

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

Optical

Throw ratio	1.21 ~ 1.59
Projection distance	1000 mm ~ 8000 mm (28" ~ 300")
Zoom	1.3x
Zoom type	Manual
Focal length	12.81 mm ~ 16.74 mm
Native offset	105%±3%

Connectivity

Inputs	HDMI 2.0 x2 (one supports ARC out)
Outputs	USB-A power 1.5A x1, Audio out 3.5mm x1
Control	RS232 x1, 12V trigger x1

Specification

General

Noise level (eco mode)	28 dB
Noise level (bright mode)	33 dB
PC Compatibility	UHD, FHD, UXGA, SXGA, WXGA, HD, XGA, SVGA, VGA, Mac
2D Compatibility	480i/p, 576i/p, 720p (50/60Hz), 1080i (50/60Hz), 1080p (24/30/50/60/120Hz), 2160p (24/30/50/60Hz)
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	Backlit remote control
Speaker count & Watts per speaker	1 x 15W
In the box	AC power cord Remote control Quick start user manual

Power

Power supply	AC 100 ~ 240 V, 50 ~ 60 Hz
Power consumption (standby)	0.5 W
Power consumption (eco mode)	85 W (typical), 98 W (max) @110V AC 83 W (typical), 96 W (max) @220V AC
Power consumption (bright mode)	150 W (typical), 173 W (max) @110V AC 148 W (typical), 170 W (max) @220V AC

Weight and dimensions

Dimensions (W x D x H)	W/o feet: 274 mm x 215.5 mm x 101 mm / 10.8" x 8.5" x 4.0" With feet: 274 mm x 215.5 mm x 114 mm / 10.8" x 8.5" x 4.5"
Gross weight	4.5 Kg ± 0.2 kg / 9.92 lbs ± 0.44 lbs
Net weight	3.4 Kg ± 0.2 kg / 7.50 lbs ± 0.44 lbs

Specification