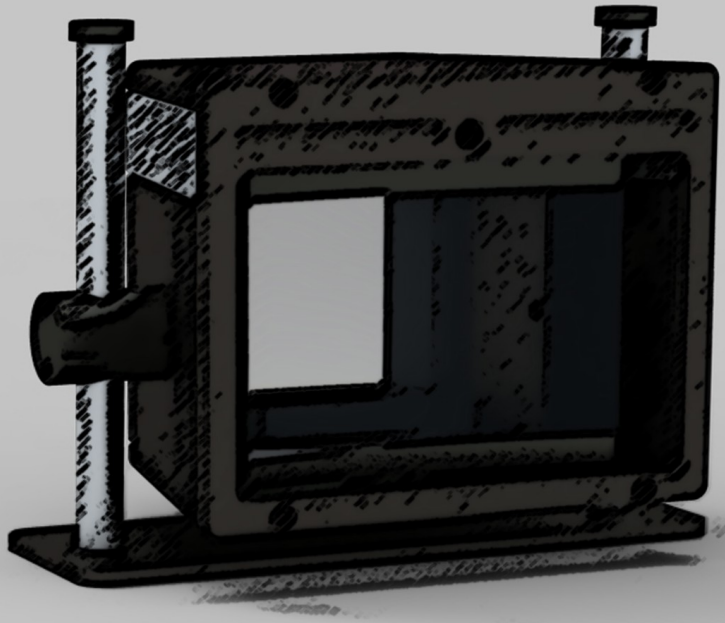


CINOMORPH

anamorphic lenses

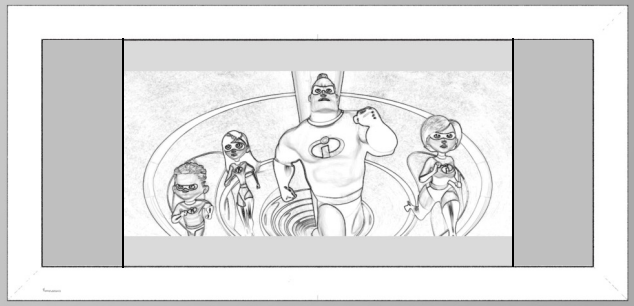
A projector with a high quality anamorphic lens enables the use of an ultra wide screen with the side masking system. And this makes it possible to present the films exactly with the same intensive vibes as in the commercial cinemas. The setup is called Cinemascope. Also, it is appropriate to be aware that the big majority of all time movies has been filmed in this 2.40:1 aspect ratio, which refers to this word Cinemascope. The true constant height system means that the widest movies are always also the biggest in size, and this is not happening in the home cinemas with a standard 16:9 aspect ratio. All the Cinomorph anamorphic lenses have the horizontal expansion optics, thus supporting perfectly a constant height, 2.40:1 Cinemascope setup. The lens series has different sister models based on both corrected prisms and cylindrical optics.

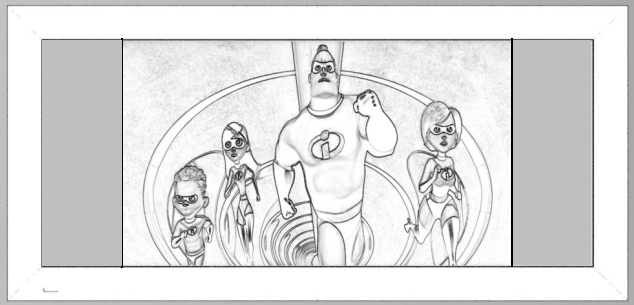
WHY ANAMORPHIC

A native 16:9 projector produces gray bars on top and bottom of the picture, when the aspect ratio is wider than its native resolution. Thus, for movies in a 2.40:1 aspect ratio, as much as 33 % of the image's vertical resolution is lost since the pixels in those areas are displaying black. In 4K panel this means almost 2 millions wasted pixels.

In order to restore the resolution and the extra brightness it offers, the picture can be expanded vertically so that every pixel on a 16:9 panel becomes active. This picture processing can be done electrically with the AV equipment, but as a result the picture geometry now becomes distorted. Everything in the picture is now too tall and thin.

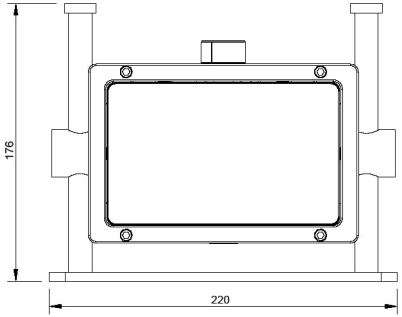
When the anamorphic lens is placed in front of the projector, it optically restores the original picture geometry by expanding the picture horizontally. It results not only a much bigger picture, but it now also feels like watching a film, not a video. Shouldn't you too be watching the movies in the original 2.40:1 Cinemascope format the way the directors recommend, just like in real commercial movie theaters.

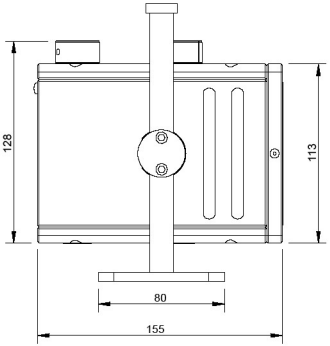




Cinomorph _prismatic

This lens is based on the movable achromatic prisms and the spherical focus corrector. The lens housing has two knobs on top to control the expansion ratio, which can be steplessly adjusted from pass thru mode up to 2.40:1 Cinemascope format. There is also a motor option available for assisting the aspect ratio switching.

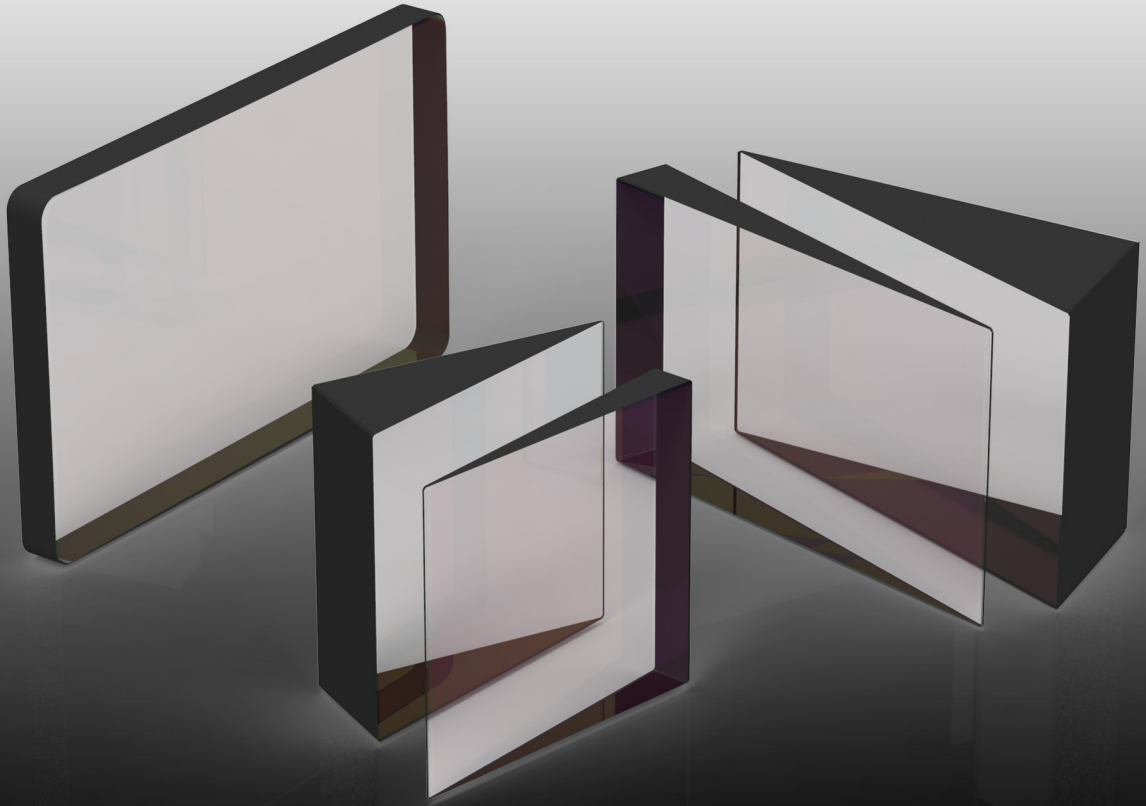




PRISMASONIC

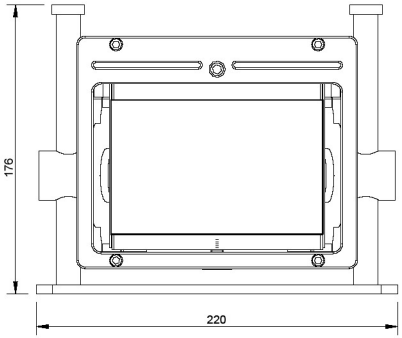
Prism Optics

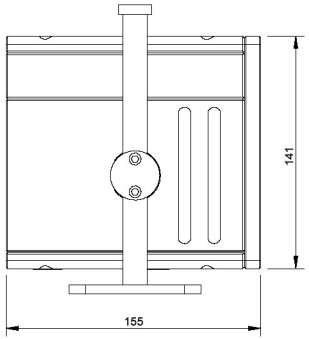
The optics is formed by two high precision, achromatic prisms and a spherical focus correction element. All the air-glass surfaces have broad band anti-reflection coatings to prevent the reflections, and to maximize the light output of the system. The achromatic optics means that the both prisms are made of two prism components of opposite polarity and different optical properties. The components are eventually seamlessly bonded together. The formed pair of achromatic doublets effectively reduces the chromatic aberration, which would occur as a color fringing in a picture projected through the single prisms.



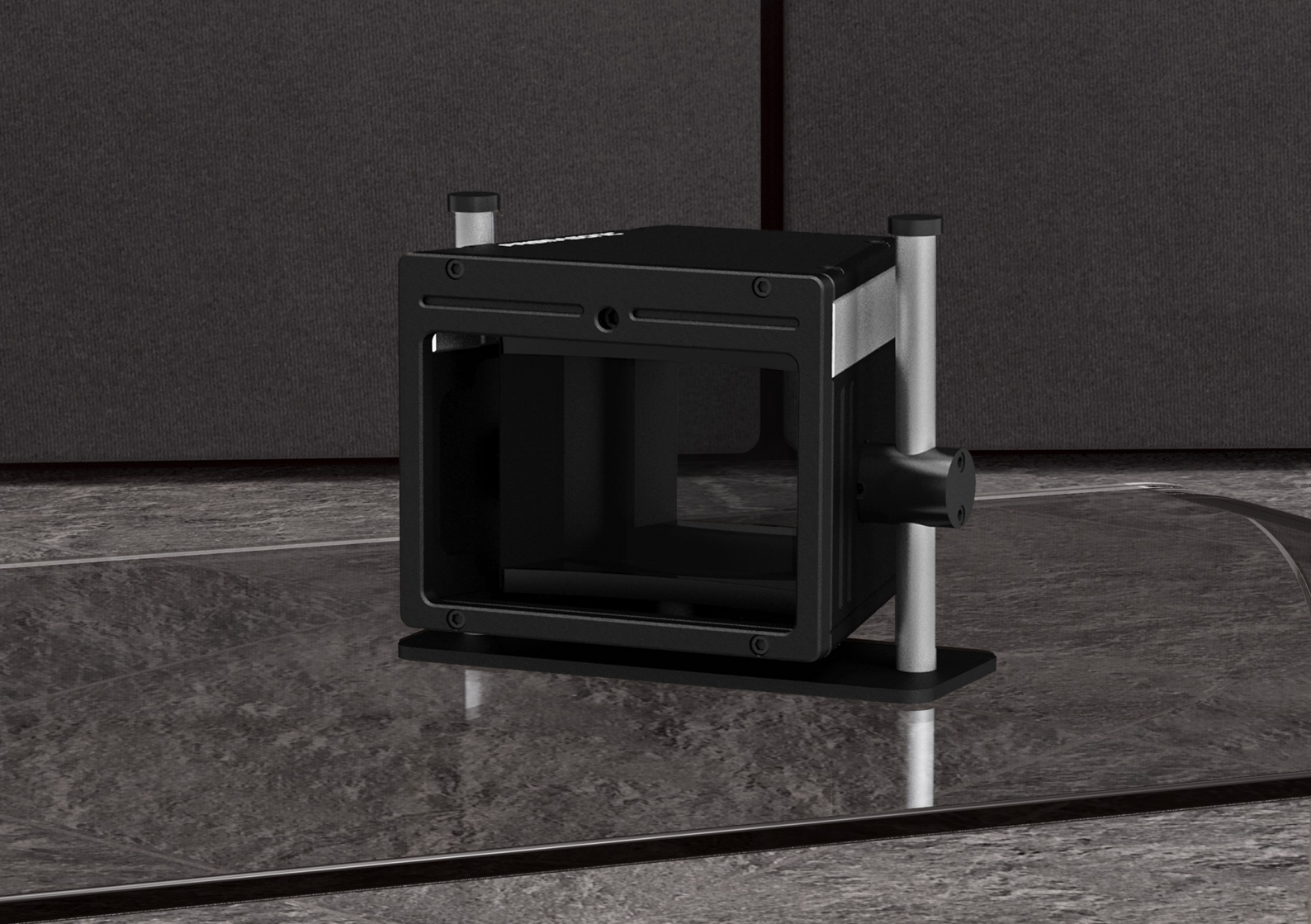
CINOMORPH _cylindrical

This lens model has a very large aperture 4-element cylinder optics, which allows to project a large picture from a small distance. The cylindrical precision optics produces a reference class picture quality with an extremely good corner-to-corner uniformity. The continuous focus correction enables the throw distances down to 2 meters. An optional remote controlled model gives an extra facilitating feature for adjusting the focus.



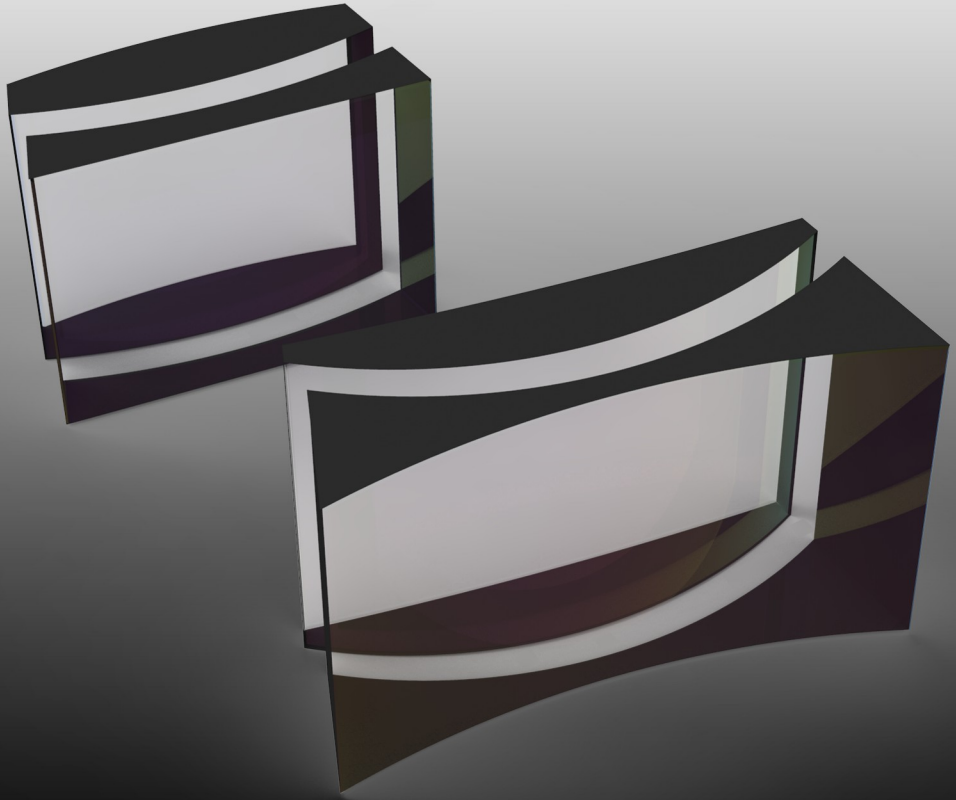


PRISMASONIC



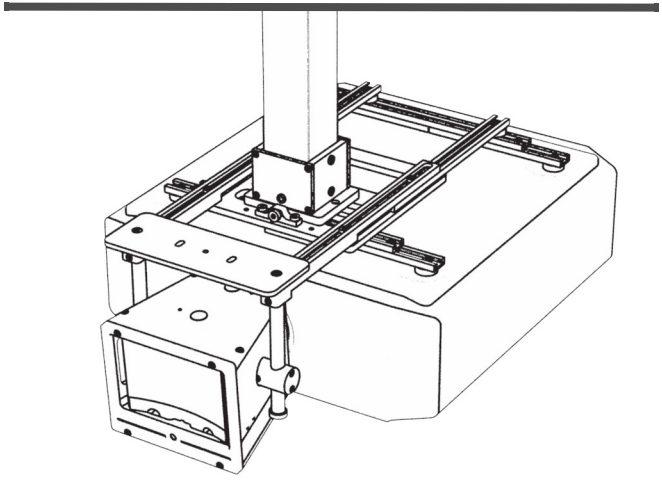
Cylindrical Optics

The cylindrical optics consists of two high precision, achromatic lenses, which are optically cylinders despite of the rectangular appearance. All the air-glass surfaces have broad band anti-reflection coatings to eliminate ghosting due reflections, and to maximize the luminance of the projector. The achromatic optics means that the both lenses are made of two optical components with opposite polarity and different optical properties. After shaping, polishing and coating, the components are eventually seamlessly bonded together. The formed pair of achromatic doublet cylinders completely reduces the chromatic aberration, which would occur as a color distortion in a picture.



Ceiling Mount

Ceiling mount for the Cinomorph lenses is an extremely sturdy, fully custom made construction, which allows to attach all the Prismasonic lens models with any projector in the market. Its design provides the system with a clean, compact and uncluttered look. The user defined, custom length extension rod can accommodate a drop from ceiling to inverted projector foot of between 22 - 106 cm (8.7 - 41.7 inches).



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CONTACT PRISMASONIC

Mr. Anssi Leppanen
+358 40 5005251
anssi.leppanen@prismasonic.com
www.prismasonic.com

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