

SINELUX-ULTRA 2.8/180mm
35mm FILM

SINELUX-ULTRA



CINELUX-ULTRA

13 lenses with focal lengths of 105 to 180 mm for long distances, aperture f/2.0 to f/2.8



Award-winning high-performance lens for very large projection distances



The very long projection distances relative to the screen size at many open-air events require much longer focal lengths. The 13 models of the Cinelux-Ultra series are then the optimum projection lenses, also for wide-screen projection in combination with the Cinelux anamorphic attachments.

Employees of SCHNEIDER-KREUZNACH won their second Technical Achievement Award of the Academy of Motion Pictures Arts and Sciences for this cinema lens series (or more precisely: for its then version) in 1978. This series extends our cinema lens program to include long focal lengths over 100 mm such as are always required when the projection distance is particularly long with respect to the screen size, e.g. with very big movie theaters and for most open-air events.

The extremely high resolving capability up to the image corners and the astounding brilliance ensure that even the smallest image details are reproduced clearly even at large projection distances. Another remarkable feature is the extremely uniform brightness distribution over the total screen area.

The Cinelux-Ultra series harmonizes to perfection with the WA-Cinelux Anamorphic 2x MC and, for even larger projection distances, with the Tele-Cinelux Anamorphic 0.5x MC. Suitable extension tubes are available to combine the anamorphic lens with the base lens – see Accessories on page 24.

The Cinelux-Ultra lenses up to 150 mm focal length are suitable for 35 mm film and 70 mm film; the larger focal lengths are only suitable for 35 mm.



CINELUX-ULTRA 2/115



CINELUX-ULTRA 2.8/180

10
11



Aspect ratio of the projected image

1:1.37

Old standard format from 1931, used only with very old movies

1:1.66

Standard format since 1953, very popular in Europe

1:1.85

Flat widescreen since 1953, still used worldwide

1:2.39

Cinemascope since 1952 (anamorphic)

35 mm and 70 mm formats

The traditional film format of the professional cinema film is the vertically running, perforated 35 mm film. Since the soundtrack runs on a side next to the perforation, a width of only around 21 mm is left for the film image. Depending on the image aspect ratio (1.33 to 2.65) and any possible anamorphic compression, a number of different image heights are customary.

To increase the image quality, 35 mm film has also been used running horizontally for larger film sizes and 70 mm film was introduced (with aspect ratios up to 2.76). However, the taking format (nega-

tive) may be different from the reproduction format (positive). The negative is often taken in a larger size to have reserves for the loss of quality on multiple copying.

Only the positive size is important for the choice of the projection lens. So that the variety of image sizes and aspect ratios can be projected onto the screen size of the movie theater without loss and as large as possible, cinema lenses are required with very finely stepped focal lengths or steplessly adjustable focal lengths. This means that every customary film size and aspect ration can be shown in optimum size when required.