

Warranty: The Auto Tele Converter is fully guaranteed against defects in workmanship and material for a period of Three years after date of purchase.

Printed in Japan

PANAGOR®



AUTO TELE CONVERTER 2X

The Automatic Tele Converter doubles the effective focal length of any SLR normal or telephoto lens, while maintaining the automatic diaphragm operation of automatic lenses.

With non-automatic lenses, the Automatic Tele Converter works equally well on a non-automatic basis.

The Converter fits directly into the camera body and accepts any lens made for such camera body. The normal 50mm lens becomes a 100mm, the 100mm a 200mm, and so on.

The "converted" lens will focus over the same range as the "unconverted" lens.

The converter changes your f stop scale by two openings: $f/5.6$ becomes $f/2.8$, $f/8$ becomes $f/4$ and so on. If you prefer, you can set your exposure meter at $1/4$ th the usual ASA speed and read directly (set at ASA 100 for Tri X, for example).

However, do not use wide openings, but stop down at least two stops beyond the maximum aperture of your lens for critical sharpness. If your lens's maximum aperture is $f/1.8$, stop down to at least $f/4$ (which will be the equivalent of $f/8$) and so on.

Larger openings can be used, but there will be some loss of sharpness.

The converter can be used with zoom lenses, for close-up work, and even with mirror lenses. However, only lenses of good quality should be "Converted", since the Converter also brings out and enlarges faults of the lens with which it is used. For best results, use a tripod when you "convert" a longer than your normal lens.

The rangefinder prism or grid of the camera's viewfinder groundglass is matched to the normal focal length lens. With longer lenses or Converter-Lens combinations, it may not function properly. In such cases, correct focus is obtained by focusing on the groundglass portion of the finder, and disregarding the rangefinder system.

On some cameras, the corners or the upper portion of the viewed groundglass image appear blacked out when long lenses are used. A similar effect may result from the lengthening of a normal or moderate telephoto lens by the use of the converter. Such loss of image is caused by the size of the camera's mirror and will not occur on the negative or slide which will be fully exposed.

Properly understood and used, the Automatic Converter will greatly add to the versatility of your lenses and the effectiveness of your picture-taking.