

Projector Guide - Overview

Projector tech can be intimidating but we've narrowed it down to the 5 most important features that you should look for along with 5 recommended projectors based on budget and use case

- **Distance from window:** Regular projectors, also known as long throw, require 8-12 feet of space between the projector and your window for a 100 inch image (or closer for a smaller image). On the other hand, short throw options only need 2-4 feet of space to produce the same size image. The farther away a projector is placed from the window, the larger your projection with a slight decrease in brightness.
- **Lumens** are loosely defined as the measure of a projector's brightness. All our recommended projectors are at least 3500 lumens which we've found is enough for windows up to around 20 square feet in most lighting conditions. Increase lumens for larger display sizes.
- **USB Reader:** This options allows you to play pre-saved content directly from a small usb stick plugged into the back of the projector. It's like wireless control except you have to preload your content. We recommend this option for ultimate ease of use!
- **Wireless Compatible:** All projectors except the most affordable economy model have a USB port that can power a wireless HDMI extender or media play (sold separately). This allows you to control content directly from a smartphone or computer.
- **Resolution:** We list the resolution on each projector in case you're curious but all 5 projector options are good enough to show sharp content that will be more than sufficient for nearly all applications

Projector Recommendations

Diagonal screen size up to 120"

When you have room to place projector 10ft - 16ft from window

*Shorter distances from window = smaller projection size and slightly brighter content

Economy

Our choice for video demos and brochure pictures

**ViewSonic
PA503S**

- 3600 lumens
- 800 x 600 resolution
- \$299

Plus

PC free content input and better resolution

**BenQ
MX731**

- 4000 lumens
- 1024 x 768 resolution
- USB reader
- \$649

Supreme

Large windows

**Optoma
EH412**

- 4500 lumens
- 1920 x 1080 resolution
- \$849

Diagonal screen size up to 120"

When you have limited distance less than 4ft from window

Short Throw

Short distance from window

**ViewSonic
PS501X**

- 3500 lumens
- 1024 x 768 resolution
- 4.8ft distance for 120" size
- \$469

Ultra Short Throw

**Optoma
W340UST**

- 4000 lumens
- 1280 x 800 resolution
- 2.2ft distance for 120" size
- \$1499

Wireless Capability: Pair your projector with a HDMI transmitter or media player to stream content from a phone or computer. Lux Labs does not endorse any specific options. Prices vary from \$30-\$250 and performance is generally correlated with price. Product descriptions and reviews are widely available online.

Brightness 3,600 ANSI Lumens

Resolution 800x600

Aspect Ratio 4:3 (SVGA)

Contrast 22,000:1

Display Type DLP x 1

Color Processing 10-bit

Video Modes 720p, 1080i, 1080p/60, 1080p/50, 576i, 576p, 480p, 480i

Data Modes MAX 1920x1200



Lamp Type 190W Metal Halide bulb

Lamp Life 4,500 hours / 15,000 hours (Eco)

Lamp Model RLC-108

Included Lens 1.1x manual zoom , manual focus

Throw Distance 4.3' - 39.2'

Image Size 30.00" - 300.00"

Throw Ratio 1.96:1 - 2.15:1 (D:W)

Projector Placement For a 100" diagonal screen, place the projector lens between 13'-1" and 14'-4" from the screen.

Digital Zoom Yes

Digital Keystone Vertical only

Projector Size 4.33" x 11.57" x 8.58" (HxWxD)

Weight 4.9 lbs

Input

Computer in (D-SUB 15 pin): 2

Composite: 1

Audio-in (3.5mm): 1

HDMI: 1 (Back)

Full specs and user guide

<https://www.viewsonic.com/eu/products/projectors/PA503S.php>

ALTERNATIVE CHOICE WITH PC-FREE PRESENTATION CAPABILITY (INPUT)

ViewSonic PG603W

<https://www.viewsonic.com/eu/products/projectors/PG603W.php>

More Information Contact our Product Manager, Clinton Hayes at clinton@luxlabsdisplays.com.

Brightness 4,000 ANSI Lumens
Resolution 1024x768
Aspect Ratio 4:3 (XGA)
Contrast 20,000:1
Display Type 0.55" DLP x 1
Color Processing 10-bit
Video Modes 720p, 1080i, 1080p/60, 576i, 576p, 480p, 480i
Data Modes MAX 1920x1200



Lamp Type 240W Metal Halide bulb
Lamp Life 4,000 hours / 15,000 hours (Eco)
Lamp Model 5J.JGS05.001

Included Lens 1.3x manual zoom , manual focus
Throw Distance 3.9' - 30.2'
Image Size 29.70" - 300.00"
Throw Ratio 1.51:1 - 1.97:1 (D:W)
Projector Placement For a 100" diagonal screen, place the projector lens between 10'-1" and 13'-2" from the screen.
Digital Keystone Horizontal & Vertical

Projector Size 4.72" x 11.65" x 8.70" (HxWxD)
Weight 5.5 lbs

Input

USB Reader for PC-Less Presentations & Networked Presentation
Network Presentation through QCast App

VGA In: Dsub-15pin
Audio In: Mini Jack
HDMI: 1 (Back)

Full specs and user guide

<https://www.benq.com/en-in/projector/meeting-room/mx731.html>

ALTERNATIVE CHOICE WITH PC-FREE PRESENTATION CAPABILITY (INPUT)
ViewSonic PG603W

<https://www.viewsonic.com/eu/products/projectors/PG603W.php>

More Information Contact our Product Manager, Clinton Hayes at clinton@luxlabsdisplays.com.



Brightness 4,500 ANSI Lumens

Resolution 1920x1080

Aspect Ratio 16:9 (HD)

Contrast 50,000:1

Display Type 0.65" DLP x 1

Color Processing 10-bit

Video Modes 720p, 1080i, 1080p/60, 576i, 576p, 480p, 480i

Data Modes MAX 3840x2160

Lamp Type 245W Metal Halide bulb

Lamp Life 4,000 hours / 15,000 hours (Eco)

Lamp Model BL-FU245A

Included Lens 1.3x manual zoom , manual focus

Throw Distance 3.3' - 24.5'

Image Size 30.91" - 301.18"

Throw Ratio 1.12:1 - 1.47:1 (D:W)

Projector Placement For a 100" diagonal screen, place the projector lens between 8'-2" and 10'-8" from the screen.

Digital Keystone Vertical only

Projector Size 4.50" x 12.40" x 9.50" (HxWxD)

Weight 7.7 lbs

Input

VGA In: Dsub-15pin

Audio In: Mini Jack

HDMI 1.4a

HDMI 2.0

Full specs and user guide <https://www.optoma.com/us/product/eh412/>

ALTERNATIVE CHOICE WITH PC-FREE PRESENTATION CAPABILITY (INPUT)

Optoma W460 <https://www.optoma.com/us/product/w460/>

More Information Contact our Product Manager, Clinton Hayes at clinton@luxlabsdisplays.com.

Brightness 3,500 ANSI Lumens

Resolution 1024x768

Aspect Ratio 4:3 (XGA)

Contrast 22,000:1

Display Type 0.55" DLP x 1

Color Processing 10-bit

Video Modes 720p, 1080i, 1080p/60, 576i, 576p, 480p, 480i

Data Modes MAX 1920x1080



Lamp Type 190W Metal Halide bulb

Lamp Life 5,000 hours / 15,000 hours (Eco)

Lamp Model RLC-108

Included Lens Fixed focal length, manual focus

Throw Distance 1.2' - 12.2'

Image Size 30.00" - 300.00"

Throw Ratio 0.61:1 (D:W)

Projector Placement For a 100" diagonal screen, place the projector lens between 4'-1" from the screen.

Digital Keystone Vertical only

Projector Size 4.53" x 11.50" x 9.29" (HxWxD)

Weight 5.7 lbs

Input

VGA In: Dsub-15pin x 2

Audio In: Mini Jack

HDMI 1.4

Composite: RCA

Full specs and user guide <https://www.viewsonic.com/us/ps501x.html>

ALTERNATIVE CHOICE WITH PC-FREE PRESENTATION CAPABILITY (INPUT)

Epson VS355

<https://epson.com/For-Work/Projectors/Portable/VS355-WXGA-3LCD-Projector/p/V11H840220>

More Information Contact our Product Manager, Clinton Hayes at clinton@luxlabsdisplays.com.



Brightness 4,000 ANSI Lumens

Resolution 1080x800

Aspect Ratio 16:10 (WXGA)

Contrast 22,000:1

Display Type 0.65" DLP x 1

Color Processing 10-bit

Video Modes 720p, 1080i, 1080p/60, 576i, 576p, 480p, 480i

Data Modes MAX 1920x1200

Lamp Type 240W Metal Halide bulb

Lamp Life 4,000 hours / 15,000 hours (Eco)

Lamp Model BL-FU220E

Included Lens Fixed focal length, manual focus

Throw Distance 1.6' - 2.2'

Image Size 84.91" - 115.30"

Throw Ratio 0.27:1 (D:W)

Projector Placement For a 100" diagonal screen, place the projector lens between 1'-11" from the screen.

Digital Keystone Horizontal & Vertical

Projector Size 4.75" x 13.50" x 14.25" (HxWxD)

Weight 8.7 lbs

Input

PC-free USB image viewer and office document reader

Wireless presentations and images with HDCast Pro (USB Wi-Fi adapter included)

USB display screen mirroring with iOS and Android devices

LAN display via Ethernet with Windows and Mac OS X

VGA In: Dsub-15pin

Audio In: Mini Jack

Composite: RCA

HDMI: 1 (Back)

HDMI (MHL)

Full specs and user guide <https://www.optoma.com/us/product/w340ust/>

More Information Contact our Product Manager, Clinton Hayes at clinton@luxlabsdisplays.com.