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.



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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	2 x HDMI 2.0 (one supports ARC out)
Outputs	1x USB-A power 1.5A, 1 x Audio out 3.5mm
Control	1 x RS232, 1 x 12V trigger

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

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Networking

LAN control	N/A

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

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