

Christie lens calculator

With this calculator you can **determine the lens required** for the successful installation of your Christie projector. You can also use it to **determine what screen size or throw distance** you will need with your new or current Christie projector and lens combination.

Reset

Help

Boxer 4K30

Change

Screen dimensions

Enter the dimensions of your screen or desired image. If you are unsure of your screen size, enter your throw distance, select a lens and use the 'calculate screen dimensions' feature below.

Width

0 mm 15000 mm mm

Height

0 mm 15000 mm mm

Diagonal

0 mm 17000 mm mm

Calculate throw distance ⓘ

Units

mm
 cm
 m

in
 ft

Screen view

Content image width: 4000 mm
 Content image height: 2118 mm
 Content image diagonal: 4526 mm
 Aspect ratio: 17:9

Reset

Help

Results

Get a quote

Calculate

Lens

Christie D4K40-RGB

Change

Screen dimensions

Enter the dimensions of your screen or desired image. If you are unsure of your screen size, enter your throw distance, select a lens and use the 'calculate screen dimensions' feature below.

Width

0 mm 15000 mm mm

Height

0 mm 15000 mm mm

Diagonal

0 mm 17000 mm mm

Calculate throw distance ⓘ

Units

Whether you are using a **desktop**, or **mobile device**, there are five sections in the tool:

1. Projector selection
2. Screen dimensions
3. Throw distance
4. Offset simulation
5. Available lens options

1. To get started, choose your projector.
2. The calculator defaults to show current models. Toggle “Show discontinued products” to see discontinued projectors.
3. Does your project involve a few different projectors? Click on the star to mark projectors as favorites, and toggle “Only show starred” to quickly recall the projectors.

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Search current projectors Help

Search by part no or model name

Boxer

30,000-39,999 Lumens

Resolution

Illumination

Show discontinued products

Only show starred

1

2

3

Boxer 2K30 ★

Lumens 30,000
Resolution 2048x1080 (2K)
Illumination Lamp

Specification Select

Boxer 4K30 ★

Lumens 30,000
Resolution 4096x2160 (4K)
Illumination Lamp

Specification Select

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Projector lens calculator

Welcome to Christie's tool for selecting projector lenses, based on your unique installation requirements. With this tool you can select a projector and lens, then calculate your throw distance or calculate your projected image/screen dimensions for a single projector or multi-projector blended display (up to 3 projectors).

To get started, use the search and filter options on the left to search for a specific projector model, or to access a list of projectors that meet your criteria based on product series, brightness, resolution and/or illumination type. Review the returned list and click "Select" to choose a projector for your calculations.

Note: All values are for reference only. Specifications are subject to change without notice. Please contact to a Christie representative to confirm critical installation values. [Get in touch](#)

If you are unsure of your screen size, enter your throw distance, select a lens and use the 'calculate screen dimensions' feature

Change selected projector

Enter the dimensions of your screen or desired image

CHRISTIE

Reset Help

Boxer 4K30 Change

Screen dimensions
Enter the dimensions of your screen or desired image. If you are unsure of your screen size, enter your throw distance, select a lens and use the 'calculate screen dimensions' feature below.

Width: 0 mm to 15000 mm, 4000 mm
Height: 0 mm to 15000 mm, 2118 mm
Diagonal: 0 mm to 17000 mm, 4526 mm

Calculate throw distance

Units: mm (selected), cm, m, in, ft

Screen view
Content image width: 4000 mm
Content image height: 2118 mm
Content image diagonal: 4526 mm
Aspect ratio: 17:9

Throw distance
Calculated throw distances are subject to a +/- 5% lens tolerance.
3223 mm 31375 mm 3985 mm
Calculate screen dimensions

Offset simulation
The offset measures the position of the projector relative to the centerline of the screen (0% offset means the center of the lens is even with the center of the screen). Calculated offsets are subject to +/- 7% tolerance.

Vertical offset: 0% or 0 mm from screen center

Side view
Content height: 2118 mm
Throw: 3985 mm
Horizontal offset

Available lens options
Select a lens from the list below. Focal length values are subject to a 5% +/- lens tolerance.

- 0.9:1 Fixed** (In range)
Part #144-111014-XX
Vertical offset: +45% / -45%
Horizontal offset: +15% / -15%
Image width: 4000mm
Image height: 2118mm
Image diagonal: 4526mm
3985mm Lens range 3985mm
Specification Selected
- 0.72:1 Fixed** (Out of range)
Part #144-110103-XX
Vertical offset: +0% / -0%
Horizontal offset: +0% / -0%
Image width: 5023mm
Image height: 2659mm
Image diagonal: 5683mm
3223mm Lens range 3223mm
Specification Select
- 1.13-1.31:1 Zoom** (Out of range)
Part #144-103105-XX
Vertical offset: +60% / -60%
Horizontal offset: +25% / -25%
Image width range: 2869mm-3348mm
Image height range: 1510mm-1770mm
Image diagonal range: 1910mm-2230mm
Specification Select

Summary of results Get a quote

Selected lens card moves to the top of the list

Offset simulation measures the position of the projector relative to the centerline of the screen

After selecting a lens and setting or calculating the throw distance, you will see the offset simulations. You can adjust the Vertical offset and Horizontal offset manually by moving the slider bar for either offset. The offset range is limited by the lens selected.

Throw distance ⓘ

Calculated throw distances are subject to a +/- 5% lens tolerance.



Calculate screen dimensions

Offset simulation

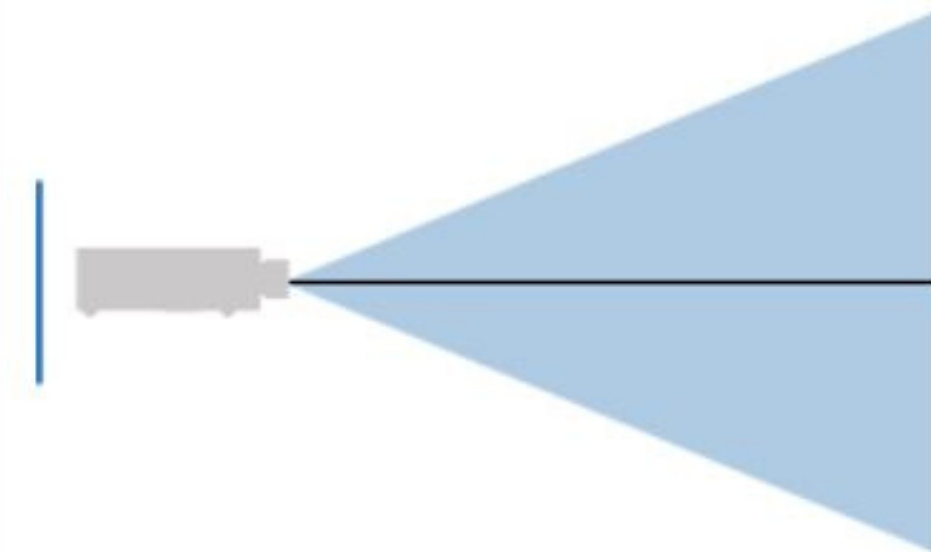
The offset measures the position of the projector relative to the centerline of the screen (0% offset means the center of the lens is even with the center of the screen). Calculated offsets are subject to +/- 7% tolerance.

Vertical offset



Side view

Content height: 2118 mm



Throw: 3985 mm

Horizontal offset



Top view

Content width: 4000 mm

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Reset Help

Boxer 4K30 Change

Screen dimensions
Enter the dimensions of your screen or desired image. If you are unsure of your screen size, enter your throw distance, select a lens and use the 'calculate screen dimensions' feature below.

Width: 0 mm to 15000 mm (4000 mm)

Height: 0 mm to 15000 mm (2118 mm)

Diagonal: 0 mm to 17000 mm (4526 mm)

Calculate throw distance

Units: mm (selected), cm, m, in, ft

Screen view
Content image width: 4000 mm
Content image height: 2118 mm
Content image diagonal: 4526 mm
Aspect ratio: 17:9

Throw distance
Calculated throw distances are subject to a +/- 5% lens tolerance.
3223 mm to 3985 mm (31375 mm)

Calculate screen dimensions

Offset simulation
The offset measures the position of the projector relative to the centerline of the screen (0% offset means the center of the lens is even with the center of the screen). Calculated offsets are subject to +/- 7% tolerance.

Vertical offset: 0% or 0 mm from screen center

Side view
Content height: 2118 mm

Available lens options
Select a lens from the list below. Focal length values are subject to a 5% +/- lens tolerance.

0.9:1 Fixed In range
Part #144-111014-XX
Vertical offset: +45% / -45%
Horizontal offset: +15% / -15%
Image width: 4000mm
Image height: 2118mm
Image diagonal: 4526mm
3985mm to 3985mm (Lens range)

0.72:1 Fixed Out of range
Part #144-110103-XX

After determining the right projector and lens combination for your project, you can request a quote for these items, using the "Get a quote" button. If you do not require a quote but would like to export or share a summary of the results, click "Summary of results".

Note: If requesting a quote, your request will be sent to a Christie sales representative to respond.

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Summary of results

Boxer 2K30	0.72:1 Fixed
Lumens: 30,000	Part #144-110103-XX
Resolution: 2048x1080 (2K)	Horizontal offset: +0% / -0%
Illumination: Lamp	Vertical offset: +0% / -0%
Aspect ratio: 17:9	Image width range: 4000mm—4000mm
Series: Boxer	Image height range: 2117.65mm—2117.65mm
Discontinued: No	Image diagonal range: 4525.97mm—4525.97mm
Number of projectors: 2	Lens range: 3223mm—3223mm
Blend overlap: 100 mm	

Export Share **Get a quote**

Export the summary to PDF
Share the summary via email

Enter your contact details to request a quote.

Product* Boxer 2K30 **Lens*** 0.72:1 Fixed

First Name* Sam **Last Name*** Winn

Email* Sam@AV.com **Country*** United States

Phone* 7145550000 **State / Province*** California

Company* AV Americas Inc.

Additional details

* Required

By clicking "Submit" you acknowledge that you have read, understood and agree to our Terms and Conditions and Privacy Policy.

Request quote