

# TRIOPTIC SYSTEMS

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## GENERAL

The Trioptic System is designed to meet the needs of the patient who requires both distance magnification and near magnification to be readily available. This system has three parts:

**1)** The upper section is a telescopic unit mounted in the Bioptic position. It can either be a standard Bioptic Telescope, with powers of 1.7X, 2.2X, 3.0X or 4.0X; a Wide Angle Bioptic Telescope, with powers of 1.4X, 1.7X, 2.2X or 3.0X; a Spiral Galilean Telescope in powers of 3.0X or 4.0X; or a Spiral Expanded Field Prism Telescope, with powers of 2.0X - 8.0X.

**2)** The lower section is either a Bifocal Microscope or a Reading Telescope. Because of size and space limitations, the Type E Bifocal Microscope (13 x 23 mm) is the one used if a microscope is to be placed in the lower portion of the Trioptic System. The powers available with the Bifocal Microscope are 2X, 4X, 6X, 8X and 10X. If a Reading Telescope is prescribed for the lower portion of the lens, it can either be of Galilean Design (2.5X, 3.5X or 4.5X) or of the Expanded Field Prism design (2.5X, 3.5X, 4.5X, 6.0X or 8.0X).

**3)** Both of the above units are mounted into a carrier lens. It has the patient's correction, which may be his distance correction or some intermediate-range correction, and can also have a tint for light-sensitive patients. It is even possible to prescribe a bifocal carrier lens (Executive design).

It should be noted that the patient's spectacle correction can also be incorporated in the distance telescope and also into the Bifocal Microscope or Reading Telescope.

## FITTING

The comments in the Fitting sections for [Bioptic Telescopes](#), [Spiral Expanded Field Prism Telescopes](#), [Reading Telescopes](#), and [Bifocal Microscopes](#) apply here also. One important factor that must be kept in mind when fitting Trioptic Systems is that an adequate viewing area between the distance telescope and Reading Telescope/Bifocal Microscope must be allowed for general seeing. A minimum of 8 to 10 mm separation must be allowed between the distance and near components. This requires a frame with adequate vertical dimensions. Please see our [Telescope Frame Selection Guide](#) for frame options.

## POWERS AVAILABLE

Any combination of the following:

### Carrier Lens:

Any standard sphere and cylinder combination;  
single vision or executive bifocal

### Distance Telescope:

Standard Bioptic 1.7X, 2.2X (Model I or II). 3.0X, 4.0X  
Spiral Galilean 3.0X, 4.0X  
Wide Angle Bioptic: 1.4X, 1.7X, 2.2X, 3.0X  
Spiral Expanded Field Prism Design: 2.0X - 8.0X

### Reading Telescope:

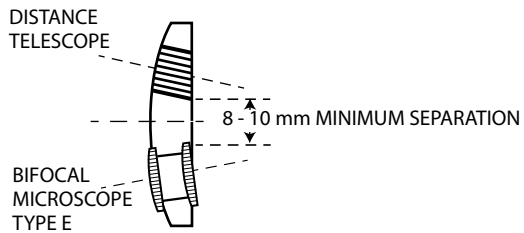
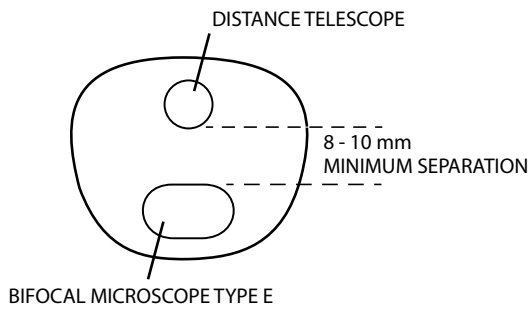
Galilean Design: 2.5X, 3.5X, 4.5X  
Expanded Field Prism Design: 2.5X, 3.5X, 4.5X, 6.0X, 8.0X  
Bifocal Microscope (Type E): 2.0X - 10.0X



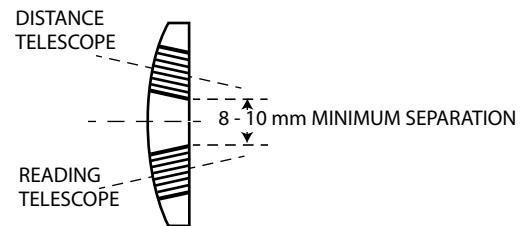
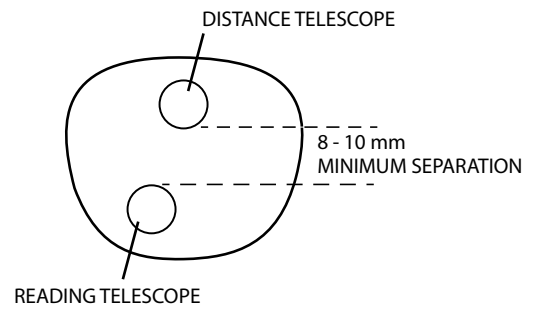
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Trioptic System with 2.2X Bioptic II for distance and 4X Bifocal Microscope for near mounted in a Yeoman 6 frame



Trioptic System with Telescope for distance and Bifocal Microscope for near



Trioptic System with Telescope for distance and Reading Telescope for near



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1-800-345-4009