GOOD TELESCOPE PERFORMANCE

Your telescope will provide good performance only if it has good optics (mirror, diagonal and eyepiece) and its mounting is carefully designed to minimize shake and vibration.

Carle photo adaptors are the result of more than 30 years of telescope observation and astro photography and they provide practical and economical performance based on experience and extensive field testing.

It is essential to have telescope optics carefully collimated (aligned) and our collimatcap, sold at small cost, assures correct alignment.

With good optics and rigid mounting, plus appropriate adaptors, anyone may take truly remarkable pictures of the sun, moon, nebula, star clusters, other galaxies, comets and meteors.

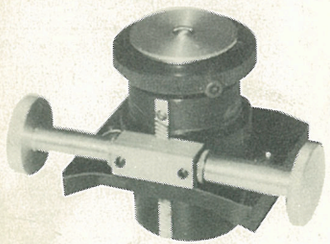
Careful and accurate focusing is absolutely essential to getting good photos of sky objects and it is suggested you "bracket" your focusing and time of exposure, keeping careful records to be compared with the quality of resulting pictures.

Good shooting!

* * * *

CARLE ASTRO-PHOTO ADAPTORS FOR CAMERA AND TELESCOPE

NEW CARLE III RACK AND PINION HELICAL-THREADED FOCUSER



CARLE III FOCUSER

- Instantly change from eyepiece to camera
- Convenience and speed of rack and pinion
- Fast, smooth, precise focusing to .001 inch accuracy
- More than 4½ inch focusing travel
- Larger aperture for 1¼ in. eyepiece or camera. Smaller diagonal required.
- Unique construction allows adaptor attachment to removable barrel

Order from **Cave Optical Co.,** *4137 E. Anaheim, Long Beach, Ca. 90804, exclusive distributors.*

CARLE II PHOTO-VISUAL, HELICAL FOCUSER

Accepts all Carle camera accessories and functions.

- Push-pull adjustment, elegantly simple
- Threaded fine-focusing adjustment



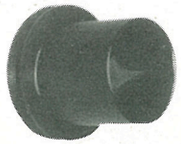
CARLE II FOCUSER

- Quickly convertible and locking at focus with eyepiece and camera
- Like all Carle adaptors, made with hefty aluminum alloy and fine anodyzed
- Takes standard 1¼ in. eyepiece, or Japanese size with adaptor
- Accepts Carle camera adaptors and eyepiece projection holder
- Ideal for use with Universal Camera Adaptor and Sun Screen
- Full function focuser at minimum cost.
- Dead black finish and anti-reflection threaded barrel and drawtube.
- Collimation and dust cap furnished without extra cost on CARLE II and III focusers

CARLE CAMERA ADAPTORS FOR TELESCOPES

These adaptors attach 35 mm., single lens reflex cameras to telescopes with focusers accepting standard 1¼ in. eyepieces. The adaptor substitutes for camera lens, which must be of demountable type.

- Available in 2 types which are identical except in thread pitch attaching to camera lens mount.



CAMERA ADAPTOR

- Type P adaptor threads directly into cameras with standard threaded lens Mounts.
- Type T adaptor threads into T mount adaptor required for particular bayonet lens camera.
- In ordering, specify Type adaptor required for your camera.

- Fastens camera rigidly to telescope and provides prime focus, tele-extender and barlow astro and terrestrial photography with your telescope.
- Particularly useful with Carle Focusers, which permit closer coupling of camera and telescope.

CARLE EYEPIECE PROJECTION ADAPTOR

- This adaptor permits the increased magnification of an eyepiece projecting image through camera adaptor.
- Fits snugly over focused eyepiece and accepts aligned camera adaptor, both secured rigidly by hand-adjusted screws.



- Permits variable magnification by varying distance between eyepiece and camera film.
- Accepts all 1¼ in. standard eyepieces and smaller Japanese size fitted with 1¼ in. bushing.

EYEPIECE PROJECTION ADAPTOR

- With eyepiece pre-focused, final size and alignment is secured by sighting through SLR camera eyepiece.
- Moon, planets and terrestrial photos may be made without using telescope drive. Fainter images require telescope drive and correction provision.

CARLE COLLIMATION CAP

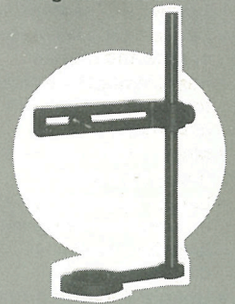
- For maximum resolving power and best operation of your telescope, all optical parts must be exactly aligned (collimated) so that axis of optical beam is in center of focuser and image plane of telescope is precisely parallel with field lens of eyepiece or camera film.
- The collimation cap furnished without extra charge on both Carle II and Carle III focusers, may also be purchased separately for use with other focusers of standard diameter.
- When not in use for alignment, cap keeps dust and dirt out of focuser and protects delicate optical surfaces of telescope.
- Use of cap makes optimum optical alignment much simpler and quicker, providing collimation check not otherwise available and "fine tuning" your telescope.

JAPANESE EYEPIECE ADAPTOR

- Standard Japanese eyepieces are .965 in diameter, but may be used in American standard 1¼ in. dia. focusers by use of this adaptor
- Many of the smaller Japanese eyepieces are of good or excellent quality and are more reasonable in price than American optics of equal quality.
- At small cost, one of these adaptors may materially increase the range of useful magnifications you can employ.

CARLE UNIVERSAL CAMERA MOUNT FOR TELESCOPES

- This camera or sun projection screen holder is designed solely for use with Carle focusers and will not fit other types.
- It permits taking astro or terrestrial pictures in all recognized modes.



- Accepts practically any kind of camera with tripod mount.
- Pictures requiring manual focusing are best made with single lens reflex camera
- Rigidly clamps to focuser barrel and construction minimizes or prevents vibration.
- Prime focus, telextender, barlow and eyepiece projection photos may be made without auxiliary attachments.

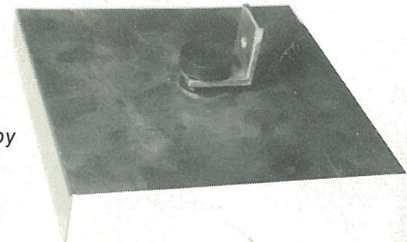
UNIVERSAL MOUNT

- Permits pictures through larger aperture barrel without drawtube of focuser.
- May be used to take astro or terrestrial pictures with camera alone while guiding with telescope.

SUN PROJECTION SCREEN

- This 6 in. square, shaded screen may be attached to Universal Mount in place of camera.
- It permits reflection of image of sun projected by eyepiece of telescope.
- Includes angle bracket mounting which may also rigidly hold camera for horizontal format, through camera alone, astro or terrestrial photos.
- Projected sun image is extraordinarily clear and detailed for visual observation or photography.
- Provides safe and convenient sun observation without dangers of direct use of eyepiece.

SUN SCREEN



All adaptors made by
Jackson T. Carle
Fresno, California

- WARNING: Never observe sun directly with any optical device not especially equipped for sun use. Otherwise, possible blindness and damage to optics may result.