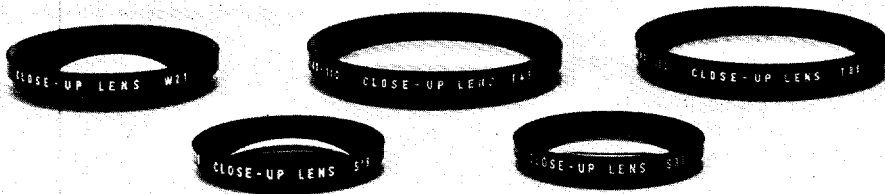


ASAHI  
**PENTAX**

## PENTAX-110 Close-Up Lenses

for lenses:  
24mm F2.8 Standard  
18mm F2.8 Wide-angle  
50mm F2.8 Telephoto



### Pentax-110 Close-Up Lenses

Pentax-110 Close-Up Lenses are convenient attachments that fit over the front of Pentax-110 interchangeable camera lenses to enable much closer focusing and higher magnifications than possible with the camera lens alone. To mount a close-up lens, simply screw it into the filter threads of the master lens. Exposure is controlled in the normal manner when a Close-Up Lens is used and no special adjustments are required. Focusing is performed as normal with the master lens, but focusing range and magnifications are altered as indicated in the chart on the back.

### Types and Sizes

Pentax-110 Close-Up Lenses come in three basic types and sizes, and each produces a different magnification. The two type "S" Close-Up Lenses are for use with the Pentax-110 24mm Standard Lens; the "W" type is for use with the wide-angle lens, and the two type "T" Close-Up Lenses are for the 50mm telephoto lens. The focal length of each close-up lens is indicated in centimeters besides the type designation. For example, the S31 Close-Up Lens has a focal length of 31cm (310mm); that of the T26 Close-Up lens is 26cm (260mm). The shorter the focal length of the close-up lens, the larger the magnification.

## Lens Care

Like Pentax-110 interchangeable lenses and all other Pentax optical products, Pentax-110 Close-Up Lenses are precision optical products. Always protect them when not in use and clean them periodically as you would the camera lens. Do not screw the Close-Up Lens too tightly into the master lens as it may be difficult to remove.

### Use with Filters

"S" and "W" Type Pentax Close-Up Lenses can be used together with Pentax-110 filters (filters are not available for the 50mm F2.8 telephoto lens). Filters screw over the close-up lens after the close-up lens is screwed into the master lens. Lens hoods may also be screw over the close-up lenses (including telephoto models).

## Shooting Techniques

Techniques for shooting with Pentax-110 Close-Up lenses are much the same as with close-up lenses for 35mm Pentax 35mm SLR Cameras. A helpful guide on the use of close-up lenses is "How to Select and Use Pentax SLR Cameras" by Carl Shipman (H.P. Books, P.O. Box 5367 Tucson, Arizona 85703 U.S.A.). The other handy Pentax SLR Guides available also serve as handy references.

## CLOSE-UP LENSES

●No.	●Used with	●Focusing Range	●Magnification
S31	24mm F2.8 standard	20 ~ 36cm	1/6.1 ~ 1/12.7
S16	24mm F2.8 standard	15 ~ 20cm	1/4.1 ~ 1/6.4
W21	18mm F2.8 wide-angle	16 ~ 26cm	1/5.7 ~ 1/11.3
T26	50mm F2.8 telephoto	48.5 ~ 91.9cm	1/8.0 ~ 1/17.1
T43	50mm F2.8 telephoto	34.4 ~ 48.9cm	1/5.4 ~ 1/8.6

- The above magnifications are based on fractions of 1X or life-size (i.e. the magnification at which the image of the subject on film has the same dimensions as the actual subject itself.)



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