

Quick magnifier facts

- Every magnifier has a specific lens power which is sometimes indicated in dioptres on the handle. The higher the number, the stronger the level of magnification.
- To find the magnification power of the lens, simply divide its dioptres by 4.
- As magnification power increases, lens diameter and field of view decrease. NOTE: The lens diameter is not always identical to the optical zone which is sometimes slightly smaller.

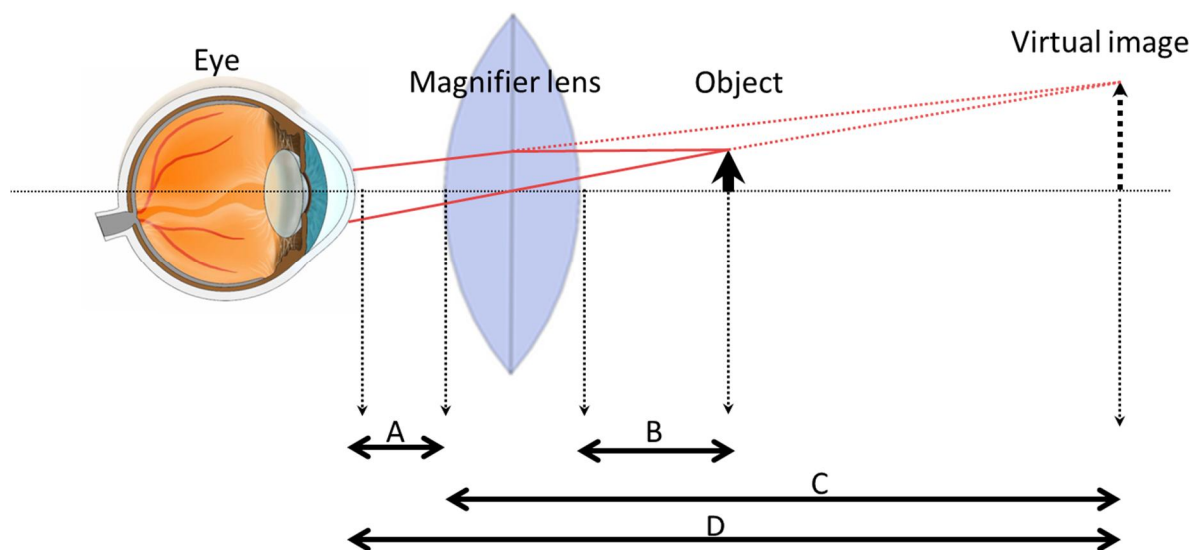
Note: There is no such thing as a large powerful magnifier lens!



Finding the ideal viewing distance

- Stand magnifiers always provide the ideal lens-to-object distance since the lens housing is placed on the object. Therefore, stand magnifiers are also called fixed-focus magnifiers.
- Based on this “built-in” lens-to-object distance, the ideal eye-to-lens distance is indicated on the handle of all SCHWEIZER stand magnifiers.
- Hand-held magnifiers have no fixed lens-to-object distance. Any change in the lens-to-object distance will influence the eye-to-lens distance.
- The ERGO-Style and ERGO-Lux MP hand magnifiers of SCHWEIZER’s ERGO-Line range are an exception to this. Thanks to their special handle design, the ideal lens-to-object distance is automatically found when the handle end is placed on the object and the magnifier lens is held parallel to the object.
- An eye-to-image distance of 400 mm is considered to be ideal to provide a clear image. The following table provides an overview of various magnifier lens powers and diameters in relation to the distances required for clear crisp images.





A = Eye-to-lens distance
 B = Lens-to-object distance
 C = Lens-to-image distance
 D = Eye-to-image distance

Lens power	Total lens diameter	Lens-to-object distance B	Eye-to-lens distance A	Lens-to-image distance C	Eye-to-image distance D
56D	35mm	13mm	40mm	360mm	400mm
48D	35mm	16mm	40mm	360mm	400mm
39D	35mm	21mm	50mm	350mm	400mm
28D	35mm	32mm	70mm	330mm	400mm
24D	55mm	34mm	100mm	300mm	400mm
20D	55mm	37mm	140mm	260mm	400mm
16D	60mm	50mm	200mm	200mm	400mm
16D	35mm	48mm	120mm	280mm	400mm
12D	70mm	57mm	220mm	180mm	400mm
12D	35mm	62mm	140mm	260mm	400mm
10D	75x50mm	67mm	165mm	235mm	400mm
8D	100x75mm	71mm	195mm	205mm	400mm
8D	85mm	73mm	200mm	200mm	400mm
6D	100mm	88mm	220mm	180mm	400mm