



## HD177 Throw Distance

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Thank you for choosing Knöll projectors! **There are two versions of the HD177, those shipped after November 1, 2004 and before. Please note that the lens assembly is different and therefore the throw distances are different.**

The HD177 is a state of the art projector with a high resolution 16:9 digital light processing chips to give bright clear images and display movies in a format similar to the one they were filmed in. Its Carl Zeiss lens allows for a wide level amount of zooming (1:1.25).

The HD177 projector is designed only for use with 16:9 aspect ratio screens. 4:3 images can safely be displayed on the 16:9 screens. Some screens have moveable screen width curtains that can be controlled by the HD177 dual trigger outputs.

The Knöll CM25 ceiling mount kit is easy to install and swivels for exact placement. It drops the projector about 3" and the projector lens is about 6" 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 DLP projectors are:

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

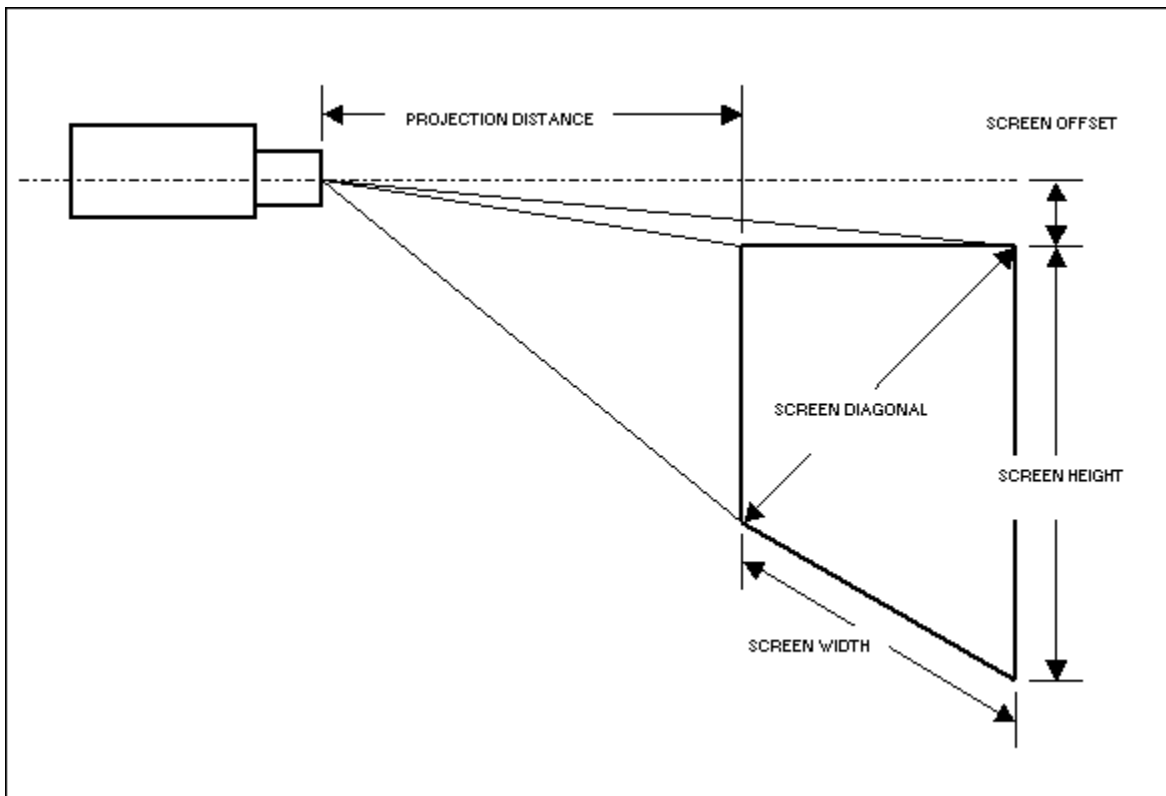
About 20 degrees. The HD177 has a digital adjustable keystone but for best overall image the HD177 projector should ideally be level if the screen is vertical (which is usually the case).

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

No. The HD177 has 16:9 imager and displays 16:9 or widescreen images using its full width of 1024 pixels by 576 pixels high. When displaying 4:3 images it still uses all of its 576 pixels in height but the image width is reduced to 768 pixels. Black bars are added on the sides of the image.

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Projection throw distances are the maximum and minimum horizontal distances from the projector lens to the screen. If the projector is mounted level (this is strongly recommended) the image will drop (ceiling mounted projector) or rise (floor mounted projector).



**HD177 Projection Throw Distance 16:9 Video Screen (shipped after November 1, 2004)**

Screen Diagonal	92"	103"	106"	110"	122.5"	146.75"
Minimum Distance	166.4"	186.7"	191.4"	199.7"	222.5"	266.3"
Maximum Distance	208"	233.3"	239.2"	249.6"	278.2"	332.8"
Image rise or drop	14.3"	16.7"	17.1"	17.8"	23.8"	26.7"
Viewing Area	45"x80"	50.5"x89.75"	52"x92"	54"x96"	60"x107"	72"x128"

MAXIMUM DISTANCE TO SCREEN (16:9) = 2.268 x SCREEN DIAGONAL SIZE

MINIMUM DISTANCE TO SCREEN (16:9) = 1.815 x SCREEN DIAGONAL SIZE

IMAGE DROP OR RISE (16:9) = 0.162 x SCREEN DIAGONAL SIZE

**HD177 Projection Throw Distance 16:9 Video Screen (shipped before November 1, 2004)**

Screen Diagonal	92"	103"	106"	110"	122.5"	146.75"
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Minimum Distance	151.5"	169.7"	174.5"	181.2"	201.8"	241.7"
Maximum Distance	210.8"	236.1"	243"	252.1"	280.8"	336.4"
Image rise or drop	14.3"	16.7"	17.1"	17.8"	23.8"	26.7"
Viewing Area	45"x80"	50.5"x89.75"	52"x92"	54"x96"	60"x107"	72"x128"

MAXIMUM DISTANCE TO SCREEN (16:9) = 2.292 x SCREEN DIAGONAL SIZE

MINIMUM DISTANCE TO SCREEN (16:9) = 1.647 x SCREEN DIAGONAL SIZE

IMAGE DROP OR RISE (16:9) = 0.162 x SCREEN DIAGONAL SIZE

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