

# TELEPHOTO & WIDE ANGLE

AUXILIARY LENSES



FOR

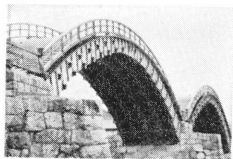
# **Taron V-R**

## TARON AUXILIARY TELEPHOTO LENS

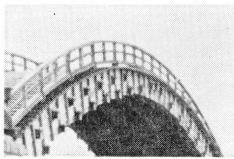
The auxiliary telephoto lens is to be screwed into the front of the camera lens. Its use results in a moderate increase in effective focal length, magnifying any given object by 2 areas, or  $1\frac{1}{3}$  times linear. This increase in focal length improves portraiture perspective by providing a larger image size at a given distance and by avoiding distortion caused by having the camera too close to the subject. Medium distance sports events, distant scenery, camera-shy subjects and small objects normally requiring the camera to be used at closer than its normal focusing range, can all be photographed with improved perspective rendition and increase image size with the Taron Auxiliary Telephoto Lens.

## TARON AUXILIARY WIDE ANGLE LENS

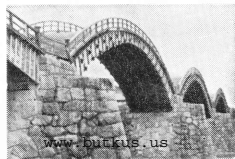
The auxiliary wide angle lens is to be screwed into the front of the camera lens. A wide angle lens, giving increased angle of coverage, is almost indispensable when shooting in cramped quarters, especially in group photography indoors. For sweeping panoramic photos of scenery outdoors, the wide angle lens has definite application. The use of the auxiliary wide angle lens results in an area increase of about 75% as compared with the normal camera lens used at the same distance from the subject.



Standard Lens



Telephoto Lens



Wide Angle Lens

## HOW TO FOCUS - TELEPHOTO

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With the auxiliary telephoto lens in place on the camera, the distance scale of the prime lens should be set at 0.6 times the actual subject to camera distance, with the exception of infinity. For example; if the actual distance is 20 feet, the camera distance setting should be set at 12 feet because  $20 \times 0.6 = 12$ . If the actual distance is 5 feet, the camera is set at 3 feet as  $5 \times 0.6 = 3$ . Remember, when shooting at infinity, however, leave lens distance scale set at infinity.

## HOW TO FOCUS - WIDE ANGLE

The Taron auxiliary wide angle lens has been designed to permit a universal setting for all distances between 25 feet and infinity, by setting the focusing scale of the camera at 6 feet. When actual shooting distance is closer than 25 feet, use camera settings as below :

Actual Subject Camera Distance	Camera Setting
$\infty$ (Infinity)	7'
25'	6'
15'	5'4"
10'	5'
8'	4'8"
6'	4'2"
5'	4'
4'	3'6"
3'6"	3'3"
3'	3'

These settings are only approximate because the prime lens' depth of field is greatly increased by the use of the auxiliary wide angle lens. With a lens aperture of  $f:8$  and camera distance setting of 5' 4", all objects between 8 ft. and infinity will be in focus.

# FOR BEST RESULTS

Taron Auxiliary Lenses will provide highly satisfactory results if the following factors are taken into consideration.

There is a tendency for auxiliary lenses to "vignette" or cut off corners of the negative area, especially if they are mounted too far from the surface of the camera's prime lens. The insertion of filters between the prime and auxiliary lenses may result in marginal image cut-off by increasing the distance between the two lenses.

For maximum definition and image sharpness when using auxiliary lenses, use lens openings  $f:4.5$  or smaller ( $f:5.6$ ,  $f:6.3$ ,  $f:8$ ,  $f:11$ , etc). When softer results are acceptable, larger lens apertures may be used.



Read these instructions again carefully. If your results are not completely satisfactory, you have not followed the directions accurately. Good shooting and added camera enjoyment will be obtained when Taron Auxiliary Lenses are properly used.

