JMI Telescopes

Manufacturing Advanced Telescope Products

Total Solar Eclipse Coming to the U.S. August 21, 2017!

Be Prepared!

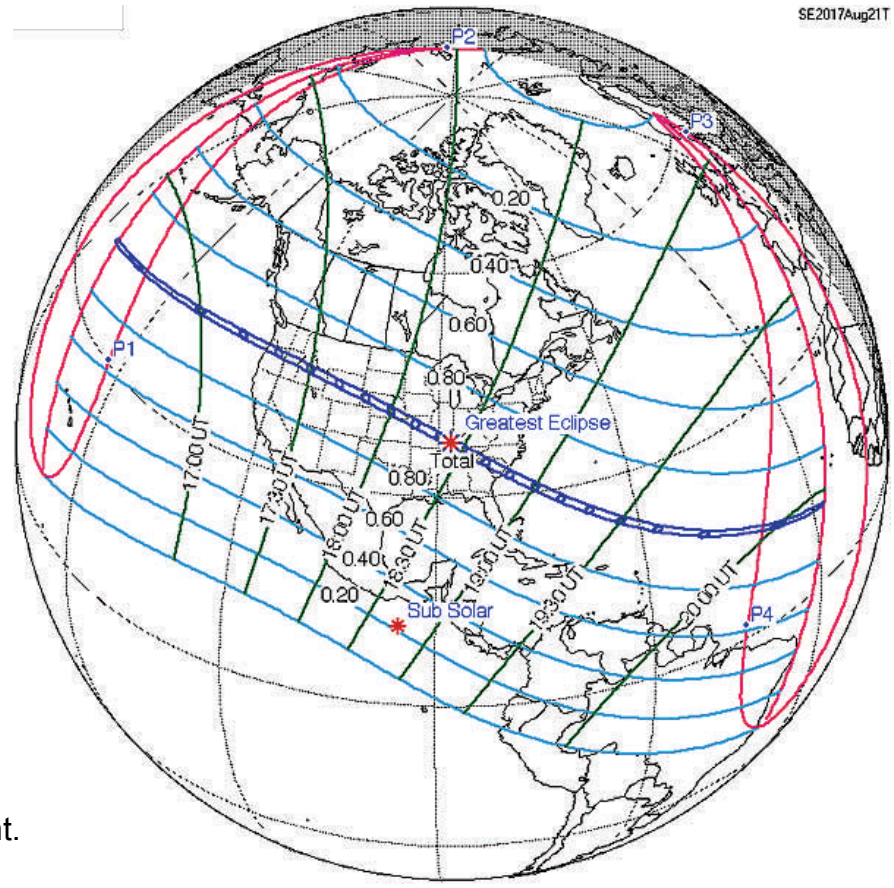
- If you don't, you'll wish you had...
- Research best locations
- Schedule time off
- Make reservations
- Upgrade your equipment
- Be safe!!!

Times (UTC)

Partial begin	15:46:48
Total begin	16:48:32
Greatest eclipse	18:26:40
Total end	20:01:35
Partial end	21:04:19
Duration (at max)	160 sec

The next total eclipse over the continental U.S. will be in April of **2024**. The last one was in **1979**.

WARNING: Do not look directly at the Sun without proper equipment.



Eclipse Predictions by Fred Espenak, NASA's GSFC

Contact JMI for More Information or to Place an Order

JMI TELESCOPES
Jim's Mobile, Inc.
8550 W 14th Ave
Lakewood, CO 80215
U.S.A.

JMITelescopes.com
info@JMITelescopes.com
facebook.com/JMITelescopes
(303) 233-5353 Local & International Calls
(800) 247-0304 Toll Free Calls in the USA

JMI
The Company To Watch

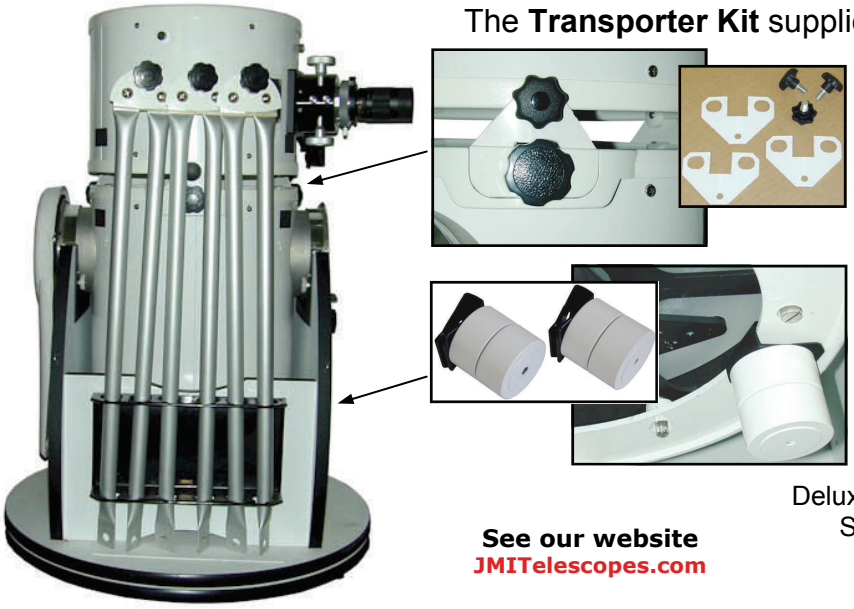
See our website JMITelescopes.com for Current Prices

Free Shipping in 48 States

SALE **Watch for Red-tag Sales**

VISA MasterCard

Transporter Storage Kit for Meade LightBridge



The **Transporter Kit** supplies accessories for compact **transport and storage** of your **Meade LightBridge**. It includes a bracket for **storing the truss rods** and brackets for **securing the nose assembly to the mirror tub**, both intended to ease the job of transporting the telescope. **Mirror tub counterweights** are included (Deluxe version Only) for counterbalancing equipment placed on the nose assembly (on a scope that is already nose heavy without extra equipment).

Deluxe Version, includes counterweights (10”–16”)
Standard Version, NO counterweights (8”–16”)

See our website
JMITelescopes.com

Train-N-Track™ Motor Drive for Meade LightBridge and More

The **Train-N-Track (TNT)** system is a basic alt-azimuth motor drive system with adjustable or trainable tracking, available for the **8", 10", 12" and 16" LightBridge** telescopes **and more**. A simple **30-second training procedure** allows the scope to **track for 10 minutes or more**. The TNT motor drive system includes adjustable speeds on both axes, high speed centering and one-touch re-positioning of the altitude tangent arm. It is powered by an **AC adapter or battery pack** for 20 to 25 hours of operation. The azimuth friction drive also allows you to **move the telescope around by hand without unlocking any clutches**. You just let go and the drive takes over.

Installation is easy. You must supply your own telescope/mount (or include an optional 10”–16” LightBridge in your purchase). Train-N-Track is available for:

Astro-Tech Voyager Mount
Meade LightBridge Dobsonians (8" to 16")
Vixen Porta and Porta II Mounts
Explore Scientific Twilight I Mount

Carrying Cases for Most Popular Telescopes

JMI Carrying Cases include **crush-resistant die-cut foam** contoured to safely hold your telescope during transport. The larger cases are manufactured with 1/4" plastic for **super-strong but light-weight** support. Most cases include an extra **handle** on one end with **wheels** on the opposite end for **easily maneuvering the case without lifting** the entire weight. These attractive and efficiently-designed cases are substantially smaller than the original shipping box and even smaller than most soft cases. They **protect your investment** while making it easier to move your scope from one location to another.

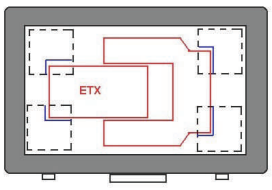
From soft to hard, small to large, SCT to refractor, specific to generic, with or without wheels, JMI probably has what you need!

Celestron CPC 11

JMI Proves Its Case!

6" Refractors

Smaller than the Shipping Box!



Generic Configurable 20" x 11-1/8" x 9-1/8" Inside Dimensions

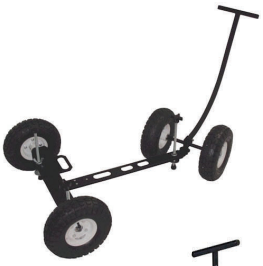
...and MUCH MORE!

Wheeley Bars — Dollies for Moving Telescopes and Mounts

Wheeley Bars were created to easily **move your tripod or pier mounted telescope** from garage to patio or driveway, or other flat surfaces. The sturdy base with **locking wheels** and **leveling bolts** allows you to easily **move, lock, level and use the complete telescope assembly**. And best of all, you don't have to disconnect and reconnect all the electrical and computer cabling.

Standard Wheeley Bars are designed to be used on **hard flat surfaces** only. With the **optional large-wheel upgrade**, great care in maneuvering and ideal conditions, they can be used on **grass, dirt and gravel surfaces**. Wheeley Bars are generally designed to be used with the tripod legs almost fully retracted to reduce the overall width.

Small to Large



Dobsonian

Tripod and Pier

Check out our website for much more information that will help you with your purchase.

Selecting the Right Wheeley Bars
What is Tip-to-Tip Distance?
Doorway Measurements
What Size Wheels Should I Purchase?
Purchasing Hints for Motorized Wheeley Bars

A Word of Warning:
The heavier the telescope mounted on the Wheeley Bars, the more careful one must be in moving the complete system by pulling or pushing below the center of gravity. **JMI is not responsible for incorrect loading or operation.**

Motorized

Astronomy magazine 2013 Star Products

MAX Guiding Computers for Over 100 Telescopes

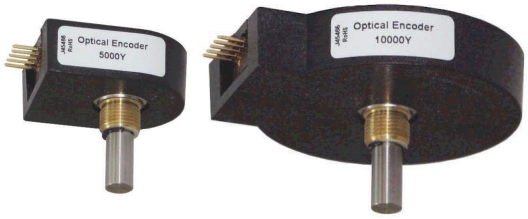
Our popular **Next Generation Computers**, or **MAX Computers**, allow you to easily **guide to**, or "**Push To**" hundreds, thousands or even **millions of objects** in the database without knowing where they are and without using a star chart. You don't even need to level or polar align your scope. You can spend more time observing and less time hunting for objects. These computers are sometimes called **digital setting circles** because the early versions only displayed right ascension and declination, thus replacing the telescopes mechanical setting circles. Most of our computers are not "Go-To" computers in that they do not move the telescope for you. See our **Software Guided Computer** for **GoTo** capability. Also, see our website for **comparison charts** and a **list of equipment we outfit** and a **Telescope Computer Tutorial**.

NGC-MAX

NGC-microMAX

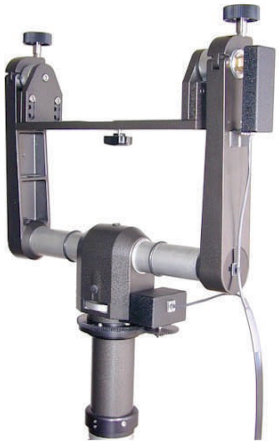
SGT-MAX

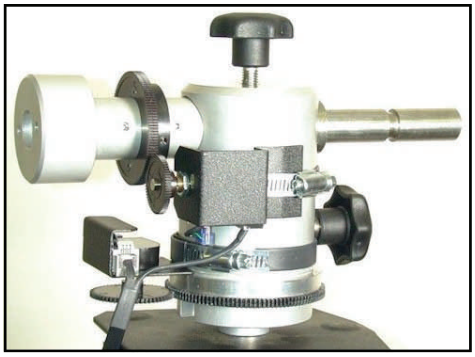
◄ **NGC-superMAX** (Argo Navis)

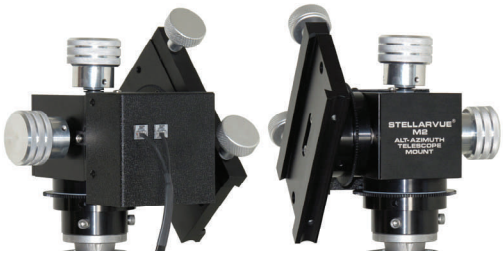


Digital Encoders ►
(small and large package)

We offer complete systems with mounting hardware for many popular telescopes. ▼

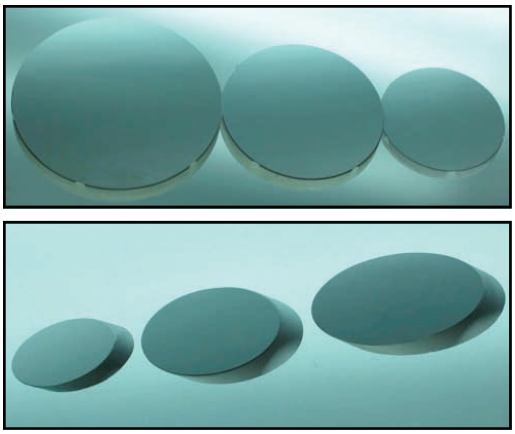




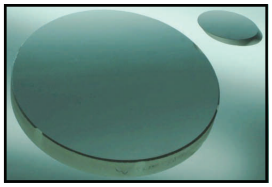


Mirrors from Guan Sheng Optical (GSO)

Primary and Secondary Mirror Sets for your **DIY Projects**.
8" to 16" primary parabolic mirrors with matching secondary.



Guan Sheng Optical (GSO) Manufacturer's Specs



Diffraction limited
BK7 glass
1/16 wave RMS minimum, typically better
Aluminum reflective coating
Protective coating (SiO2)
Reflectivity approximately 93%

See our website for complete specifications.

Light Shrouds for Meade LightBridge Telescopes

Light Shrouds for **10", 12" and 16"** LightBridge scopes. The shrouds are made of a **stretch-fit material** and include **Velcro tabs for a snug fit**.

Will they **fit your non-LightBridge scope?** The **sizes (length x diameter) are** 26" x 12", 32" x 14" and 38.5" x 19".

SGB-8 Telescope — 8" Second Generation Binocular Scope

Preliminary information on the new **Second Generation Reverse Binocular Telescope...**

- A pair of matching 8" f/5 Newtonian Optical Systems
- Improved Reverse Binocular design
- New Interocular Spacing system
- Folding Tripod Mount
- Easy separation of Scope from Mount

Prototype SGB-8

New Product
Coming Soon
Watch for Details

RB Telescopes — Reverse Binocular Newtonian Telescopes

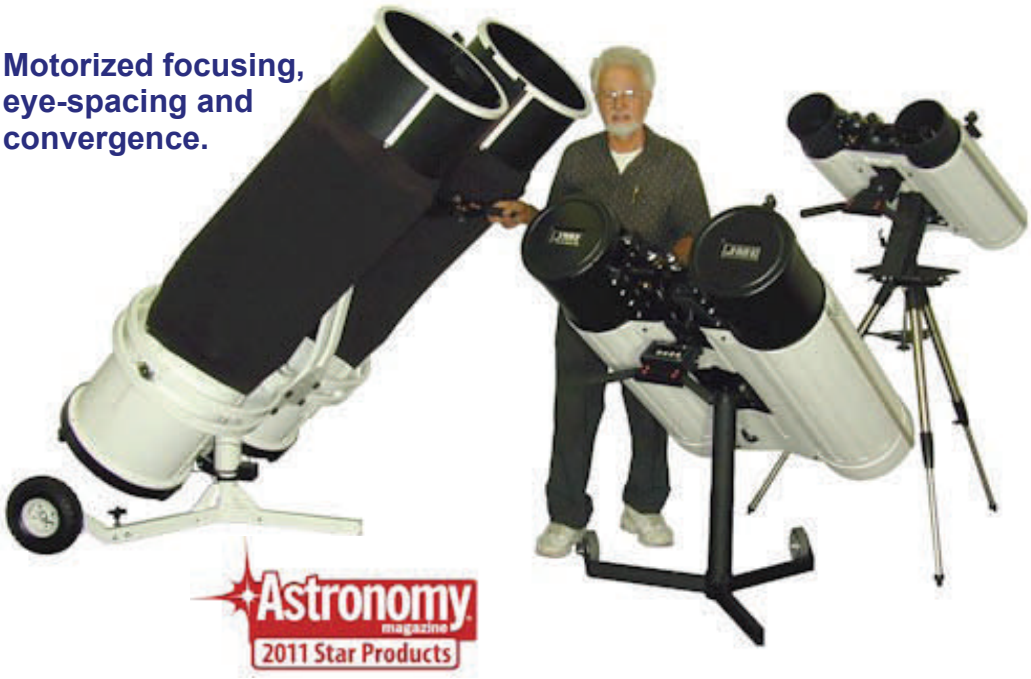
The RB **Reverse Binocular telescope** allows you to look down into the eyepieces, (either sitting or standing) to see what is in the sky behind you, instead of straining to look up as is the case with normal binoculars. They are built with **two aligned Newtonian optical tubes** on an alt-az mount creating a **very compact and comfortable viewing experience**. The available sizes are 6" (RB-66), 10" (RB-10), 14.5" (RB-14.5) and 16" (RB-16). (U.S. Patent No. Des. 499,436)

Binocular telescopes show their **superiority** in two major areas;
1) enhanced visual clarity due to improved contrast and resolution and
2) complete **elimination of eye fatigue**.

"According to research, there can be as much as a **40% improvement** in resolution of lower contrast visual material when viewing is binocular as compared to monocular." (*Observing Experiments in Vision* by Tom Mote in *Observatory Techniques*, Issue #10, Summer 1994)

Viewing with Solar Filters

Motorized focusing, eye-spacing and convergence.



Available Products

RB-66 6" f/5
SGB-8 8" f/5 **NEW**
RB-10 10" f/4.7
RB-14 14" f/4.5
RB-16 16" f/4.5

See our website for more information (JMITelescopes.com)

NTT Telescopes — Alt-Az Newtonians with Folded Optics

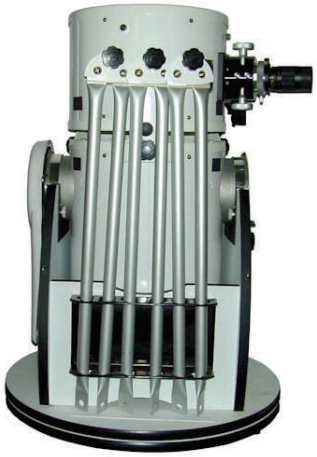
NTT-25

NTT-30

NTT-40

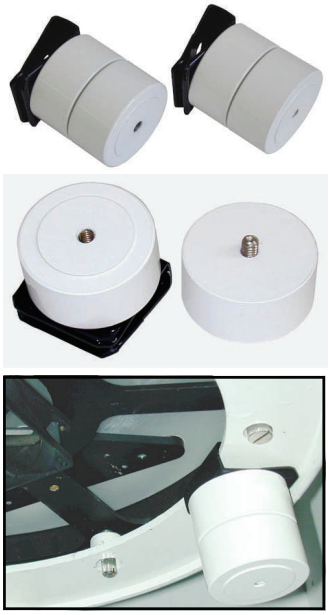
Mounting Brackets and Counterweights for Various Scopes

From **Piggy-Back Camera Mounts** to **Quick-Release Finder Brackets** and **Hand Control Holders** or **Counterweights**, we may just have what you are looking for!



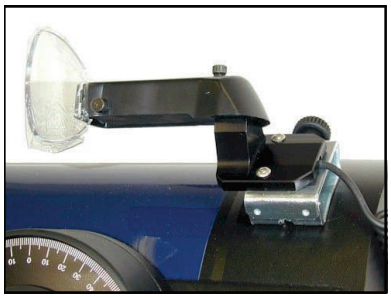
Transporter Kit for LightBridge

For Compact Storage and Transportation



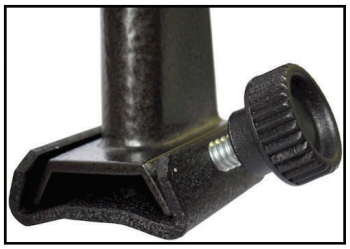
LightBridge and NexStar Counterweights

Celestron NexStar Hand Control Mounting Bracket



Quick-Release Finder Bracket

Meade 8 x 50 Finder Scope Mounting Bracket for the Meade LS / LT Scopes



Orion Finder Scope Mounting Bracket for the Meade LS / LT Scopes

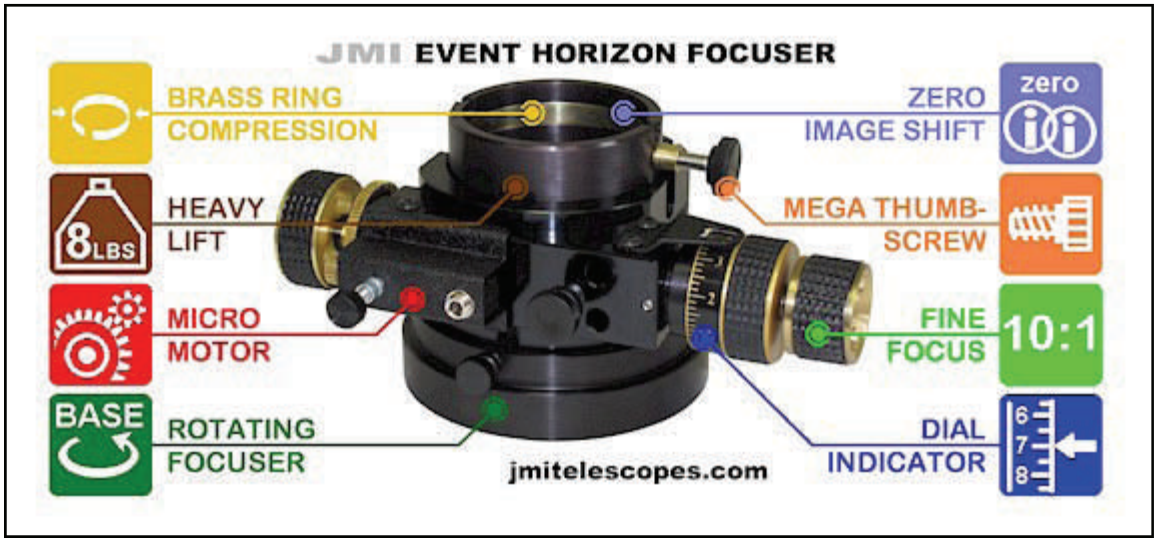
Piggy-Back Camera Mounts

Event Horizon Focusers for Newtonians and SCTs

EV-1nM (Newtonian Motorized)

Modular Design ● Low Profile ● Customizable ● Zero Image Shift ● Miniature High-Torque Motor ● Slender Light Hand Unit ● Quality Construction ● DRO, PC Focus Control and Smart Focus Options ● Lift up to 8 Pounds ● Brass Clamping Rings ● Easy Transition between Manual and Motorized ● Dual-Speed Drive

EV-2c (Cassegrain Manual)

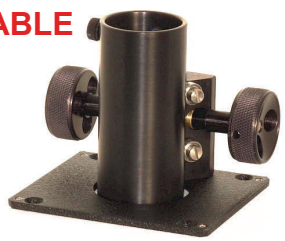


EV-3cM (Cassegrain Motorized)

EV-1n (Newtonian Manual)

ALSO AVAILABLE

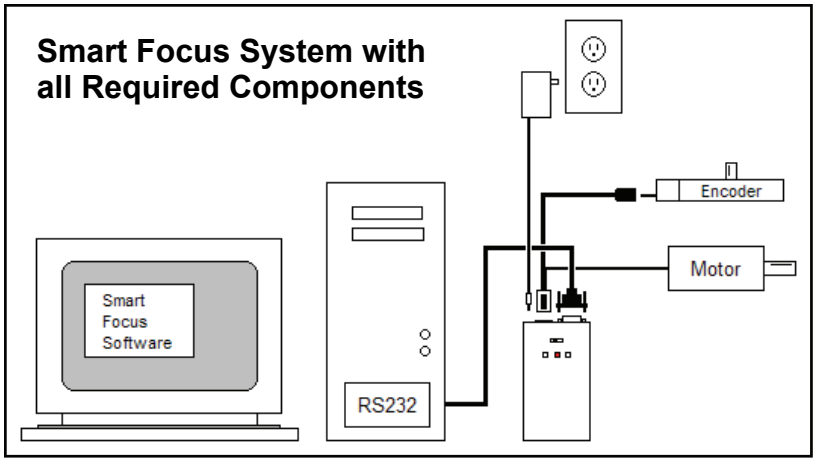
Low-Cost Reverse Crayford Focusers (RCF)



Focus Motor Control using a Personal Computer

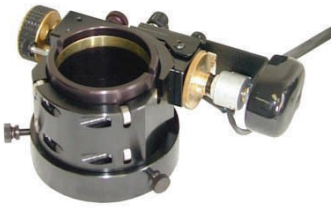
SMART FOCUS

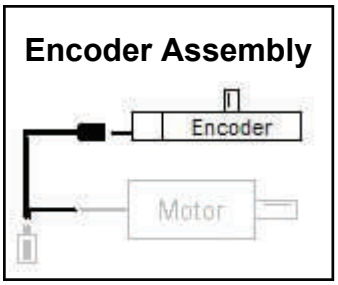
Remotely control a JMI focuser or MOTOFOCUS unit using a **PC with software** — either **popular CCD software** for automatic focusing or the included **basic focus control software**. Smart Focus requires a **DRO Encoder Assembly** for a motorized JMI Focuser or MOTOFOCUS unit (not included). Smart Focus includes a hand control unit, battery, A/C adapter, focuser/encoder cable, serial cable and software (downloadable from our website). The computer (PC) with Microsoft Windows™, encoder assembly and motorized focuser or MOTOFOCUS unit are not included as part of the Smart Focus product. They must be purchased separately.



ENCODER ASSEMBLY FOR SMART FOCUS

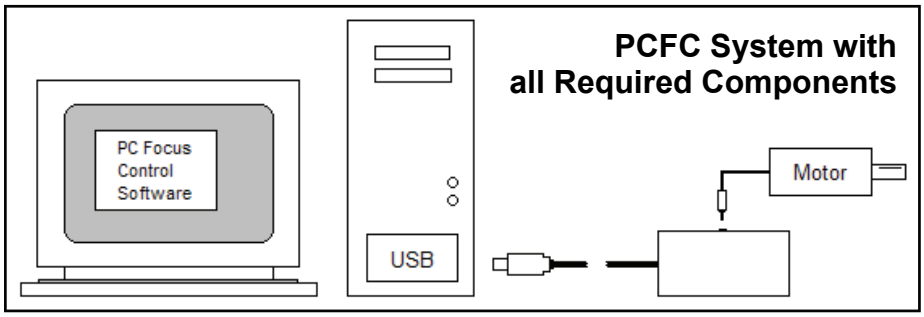
The **DRO Encoder Assembly** includes the digital encoder, connectors and mounting hardware. The **modular design** of the EV Focuser makes it **easy to add an Encoder Assembly**, and a motor (also required for Smart Focus), after the original purchase. Adding the Encoder Assembly to MOTOFOCUS has the following restrictions: 1) Usually not upgradable after purchase, 2) Requires special procedures or a slip clutch for proper use with Smart Focus and 3) Using Smart Focus with an SCT focus knob is not recommended due to mirror slop. (Call for details on your particular system.)

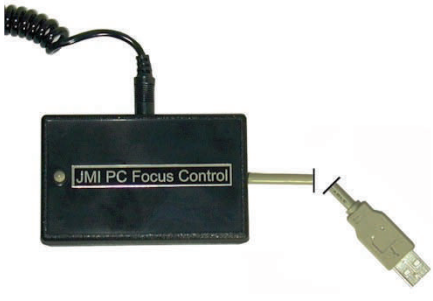




PC FOCUS CONTROL (PCFC)

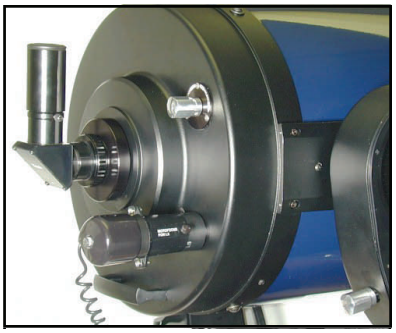
PCFC replaces a regular hand unit with a mouse and software to **control a DC focuser motor from your PC** through a USB port. It gives **greater control of speed and duration of movement** than a hand unit and can control a JMI Focuser, MOTOFOCUS or other DC motor. No external power or batteries are required. There is no encoder feedback or positional display with PCFC. If you desire computerized focus control with encoder feedback, see Smart Focus above.

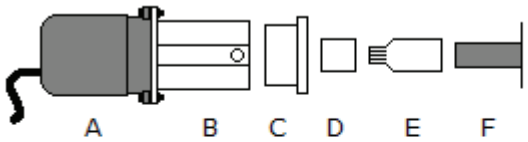




MOTOFOCUS Focus Motors for over 200 Telescopes

MOTOFOCUS put JMI on the map. What is MOTOFOCUS? It is a battery operated hand control with an electric focus motor that attaches to the shaft of a focuser knob (or the knob itself) for precise, vibration-free focusing without the need to touch the telescope. It is great for visual and photographic use and features variable speed for coarse and fine adjustments. Precise positioning is accomplished through linear voltage control (LVC).





A = Motor
B = Sleeve (attaches to Motor)
C = Collar (attaches to Telescope)
D = Coupler (attaches to Motor shaft)
E = Knob (attaches to Telescope Focusing Knob)
F = Telescope Focusing Knob (part of the Telescope)

LightBridge

▲
Many MOTOFOCUS Units Include an Extremely Compact Miniature Motor.
▼

▲
◄ Original Push-On Style MOTOFOCUS

Rack-and-Pinion Style MOTOFOCUS
▼

William Optics

Digital Display Gauge

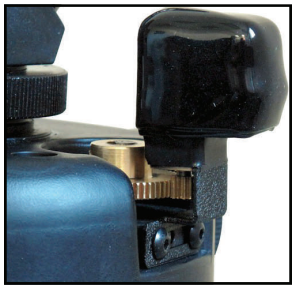
Astro-Physics 2.7" & 4" Focusers

Over 33 Years of MOTOFOCUS
"Stopping the Wiggles" Since 1983

Celestron Onyx

Sky-Watcher Pro Series 80ED

iOptron MC 90



Manual Focusing Aids for Precision Focusing

MicroFocus is a push-on **two-speed manual focus** mechanism that attaches to the shaft of an SCT focuser (or the knob itself) for precise focusing. It includes separate knobs for **coarse and fine adjustments** with a **numeric dial indicator** for improved accuracy and repeatability. Mounting is easy, with no need to remove the original focusing mechanism. ►

◄ The **Digital Focus Counter** (**DFC**) is a low-cost mechanical alternative to the electronic Digital Readout (DRO). The **three-digit counter** display allows 10 turns of the shaft before returning to zero for **focusing repeatability** on SCT focusing knobs. DFC is also available as a piggyback unit integrated into some MOTOFOCUS units (see our website).

You Know You Are a Deep-Sky Observer when...

You view a major earthquake as an opportunity for a close-in dark-sky star party.

Your choice of a new vehicle is determined by the size of your scope.

You prep your eyes by applying pupil dilating drops until they open to 10 mm.

You'd rather observe than go on a hot date.

For some reason you're always depressed when that time of the month (full moon) occurs.

The dome light of your car is painted red.

You remove the LED on your drive control panel because it ruins your dark adaptation.

Courtesy of Tom Johnston
JMI's Production Manager

More Information Available on JMI's Website.....

Our **Website** includes **More Products** and **Additional Information** such as **Product Specifications**, **Purchasing Tips**, **Definitions**, etc. Here is an example:

What is an Ampere-Hour? The Ampere (amp) is a unit of measure of electrical current (or flow). Batteries are often measured in ampere-hours to show total electrical current capacity. For instance, a fully charged 7 amp-hr battery will supply 1 amp of current at a particular voltage for approximately 7 hours before it is discharged. If, instead, the battery is drained continuously at 7 amps, it will discharge in approximately 1 hour. The formula is amperage x hours = total amp-hrs. This formula is only approximate because there are so many factors that affect a battery.