



## HD110 Throw Distance

Thank you for choosing Knöll projectors! The HD110 is the first member of our first generation of DLP projectors with native 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 lens allows for a limited amount of zooming (1:1.2).

The Knöll CM24 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.

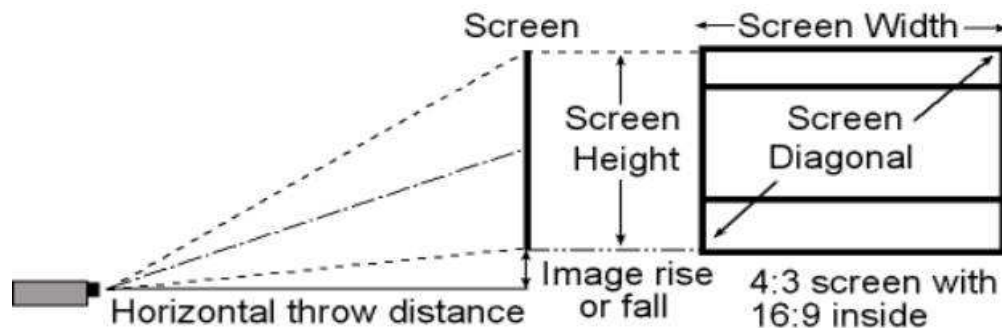
The most frequently asked questions concerning DLP projectors are:

How much can the projector be tilted down (when ceiling mounting) or up (when floor mounted)? About 20 degrees. The HD110 has a digital adjustable keystone but for best overall image the HD110 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 16:9 image uses a 848 pixels horizontally and the 4:3 image uses 800 pixels. There are some digital width adjustments in the HD110. Depending on the screen type you have and the image displayed there may be black rectangular boxes above and below or beside the image.

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).



### HD110 Projection Throw Distance 4:3 Video Screen

Screen Diagonal	72"	78"	84"	100"	120"	144"
Minimum Distance	105"	114"	122.5"	146"	174"	210"

Maximum Distance	127.9"	138"	149"	177"	213"	255"
Image rise or drop	5.5"	6"	6.5"	7.7"	9"	11"

MAXIMUM DISTANCE TO SCREEN (16:9) = 1.77 x SCREEN DIAGONAL SIZE

MINIMUM DISTANCE TO SCREEN (16:9) = 1.45 x SCREEN DIAGONAL SIZE

IMAGE DROP OR RISE (16:9) = 0.077 x SCREEN DIAGONAL SIZE

### HD110 Projection Throw Distance 16:9 Video Screen

Screen Diagonal	88.25"	103"	106"	110"	122.5"	146.75"
Minimum Distance	134"	156"	161"	167"	186"	223"
Maximum Distance	161"	188"	194"	201"	224"	267"
Image rise or drop	11"	13"	13"	14"	15"	18"

MAXIMUM DISTANCE TO SCREEN (16:9) = 1.83 x SCREEN DIAGONAL SIZE

MINIMUM DISTANCE TO SCREEN (16:9) = 1.52 x SCREEN DIAGONAL SIZE

IMAGE DROP OR RISE (16:9) = 0.125 x SCREEN DIAGONAL SIZE

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