



HT221 Projection Throw Distance

Thank you for choosing Knöll projectors! The HT221 projector uses digital light processing chip to give bright clear images. Its lens allows for a limited amount of zooming.

When **ceiling mounting** the HT221 the Knöll CM21 mount kit is easy to install and swivels for exact placement. It drops the projector about 3" and the projector lens is about 5" from the ceiling. If more of a drop is needed, the CM20+6 extender adds an extra 6" drop. As many CM20+6 can be added as needed.

The most frequently asked questions concerning HT221 DLP projector is:

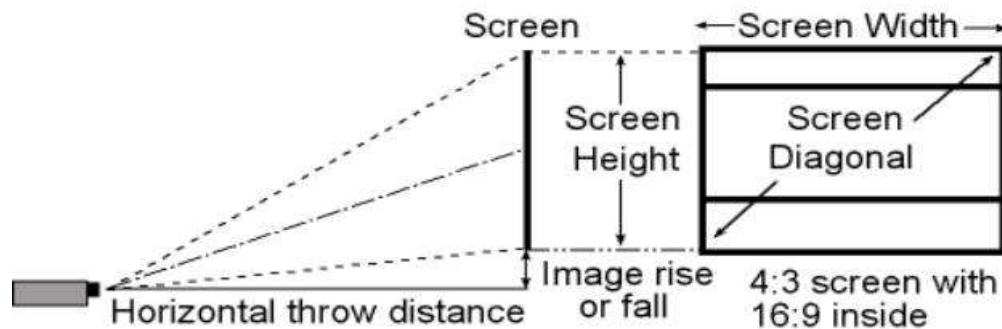
How much can the projector be tilted up or down (when ceiling mounted or floor mounted)?

About 10 degrees. The HT221 projector features adjustable keystone. Ideally the projector should be as near to level as possible with the screen drop as shown below.

Is the width of the 4:3 image the same as the 16:9 image?

Yes. When changing from a 4:3 to a 16:9 image the width stays the same, just the 16:9 image is on the 4:3 image with black rectangular boxes above and below the 16:9 image.

Projection throw distances are the distances from the projector lens to the screen. If the projector is mounted level (this is recommended) the image will drop (ceiling mounted projector) or rise (floor mounted projector). The drop or rise is the vertical distance from the projector lens to the bottom (floor mounted projector) of the image or the top (ceiling mounted projector) of the image. The center of the image will be tilted up 13 degrees if the projector is floor mounted, level and the keystone is set to 0.



Projection Throw Distance 4:3 Video Screen

Screen Diagonal	72"	78"	84"	100"	120"	160"	300"
Minimum Distance	114"	123"	133"	158"	190"	253"	474"
Maximum Distance	139"	151"	162"	193"	232"	309"	579"

Image Drop or Rise	8.4"	9.1"	9.8"	11.5"	13.75"	18.3"	35"
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MAXIMUM DISTANCE TO SCREEN = 1.93 x SCREEN DIAGONAL SIZE

MINIMUM DISTANCE TO SCREEN = 1.58 x SCREEN DIAGONAL SIZE

Projection Throw Distance 16:9 Video Screen

Screen Diagonal	88.25"	110"	122.5"	146.75"	165.25"	220.25"
Minimum Distance	155"	193"	215"	257"	290"	386"
Maximum Distance	189"	235"	262"	314"	354"	471"

MAXIMUM DISTANCE TO SCREEN = 2.14 x SCREEN DIAGONAL SIZE

MINIMUM DISTANCE TO SCREEN = 1.75 x SCREEN DIAGONAL SIZE

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