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Telephone: 616-897-9351 · FAX: (616) 897-8229 · Toll Free: 888-488-0381
sales@optecinc.com · http://www.optecinc.com
Control Cables for TCF-S and IFW Systems

TELESCOPE FOCUSING SYSTEMS

FocusLynx Telescope Focus Controller Systems
NEW! See separate FocusLynx Kit Pricing for best prices for multiple focuser configurations and options.
2-inch Crayford Style Focusers
3-inch Crayford Style Focusers
Low-Profile Lead-Screw Focusers
FastFOCUS Secondary Mirror Focusing Systems for Catadioptrics
Temperature Sensor and Remote Focuser Keypad Options
TCF Focuser Conversions and Upgrades
High-Torque Motors for Non-Optec Focusers

PYXIS CAMERA FIELD ROTATORS

Pyxis LE Camera Field Rotator
Pyxis 2-inch Camera Field Rotator – NEW! 3rd Generation with Ethernet
Pyxis 3-inch Camera Field Rotators
Pyxis LE Accessories
Pyxis 2” Camera Side Adapters with OPTEC-2300 dovetail

LIBRA DOVETAIL MOUNTING SYSTEM

INTELLIGENT FILTER WHEEL SYSTEMS

IFW Automated Filter Selector Systems
6-inch Filter Wheels for IFW 2” Filter Selector
9-inch Filter Wheels for IFW 3” Filter Selector
Tab & Spacer Kits for IFW Filter Wheels
MAXfilter 2” 3-Position Filter Slider
Optical Bench Mounts for IFW and IFW-3
Camera Side Mounting Rings for IFW and MAXfilter
IFW 3” Telescope Side Front Cover Plates
IFW 3” Camera Side Rear Cover Plates

ELECTRO-LUMINESCENT FLAT FIELD DEVICES

Field Fielding CCD Calibration Panels from Alnitak AstroSystems
Alnitak Bahtinov Mask and Remote Dust Cover

SOFTWARE TOOLS

OFF-AXIS FOCUS DEVICE

REPAIR SERVICES AND REPLACEMENT PARTS
SINGLE-CHANNEL PHOTOMETERS

Includes: 1¾” telescope coupler, 1 mm diameter photodiode with 1 mm field aperture, 9V rechargeable battery, 12VDC power supply/charger for 100-240 VAC input, and trial SSPDataq3 software. Order 2-position filter slider, filters, and serial cable separately below. See Photometric Filters for SSP section below for filter options.  
$1,295.00

Includes: 1¾” telescope coupler, 1 mm diameter photodiode with 1 mm field aperture, stepper motor, 12VDC power supply for 100-240 VAC input, and trial SSPDataq3 software. Order 6-position filter slider, filters, and serial cable separately below. See Photometric Filters for SSP section below for filter options.  
$1,495.00

17007  Model SSP-5 PMT Stellar Photometer, Generation 2.  
Includes: 1¾” telescope coupler, 1 mm field aperture, 12VDC power supply for 100 – 240 VAC input, and trial SSPDataq3 software. Order PMT, 2-position filter sliders, filters, serial communications cable, and full SSPDataq3 Reduction Software separately below.  
$2,095.00

17009  Model SSP-5A Automated PMT Stellar Photometer, Generation 2.  
Includes: 1¾” telescope coupler, 1 mm field aperture, filter slider stepper motor, 12VDC power supply for 100 – 240 VAC input, and trial SSPDataq3 software. Order PMT, 6-position filter slider, filters, serial communications cable, and full SSPDataq3 Reduction Software separately below.  
$2,495.00

Detector Aperture Options

17011  0.5 mm diameter field aperture for SSP-3/3A or SSP-5/5A.  
$75.00

17012  0.75 mm diameter field aperture for SSP-3/3A or SSP-5/5A.  
$75.00

17013  2 mm diameter field aperture for SSP-3/3A (larger detector) or SSP-5/5A.  
$75.00

Photomultiplier Tube Options (SSP-5/SSP-5A photometers)

17015  Hamamatsu R6350 Sb-Cs PMT with S-5 response (185 to 650 nm).  
$595.00

17017  Hamamatsu R6358 Multialkali PMT with extended red response (185 to 830 nm).  
$895.00

Data Acquisition Software

17030  SSPDataq3 photometer control, data acquisition and reduction package – UBVRI Photometry.  
This software program is an expansion of the trial SSPDataq3 provided with the SSP photometers or from our software download site. Program supports UBVRI data acquisition and complete UBVRI data reduction. The registered setup program is e-mailed to the user after purchase. We require a valid e-mail address for delivery. A CD with the program can be provided if requested.  
$295.00

17040  SSP4Dataq2 photometer control, data acquisition and reduction package – J-H Photometry.  
This software program is an expansion of the trial SSP4Dataq2 provided with the SSP-4 photometers or from our software download site. Program supports UBVRI data acquisition and complete data reduction. The registered setup program is e-mailed to the user after purchase. We require a valid e-mail address for delivery. A CD with the program can be provided if requested. NOTE: SSP-4 NIR photometer is no longer available for purchase.  
$295.00

Filter Sliders

17050  2-position filter slider for manual photometers.  
$75.00

17052  6-position filter slider for automatic photometers.  
$225.00

Null Serial Cables for SSP Photometers and Perseus

RS-232 null modem cable for connection between PC DB-9 serial port and DB-9 port on SSP photometers.

17154  6-ft. Serial cable for SSP photometers, DB-9 (female /female)  
$25.00

$35.00

$45.00

$55.00
**Battery and Power Supplies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Item Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17060</td>
<td>9 volt Nickel Hydride battery replacement. Replacement battery for SSP-3 photometer.</td>
<td>$20.00</td>
</tr>
<tr>
<td>17061</td>
<td>Paramount ME/MX power conversion cable. Converts Paramout locking 2.1x5.5mm power plug to Optec 2.5x5.5mm power plug. Std. length is 20-inches.</td>
<td>$20.00</td>
</tr>
<tr>
<td>17063</td>
<td>Power plug 2.5x5.5mm with 6-ft. leads. Standard power plug for most Optec devices. Ideal for Powerpole and Rigrunner type projects. Wire plug with the center pin positive for 12VDC nominal voltages. Battery voltages of 13.7VDC will work without problems.</td>
<td>$15.00</td>
</tr>
<tr>
<td>17064</td>
<td>12 VDC Universal Power Supply, input range 100-240VAC 50-60Hz, 1.2 Amp output. For use with most Optec devices. Includes 2.5 x 5.5 power plug. Specify U.S. or European wall plug.</td>
<td>$25.00</td>
</tr>
<tr>
<td>17065</td>
<td>5 VDC Power Supply, input range 100-240VAC 50-60Hz, 1.0 Amp output. For use with Pyxis 3&quot;, 15VDC output includes 2.2 x 5.5mm power plug. Specify U.S. or European wall plug.</td>
<td>$35.00</td>
</tr>
<tr>
<td>17066</td>
<td>15 VDC Power Supply, 100-240VAC 50-60Hz, 1.5 Amp output. For use with Pyxis 3&quot;, 15VDC output includes 2.5 x 5.5mm right angle power plug. Specify U.S. or European wall plug.</td>
<td>$35.00</td>
</tr>
<tr>
<td>17067</td>
<td>6-foot power supply extender cable. Specify 2.5 x 5.5mm female socket to male plug or 2.2 x 5.5mm for SSP-4.</td>
<td>$20.00</td>
</tr>
<tr>
<td>17068</td>
<td>12-foot Cigarette light plug to 2.5x5.5mm power plug for Optec devices. Rated for 3A with internal fuse protection, LED power indicator, right-angle plug. Specify straight or coiled</td>
<td>$30.00</td>
</tr>
<tr>
<td>17069</td>
<td>Y-splitter Cable for 12 VDC output, 6-ft. length. Includes female 2.5 x 5.5mm socket and two male 2.5 x 5.5mm power plugs.</td>
<td>$25.00</td>
</tr>
</tbody>
</table>

**Photometric Filters for SSP Photometers.**

*While Supplies Last…Designed for mounting in 2 or 6 position filter sliders (stk. #17050, #170523)*

<table>
<thead>
<tr>
<th>Code</th>
<th>Filter Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17027</td>
<td>Sloan g` filter for SSP-3 or SSP-5 photometer.</td>
<td>$125.00</td>
</tr>
<tr>
<td>17028</td>
<td>Sloan r` filter for SSP-3 or SSP-5 photometer.</td>
<td>$125.00</td>
</tr>
<tr>
<td>17029</td>
<td>Sloan i` filter for SSP-3 or SSP-5 photometer with R6358 PMT.</td>
<td>$125.00</td>
</tr>
<tr>
<td>17031</td>
<td>Johnson U (Ultra-Violet) filter for SSP-3 or SSP-5 with R6358 PMT</td>
<td>$125.00</td>
</tr>
<tr>
<td>17032</td>
<td>Johnson B (Blue) filter for SSP-3 or SSP-5 with R6358 or R6350 PMT</td>
<td>$150.00</td>
</tr>
<tr>
<td>17033</td>
<td>Johnson V (Visual) filter for SSP-3 or SSP-5 with R6358 PMT</td>
<td>$125.00</td>
</tr>
<tr>
<td>17034</td>
<td>Johnson R (Red) filter for SSP-3 or SSP-5 with R6358 PMT</td>
<td>$125.00</td>
</tr>
<tr>
<td>17035</td>
<td>Johnson I (Infrared) filter for SSP-3</td>
<td>$125.00</td>
</tr>
<tr>
<td>17036</td>
<td>Clear filter window for any SSP photometer, 7mm thick, 12.5mm diameter.</td>
<td>$50.00</td>
</tr>
<tr>
<td>17137</td>
<td>J-band filter, 1.25 µm CW, .28µm BW for SSP-4 infrared photometer.</td>
<td>$375.00</td>
</tr>
<tr>
<td>17138</td>
<td>H-band filter, 1.65 µm CW, .30µm BW for SSP-4 infrared photometer.</td>
<td>$375.00</td>
</tr>
<tr>
<td>17041</td>
<td>Johnson U (Ultra-violet) filter for SSP-5 with R6350 PMT.</td>
<td>$125.00</td>
</tr>
<tr>
<td>17043</td>
<td>Johnson V (Visual) filter for SSP-5 with R6350 PMT.</td>
<td>$125.00</td>
</tr>
<tr>
<td>17045</td>
<td>Strömgren u (ultra-violet) filter for SSP-5 with R6358 or R6350 PMT (Limited Stock)</td>
<td>$125.00</td>
</tr>
<tr>
<td>17046</td>
<td>Strömgren v (violet) filter for SSP-5 with R6358 or R6350 PMT (Limited Stock)</td>
<td>$125.00</td>
</tr>
<tr>
<td>17047</td>
<td>Strömgren b (blue) filter for SSP-5 with R6358 or R6350 PMT (Limited Stock)</td>
<td>$125.00</td>
</tr>
<tr>
<td>17048</td>
<td>Strömgren y (yellow) filter for SSP-5 with R6358 or R6350 PMT (Limited Stock)</td>
<td>$125.00</td>
</tr>
</tbody>
</table>
# TELECOMPRESSOR LENS SYSTEMS

## NextGEN 2-inch Series Focal Reducer/Telecompressors

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17403</td>
<td>NextGEN MAXfield NGM 0.33X Telecompressor Lens</td>
<td>$325.00</td>
</tr>
<tr>
<td></td>
<td>Second generation MAXfield telecompressor design with 0.33X reduction. Complete redesign of Optec’s premier f/3.3 reducer provides better color correction and a longer back-focus distance. Excellent choice for smaller sensors up to 11mm diagonal. (NOTE: Order NextGEN CCD camera mounting plate separately below.) [2-inch male barrel mount // OPTEC-2100 male dovetail]</td>
<td></td>
</tr>
<tr>
<td>17409</td>
<td>NextGEN Ultra WideField 0.70X Telecompressor Lens</td>
<td>$325.00</td>
</tr>
<tr>
<td></td>
<td>Parfocal 0.7X reduction telecompressor specifically designed to work with Apochromatic designs such as the Takahashi FS-series, Astrophysics’, and other high-end refractors. Four-element optical system delivers a flat field up to 18mm diagonal for CCD detectors. (NOTE: Order NextGEN CCD camera mounting plate separately above.) [2-inch male barrel mount // OPTEC-2100 male dovetail]</td>
<td></td>
</tr>
</tbody>
</table>

## NextGEN 2” Camera Mounting Plates

These mounting plates fit the male OPTEC-2100 dovetail (2.1” diameter) on the camera side of the NGM, NGW, and NGUW NextGEN telecompressor lens systems. The tube length (X below in inches) for each mount is cut to match the proper back-focus for a particular camera/filter wheel combination. For the most current compatibility list, consult the Optec website.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17392-X</td>
<td>T-thread mounting plate. 2” NextGEN Telecompressor to T-thread camera mounting plate. Select best camera mount from Optec website. [OPTEC-2100 female // T-thread 42x 0.75mm male thread]</td>
<td>$60.00</td>
</tr>
<tr>
<td>17395-X</td>
<td>Pentax thread mounting plate. 2” NextGEN Telecompressor to Pentax-thread camera mounting plate. Select best camera mount from Optec website. [OPTEC-2100 female // Pentax 42x 1mm male thread]</td>
<td>$60.00</td>
</tr>
<tr>
<td>17396-X</td>
<td>SCT-thread mounting plate. 2” NextGEN Telecompressor to SCT-thread camera mounting plate. Select best camera mount from Optec website. [OPTEC-2100 female // SCT 2-inch 24tpi male thread]</td>
<td>$60.00</td>
</tr>
<tr>
<td>17397</td>
<td>QSI 500wsg mount. Replacement 4-bolt mount for QSI 500wsg faceplate to allow close mounting of NextGEN series telecompressor. Maintains 50mm back-spacing required for NextGen telecompressor.</td>
<td>$90.00</td>
</tr>
<tr>
<td>17398-X</td>
<td>SBIG STL / QSI 2.156”x24tpi threaded mounting plate. New camera mounting plate for the 2.156”x24tpi thread mount allowing more light through than traditional SCT mounts. Used in some SBIG and QSI cameras. [OPTEC-2100 female // SBIG 2.156 x 24tpi male thread]</td>
<td>$60.00</td>
</tr>
<tr>
<td>17399-X</td>
<td>C-thread mounting plate. 2” NextGEN Telecompressor to C-thread camera mounting plate. Select best camera mount from Optec website. [OPTEC-2100 female // C-thread 1-inch x 32tpi male thread]</td>
<td>$60.00</td>
</tr>
</tbody>
</table>

## Next Generation Corrector 2-inch Series

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19472</td>
<td>NGC214 Reducer/Corrector for Classic Celestron C-14 SCT</td>
<td>$295.00</td>
</tr>
<tr>
<td></td>
<td>New corrector and reducer for the classic C-14. 2-inch optics fit into any 2-inch focuser. Optical back-focus distance of 75mm on-axis should be maintained for best performance. Camera side mount is 2.156” STL thread. Camera adapter sold separately. [2-inch male barrel mount // 2.156”x24tpi STL male thread]</td>
<td></td>
</tr>
</tbody>
</table>

## 2-inch Receiver for 2” Telecompressors

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17401</td>
<td>2” SCT Receiver to accept NextGEN Telecompressors. 2” 24tpi female threads fit any standard SCT male threads and present a 2” I.D. port for accepting NGM, NGW, NGUW or any 2” eyepiece or push-fit accessory. [2” SCT thread female – 2-inch ID female]</td>
<td>$60.00</td>
</tr>
</tbody>
</table>
Lepus Telecompressor Series

19405 Lepus-QSI/STL 0.62X Telecompressor Lens
4-element telecompressor for use with new well-corrected SCT designs including the Meade ACF optical tube assemblies. With a longer back-focus over 100mm, the Lepus 0.62X is capable of fully illuminating a 22mm diagonal CCD. Can be used with any filter wheel/camera combinations with room to spare and can also be used with DSLR cameras.

[2-inch male barrel mount // QSI/STL 2.156”x 24tpi male thread]

$225.00

19407 Lepus 0.62X Telecompressor Lens

$199.00

19409 Lepus HD Telecompressor - C8 EdgeHD edition

Lepus 0.62X Telecompressor lens system mounted in 2”x24tpi threaded mount for direct attachment to Celestron 8” EdgeHD SCT. Close coupled mount provides optimal image quality by maintaining a minimum distance between EdgeHD corrector optics and Lepus telecompressor lens grouping. The back-focus distance is reduced to 100mm on-axis and maintained by a camera specific mount (order Lepus camera mount separately below). Contact Optec for cameras not listed.

[Celestron 2”x24tpi female thread mount // OPTEC-2100 male dovetail]

$275.00

19410 Lepus HD Telecompressor – C9.25 EdgeHD edition

$275.00

19411 Lepus HD Telecompressor – C11 EdgeHD edition

$275.00

19414 Lepus HD Telecompressor – C14 EdgeHD edition

Lepus 0.62X Telecompressor lens system mounted in 3-1/4”x24tpi threaded mount for direct attachment to Celestron 1400 EdgeHD SCT. Two-piece mount includes lens holder and orange retaining ring. Close coupled mount provides optimal image quality by maintaining a minimum distance between EdgeHD corrector optics and Lepus telecompressor lens grouping. The back-focus distance is reduced to 100mm on-axis and maintained by a camera specific mount (order Lepus camera mount separately below). Contact Optec for cameras not listed.

[Celestron 3-1/4”x24tpi female thread mount // OPTEC-2100 male dovetail]

$275.00

19415 Conversion of existing Lepus telecompressor to Lepus HD series

$95.00

Lepus Series Camera Mounting Plates

These mounting plates fit onto the male Optec-2100 dovetail (2.1” diameter) on the camera side of the Lepus telecompressor lens system. The tube length of each mount is cut to match the proper back-focus for a particular camera/filter wheel combination. The value of X below is the length of the tube in **millimeters**.

19389-X M54 x 0.75mm mounting plate for Lepus.

$60.00

19392-X T-thread mounting plate.

$60.00

2” Next GEN Telecompressor to T-thread camera mounting plate. Select best camera mount from Optec website. Add $35 for Canon, Nikon, or Sony bayonet mount (T-ring).

[OPTEC-2100 female // T-thread 42x 0.75mm male thread]

19394-X M48 x 0.75mm mounting plate.

$60.00

2” Next GEN Telecompressor to SCT-thread camera mounting plate. Select best camera mount from Optec website.

[OPTEC-2100 female // M48 x 0.75mm filter thread]

19396-X SCT-thread mounting plate.

$60.00

2” Next GEN Telecompressor to SCT-thread camera mounting plate. Select best camera mount from Optec website.

[OPTEC-2100 female // SCT 2-inch 24tpi male thread]

19398-X SBIG STL/QSI 2.156 x 24tpi threaded mounting plate.

$60.00

2” Next GEN Telecompressor to SCT-thread camera mounting plate. Select best camera mount from Optec website.

[OPTEC-2100 female // SBIG 2.156 X 24tpi male thread]

19399-X C-thread mounting plate.

$60.00

2” Next GEN Telecompressor to C-thread camera mounting plate. Select best camera mount from Optec website.

[OPTEC-2100 female // C-thread 1-inch 32tpi male thread]

19492-X STL Threaded mounting plate for T-thread cameras.

$65.00

Allows direct attachment of TCF-Leo directly behind Lepus HD telecompressors. [2.156”x24tpi female thread // M42x1mm male T-thread]

19494 Retainer with OPTEC-3600 mounting dovetail

65.00

199 Smith Street  ·  Lowell, Michigan 49331  ·  U.S.A.
Ph: 616-897-9351  ·  FAX: (616) 897-8229  ·  Toll Free: 888-488-0381
sales@optecinc.com  ·  www.optecinc.com

All prices subject to change without notice.
NEW!  VLC - Variable Length Camera Adapters for NextGEN, NGC, and Lepus Telecompressors

19390  Variable T-thread Adapter for NextGEN and Lepus telecompressors.  $95.00
New variable length camera adapter fits OPTEC-2100 2.1" dovetail of the NextGEN and Lepus telecompressor and presents a male T-thread for camera attachment.  Back-focus distance is variable from 25mm to 40mm with precision engraved scale and lock nut.
[OPTEC-2100 female // T-thread 42x 0.75mm male thread]

19393  Variable STL-thread Adapter for NextGEN and Lepus telecompressors.  $95.00
New variable length camera adapter fits OPTEC-2100 2.1" dovetail of the NextGEN and Lepus telecompressor and presents a male STL-thread for camera attachment.  Back-focus distance is variable from 25mm to 40mm with precision engraved scale and lock nut.
[OPTEC-2100 female // STL-thread 2.156"x24tpi male thread]

19395  Variable T-thread Adapter for NGC and Lepus-STL telecompressors.  $95.00
New variable length camera adapter fits male STL thread of the NGC and Lepus-STL telecompressor and presents a male T-thread for camera attachment.  Back-focus distance is variable from 25mm to 40mm with precision engraved scale and lock nut.
[STL 2.156"x24tpi female // T-thread 42x 0.75mm male thread]

19397  Variable STL-thread Adapter for NGC and Lepus-STL telecompressors.  $95.00
New variable length camera adapter fits male STL thread of the NGC and Lepus-STL telecompressor and presents a male STL-thread for camera attachment.  Back-focus distance is variable from 25mm to 40mm with precision engraved scale and lock nut.
[STL 2.156"x24tpi female // STL 2.156"x24tpi male thread]

Next Generation Corrector 3-inch Series

19480  NGC316 Corrector/Reducer 0.75X Lens – GENERATION 2  $795.00
Second Generation design 3" diameter telecompressor / corrector specifically designed for the Meade 16-inch Classic Schmidt-Cassegrain Telescope.  The NGC 316 Generation 2 corrects edge of field stars to 35mm diagonal while flattening and reducing the focal ratio to f/7.5.  Second Generation design eliminates ghost image present in original design with certain cameras. Ideal for use with large format CCD cameras.  Includes one NGC camera mounting plate (specify below).  Requires a 3" receiver or true 3" focuser such as the TCF-3i (stk# 17677) or TCF-T3i (stk# 17676).
[3-inch male barrel mount // OPTEC-3100 male dovetail]

19481  NGC316 Corrector/Reducer upgrade to GENERATION 2  $300.00
Upgrade from first generation NGC316 lens set to Generation 2 lens set.  Requires return and re-use of elements A and B with new elements C and D along with new brass spacer set.  Contact Optec prior to return of original telecompressor.

Next Generation Corrector 3-inch Series Camera Mounting Plates

These mounting plates fit onto the male OPTEC-3100 dovetail (3.1" diameter) on the camera side of the NGC 316 telecompressor lens system.  The tube length (X below in inches) for each mount is cut to match the proper back-focus for a particular camera/filter wheel combination.  For the most current compatibility list, consult the Optec web.

17482-X  T-thread mounting plate.  $95.00
3" NextGEN Telecompressor to T-thread camera mounting plate.  Select best camera mount from Optec website.
[OPTEC-3100 female // T-thread 42x 0.75mm male thread]

17486-X  SCT-thread mounting plate.  $95.00
3" NextGEN Telecompressor to SCT-thread camera mounting plate.  Select best camera mount from Optec website.
[OPTEC-3100 female // SCT 2-inch 24tpi male thread]

17487-X  Digital SLR Bayonet mounting plate.  $125.00
3" NextGEN Telecompressor to T-thread camera mounting plate with DSLR bayonet.
[OPTEC-3100 female // T-threaded bayonet mount]

17488-X  SBIG STL / QSI 2.156" x 24tpi camera mounting plate.  $95.00
3" NextGEN Telecompressor to SBIG STL camera mounting plate.
[OPTEC-3100 female // SBIG STL 4-bolt mount]

17489-X  3.000-24tpi threaded mounting plate.  $95.00
3" NextGEN Telecompressor to 3x24tpi-threaded camera mounting plate.  Select best camera mount from Optec website.
[OPTEC-3100 female // 3x24tpi thread mount]

3-inch Receiver for 3" Telecompressors

17481  3" Receiver Tube to accept NGC 316 f/7.5 Reducer / Corrector.  $95.00
Special 3" I.D. receiver tube to accept NGC316 or any 3" diameter push-fit accessory.  Designed to attach to Optec-3600 male dovetail mount.  Requires 3" telescope mount with Optec-3600 male dovetail.
[OPTEC-3600 female // 3-inch female barrel mount]
TELESCOPE ADAPTERS

OPTEC-2400 Dovetail Mounts

Telescope Adapter to OPTEC-2400 Male

These telescope mounts fit various scopes and present the Optec-2400 Dovetail Mount (2.4” diameter) for attaching the original 2-inch IFW Filter Selector or TCF-S Focuser.

17416 Universal OPTEC-2400 mount. $65.00
17417 PlaneWave CDK 12.5” mount to OPTEC-2400 dovetail adapter. $95.00
17418 PlaneWave CDK 14/17/20/24” mount to OPTEC-2400 dovetail adapter. $95.00
17419 Female AP2.7 thread to OPTEC-2400 dovetail adapter. $75.00

Fits male Astro-Physics 2.7” thread – see AP 2.7 x 24tpi Threaded Adapters and Extensions below.

17451 Takahashi 63mm Sky 90 Mount to OPTEC-2400 dovetail adapter. $85.00

This mount fits the Takahashi Sky 90 telescope drawtube with TKP35001 coupling removed.

17651 Takahashi 72mm Mount to OPTEC-2400. $85.00

This mount fits the Takahashi M72x1mm Male thread on certain Mewlon telescopes – see website for details.

17652 TeleVue 3” male threaded mount for NP101 to OPTEC-2400 dovetail adapter. $95.00
17653 Takahashi 72mm Mount to OPTEC-2400 dovetail adapter. $95.00

This mount fits the Takahashi M72x1mm Female thread on many Takahashi telescopes – see website for details.

17454 Meade/Celestron Mount for 2” Rear Cell Thread, Meade/Celestron 8”, Celestron 9.25” telescopes $65.00
17455 Meade Telescope Mount for 3” Rear Cell Thread, Meade 10”, 12” and 14” telescopes. $75.00
17456 Meade Telescope Mount for 4” Rear Cell Thread, Meade 16” telescopes. $95.00
17457 Celestron Telescope Mount for 3” Rear Cell Thread, Celestron C-11/C-14 telescopes. $75.00
17458 AstroPhysics 2.7” male threaded mount to OPTEC-2400 dovetail. $85.00
17459 2” Barrel Mount (male) to OPTEC-2400 dovetail. $75.00
17653 ½” Extender for OPTEC-2400 dovetail mounts, female to male. $60.00
17655 1” Extender for OPTEC-2400 dovetail mounts, female to male. $65.00

17656 Takahashi FS-78 mount, fits the 2.2-inch thread directly to OPTEC-2400 dovetail adapter. $65.00
17962 OPTEC-2400 dovetail to Apogee 2.5” X 20tpi threaded mount. $75.00

19650 T-thread receiver to OPTEC-2400 mount. $45.00

This adapter features a female T-thread (M42x0.75mm) for inserting a male T-thread lens in front of the IFW.

19652 C-thread receiver to OPTEC-2400 mount. $45.00

This adapter features a female C-thread for inserting a male C-mount lens in front of the IFW.

19658 M82 x 1mm to OPTEC-2400 mount. $75.00
19659 SkyWatcher M74 x 1mm thread to OPTEC-2400 mount. $75.00
19661 Vixen VMc260 to OPTEC-2400 mount. $65.00
19662 Televue NP101is to OPTEC-2400 mount. $75.00
19663 M90 x 1mm to OPTEC-2400 mount for AT6RC and AT8RC. $75.00
19665 M117 x 1mm to OPTEC-2400 mount for AT10RC. $95.00
19666 Stellarvue thread to OPTEC-2400 dovetail mount. $75.00
19667 Intes MCT-180/MK-69 to OPTEC-2400 mount. $65.00
19668 William Optics W098FLT to OPTEC-2400 mount. $65.00

OPTEC-2400 Female Dovetail Receiver Adapters

These female adapters receive the OPTEC-2400 male dovetail mounts for special situations and conversions.

17658 AstroPhysics 2.7” female threaded mount to OPTEC-2400 dovetail. $75.00
17659 Standard mountable receiver, OPTEC-2400 female receiver. $75.00
**OPTEC-3600 Dovetail Mounts**

**Telescope Adapter to OPTEC-3600 Male**

These telescope mounts fit various scopes for any device with an OPTEC-3600 dovetail receiver.

- **17798** OPTEC-3600 dovetail extension, 12.5mm length. $75.00
- **17799** OPTEC-3600 dovetail extension, 25mm length. $75.00
- **17800** Standard mount blank, OPTEC-3600 male dovetail. Plate can be drilled and machined. $95.00
- **17801** Meade16” LX200 Telescope Mount for 4” Rear Cell Thread to OPTEC-3600 dovetail adapter. $95.00
- **17802** Meade Telescope Mount for 3” Rear Cell Thread to OPTEC-3600 dovetail adapter. $95.00
- **17803** Celestron Telescope Mount for 3” Rear Cell Thread to OPTEC-3600 dovetail adapter. $95.00
- **17808** AstroPhysics 2.7” mount to OPTEC-3600 adapter. IMPROVED! Now only uses 1/10” back focus. $95.00
- **17809** Takahashi 2.8” (72mm) mount to OPTEC-3600 dovetail adapter. $95.00

Mounts to FS-102/128/152 with TKP27113 89mm adapter ring, TOA-130/150 with TKP31003 coupling(W) and Mewlon 300.

- **17810** AstroPhysics 4.87-inch threaded mount to OPTEC-3600 dovetail adapter. $95.00
- **17812** Starlight 3.5 inch focuser model 3545 mount to OPTEC-3600 dovetail adapter. $95.00
- **17814** TMB 4.3-inch thread mount to OPTEC-3600 dovetail adapter. $95.00
- **17815** AstroPhysics 4.3-inch L.D. mount to OPTEC-3600. IMPROVED! Now only uses 1/10” back focus. $95.00
- **17817** PlaneWave CDK 12.5 mount to OPTEC-3600 dovetail adapter. $95.00
- **17818** PlaneWave CDK 14/17/20/24” mount to OPTEC-3600 dovetail adapter. $95.00
- **17819** Vixen VM260 telescope mount to OPTEC-3600 dovetail adapter. $95.00
- **17820** FLI PDF 4-inch V-groove to OPTEC-3600 dovetail adapter. $95.00
- **17821** VSI SideWinder 2.9-inch dovetail mount to OPTEC-3600 dovetail adapter. $95.00
- **17822** Cervolo CDK 5-inch mount to OPTEC-3600 dovetail adapter. $95.00
- **17823** RC Optical 4.75” x 24tpi threaded mount to OPTEC-3600 dovetail adapter. $95.00
- **17824** Meade RCX 3-inch threaded mount to OPTEC-3600 dovetail adapter. $95.00
- **17825** Takahashi 89mm threaded mount to OPTEC-3600 dovetail adapter. $95.00
- **17826** PlaneWave 12.5” SecureFit to OPTEC-3600 dovetail adapter. $95.00
- **17827** PlaneWave 12.5” Low Profile to OPTEC-3600 dovetail adapter. $95.00
- **17828** PlaneWave 14/17/20/24” Low Profile to OPTEC-3600 dovetail adapter. $95.00
- **17829** Meade / Celestron 2” 24tpi thread (SCT thread) to OPTEC-3600 dovetail adapter. $95.00
- **19801** M90x1mm thread to OPTEC-3600 dovetail adapter. $95.00
- **19802** DSI 3.5x24tpi (male) thread to OPTEC-3600 dovetail adapter. $95.00
- **19803** OGS 12.5-inch to OPTEC-3600 dovetail adapter. $95.00
- **19804** M117x1mm thread to OPTEC-3600 dovetail adapter. $95.00
- **19805** FLI Atlas zero-tilt adapter to OPTEC-3600 dovetail adapter. $95.00
- **19806** Takahashi M92x1mm to OPTEC-3600 dovetail adapter. $95.00
- **19807** Takahashi M98x1mm to OPTEC-3600 dovetail adapter. $95.00

Fits TOA 4-inch drawtube and replaces CAA (TPF1106). Order #17840 with Pyxis 3” for drop-in replacement.

- **19808** Takahashi M114x1mm to OPTEC-3600 dovetail adapter. $95.00
- **19809** Takahashi M125x1mm to OPTEC-3600 dovetail adapter. $95.00
- **19810** RCOS FIA100 to OPTEC-3600 dovetail adapter. $95.00
- **19811** NP127/s to OPTEC-3600 dovetail adapter. $95.00
- **19812** Takahashi M82 x 1mm thread to OPTEC-3600 dovetail adapter. $95.00
- **19813** Takahashi Epsilon M108 x 1mm thread to OPTEC-3600 dovetail adapter. $95.00

**Effective Date: September 1, 2018**

All prices subject to change without notice.
**OPTEC-3600 Female Dovetail Receiver Adapters**
These female adapters receive the OPTEC-3600 male dovetail mounts for special situations and conversions.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17858</td>
<td><strong>OPTEC-3600 dovetail to AstroPhysics 2.7” female threaded adapter.</strong></td>
<td>$95.00</td>
</tr>
<tr>
<td></td>
<td>Adapts any OPTEC-3600 male dovetail mount to the AstroPhysics 2.7” female thread.</td>
<td></td>
</tr>
<tr>
<td>17879</td>
<td><strong>Standard mountable receiver, OPTEC-3600 female receiver.</strong></td>
<td>$95.00</td>
</tr>
<tr>
<td></td>
<td>Includes 4 bolt patterns or can be drilled as necessary to adapter many devices to OPTEC-3600 dovetail.</td>
<td></td>
</tr>
<tr>
<td>17880</td>
<td><strong>OPTEC-3600 male dovetail to female 3-inch receiver.</strong></td>
<td>$75.00</td>
</tr>
</tbody>
</table>

**OPTEC-4300 4.3-inch Dovetail Mount and Camera Adapters**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17870</td>
<td><strong>OPTEC-3600 expansion adapter to OPTEC-4300 standard dovetail.</strong></td>
<td>$75.00</td>
</tr>
<tr>
<td></td>
<td>Expansion collar allows use of any standard OPTEC-3600 male dovetail mount to fit the Gemini or TCF-S3 Low-Profile focusers.</td>
<td></td>
</tr>
<tr>
<td>19829</td>
<td><strong>OPTEC-4300 extension adapter, 12.5mm length.</strong></td>
<td>$75.00</td>
</tr>
<tr>
<td></td>
<td>Short extension tube, female to male OPTEC-4300 dovetail adapter.</td>
<td></td>
</tr>
<tr>
<td>19830</td>
<td><strong>Male OPTEC-4300 to Optec-DSI 3.5x24tpi female threaded receiver.</strong></td>
<td>$125.00</td>
</tr>
<tr>
<td></td>
<td>Male OPTEC-4300 dovetail mount reduces to female DSI 3.5” threaded mount. Designed for use with the Gemini Focusing Rotator on the camera side to accept any Optec-DSI spacer combination.</td>
<td></td>
</tr>
<tr>
<td>19831</td>
<td><strong>Male Optec-DSI 3.5x24tpi thread adapter to OPTEC-4300 standard dovetail.</strong></td>
<td>$125.00</td>
</tr>
<tr>
<td></td>
<td>Male DSI 3.5 adapter can be used as a telescope side adapter for the Gemini Focusing Rotator. Optec-DSI spacers can be use between the OTA and Gemini with suitable telescope to Optec-DSI adapter below.</td>
<td></td>
</tr>
<tr>
<td>19832</td>
<td><strong>Female OPTEC-4300 to female Optec-DSI 3.5x24tpi threaded receiver.</strong></td>
<td>$125.00</td>
</tr>
<tr>
<td>19833</td>
<td><strong>Male OPTEC-4300 to 3-inch receiver for OPTEC-3000 drawtube adapters.</strong></td>
<td>$125.00</td>
</tr>
<tr>
<td>19834</td>
<td><strong>Male OPTEC-4300 to Astro-Physics AP2.7 female threaded receiver.</strong></td>
<td>$125.00</td>
</tr>
<tr>
<td>19835</td>
<td><strong>Meade 16-inch to OPTEC-4300 male dovetail mount.</strong></td>
<td>$125.00</td>
</tr>
<tr>
<td>19836</td>
<td><strong>Meade 10”, 12”, 14” OTA with 3-1/4” thread to OPTEC-4300 male dovetail mount.</strong></td>
<td>$125.00</td>
</tr>
<tr>
<td>19837</td>
<td><strong>AstroPhysics Riccardi-Honders Astrograph to OPTEC-4300 male dovetail mount.</strong></td>
<td>$125.00</td>
</tr>
<tr>
<td>19838</td>
<td><strong>Celestron C11/C14 large 3.25” thread to OPTEC-4300 male dovetail mount.</strong></td>
<td>$125.00</td>
</tr>
<tr>
<td>19839</td>
<td><strong>OPTEC-4300 extension adapter, 25mm length.</strong></td>
<td>$85.00</td>
</tr>
<tr>
<td></td>
<td>Recommended spacer between telescope and Gemini for Celestron EdgeHD and other OTAs.</td>
<td></td>
</tr>
<tr>
<td>19840</td>
<td><strong>Ceravolo CDK to OPTEC-4300 male dovetail mount.</strong></td>
<td>$125.00</td>
</tr>
<tr>
<td>19841</td>
<td><strong>M117x1mm to OPTEC-4300 male dovetail mount.</strong></td>
<td>$125.00</td>
</tr>
<tr>
<td>19842</td>
<td><strong>PlaneWave pinch-plate mount to OPTEC-4300 male dovetail mount.</strong></td>
<td>$125.00</td>
</tr>
<tr>
<td>19843</td>
<td><strong>Takahashi Epsilon 180 to OPTEC-4300 male dovetail mount.</strong></td>
<td>$125.00</td>
</tr>
<tr>
<td>19844</td>
<td><strong>OPTEC-4300 male dovetail mount to Takahashi Epsilon reducer / corrector lens.</strong></td>
<td>$125.00</td>
</tr>
<tr>
<td>19845</td>
<td><strong>OPTEC-4300 male dovetail mount to male OPTEC-3600 mount.</strong></td>
<td>$125.00</td>
</tr>
<tr>
<td>19846</td>
<td><strong>OPTEC-4300 to internal 3-inch clamp.</strong></td>
<td>$150.00</td>
</tr>
<tr>
<td></td>
<td>OPTEC-4300 to internal 3-inch clamp to allows tight fit of Paracorr, Wynne Correctors, and other 3-inch optics for the Gemini Focusing Rotator. Adjustable placement of lens inside Gemini drawtube allows ideal spacing of corrector / flattener optics to primary mirror.</td>
<td></td>
</tr>
</tbody>
</table>

For additional Gemini camera side adapters, see also [Optec-DSI 3.5 x 24tpi Threaded Adapters](#).
CAMERA SIDE ADAPTERS

2-inch Drawtube Adapters for TCF 2-inch Focusers. Also known as nosepiece adapters.

**17662** 2-inch to 1/4" adapter fits directly into the 2" TCF focuser. $45.00
**17663** 2-inch to 1/4" compression adapter fits directly into the 2" TCF focuser. $65.00
Includes quick-release locking ring and brass compression ring for 1/4" eyepieces. Non-marring!

**17664** 2-inch to T-thread adapter fits directly into the 2" TCF focuser. $45.00
[2-inch male barrel mount // T-thread 42x0.75mm male thread]

**17665** 2-inch to SCT thread (2" diameter) adapter, fits directly into the 2" TCF focuser. $45.00
[2-inch male barrel mount // SCT 2" x 24tpi male thread]

**17666** 2-inch to 3"x 24 tpi male threaded mount. $95.00
Fits Apogee, SBIG and some FLI 3" x 24tpi camera face threads.

**17667** 2-inch to STL 2.156"x 24 tpi male threaded mount. $45.00

**OPTEC-3000 3-inch Drawtube Adapters for TCF-3, Pyxis-3, and IFW-3**

**17804** OPTEC-3000 3-inch to 2" reducer bushing with removable compression ring. $95.00
Adapter with three setscrews and brass compression ring for any 2-inch drawtube adapter, eyepiece or diagonal.

**17805** OPTEC-3000 3-inch to OPTEC-2400 male dovetail. $85.00

**17806** OPTEC-3000 3-inch to STL camera mount. $85.00
This adapter attaches to the 4-bolt pattern on the STL and fits into the TCF-S3 and Pyxis 3-inch.

**17807** OPTEC-3000 3-inch to AstroPhysics 2.7" (AP2.7) female threaded mount. $85.00

**17811** OPTEC-3000 3-inch to OPTEC-3600 mount. $85.00

**17813** OPTEC-3000 3-inch to Starlight Instruments 4.1x24tpi threaded mount. $85.00

**17816** OPTEC-3000 3-inch to 3-inch Extender tube $65.00
Extends focusing range from 1.0 to 3.1 inches. Can be easily cut to length while maintaining exceptional rigidity.

**17831** OPTEC-3000 3-inch to FLI PDF 3-3/4" threaded mount. $95.00

**17832** OPTEC-3000 3-inch to 3.000" 24tpi threaded mount. $95.00

**17834** OPTEC-3000 3-inch to Takahashi 72mm female thread $95.00

**17835** OPTEC-3000 3-inch to PlaneWave SecureFit CCD Spacer. $95.00
This adapter can be used with #17826 PlaneWave SecureFit to OPTEC-3600 adapter and the Pyxis 3" rotator to directly substitute the PlaneWave 4.8" SecureFit spacer.

**17836** OPTEC-3000 3-inch to Meade 3-1/4" SCT thread. $95.00
Fits the TCF-S3 or Pyxis 3-1/4" and presents the standard Meade 3" rear cell thread for other accessories.

**17837** OPTEC-3000 3-inch to Celestron 3-1/4" SCT thread. $95.00
Fits the TCF-S3 or Pyxis 3" and presents the standard Celestron 3-1/4" rear cell thread for additional accessories.

**17838** OPTEC-3000 3-inch to AstroPhysics 2.7" male thread. $95.00

**17839** OPTEC-3000 3-inch to FLI Atlas focuser Zero-Tilt Adapter. $95.00

**17840** OPTEC-3000 3-inch to Takahashi M98x1mm male thread. $95.00

**17841** OPTEC-3000 3-inch to STXL 4-bolt adapter. $125.00

**17842** OPTEC-3000 3-inch to SCT 2"x 24tpi male thread adapter. $95.00

**17843** OPTEC-3000 3-inch to STL 2.156"x 24tpi male thread adapter. $95.00

**17844** OPTEC-3000 3-inch to T-thread M42x0.75mm male thread adapter. $95.00

**17845** OPTEC-3000 3-inch to Innovation Foresight ONAG XM On-Axis Guider. $95.00

**17846** OPTEC-3000 3-inch to M82 x 1mm female thread adapter. $95.00

**17847** OPTEC-3000 3-inch to M54 x 0.75mm female thread adapter. $95.00

**17848** OPTEC-3000 3-inch to M68 x 0.75mm female thread adapter. $95.00
Special adapter for TCF-Leo accepts Takahashi Epsilon Field Flattener with correct spacing to primary mirror.

**19825** OPTEC-3000 3-inch to 2-inch Centering Collet Precision Centering Adapter $125.00
Premium receiver for 2-inch diagonals, eyepieces and camera nosepieces. Internal brass ring will not mar accessories while machined collet design holds and centers exceptionally well.
# THREADED SPACERS AND ADAPTERS

## T-thread Adapters with M42x0.75mm threads

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19632</td>
<td>7.5mm T-thread Extension Ring.</td>
<td>$20.00</td>
</tr>
<tr>
<td>19633</td>
<td>15mm T-thread Extension Ring.</td>
<td>$22.00</td>
</tr>
<tr>
<td>19634</td>
<td>30mm T-thread Extension Ring.</td>
<td>$25.00</td>
</tr>
<tr>
<td>19635</td>
<td>40mm T-thread Extension Ring.</td>
<td>$30.00</td>
</tr>
<tr>
<td>19636</td>
<td>Canon T2 Bayonet Ring.</td>
<td>$25.00</td>
</tr>
<tr>
<td>19637</td>
<td>Nikon T2 Bayonet Ring.</td>
<td>$25.00</td>
</tr>
<tr>
<td>19850</td>
<td>T-thread to SCT-thread Expansion Ring.</td>
<td>$35.00</td>
</tr>
</tbody>
</table>

Expands the M42x0.75mm thread to a male 2”-24tpi thread. Can also be used as male T-thread to male T-thread adapter.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19851</td>
<td>T-thread to STL expansion ring adapter.</td>
<td>$65.00</td>
</tr>
<tr>
<td>19852</td>
<td>STL knurled locking ring fits 2.156”x24tpi STL male thread.</td>
<td>$15.00</td>
</tr>
<tr>
<td>19853</td>
<td>T- to C-mount adapter, female T-thread to male C-thread.</td>
<td>$35.00</td>
</tr>
</tbody>
</table>

## STL thread adapters with 2.156” x 24tpi threads.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19391</td>
<td>STL/QSI thread to T-thread adapter – Low Profile.</td>
<td>$50.00</td>
</tr>
</tbody>
</table>

Adapter to convert male QSI/STL thread to male T-thread, 7.2mm back-focus. [2.156”x24 female // M42x0.75mm T-thread male]

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19496-x</td>
<td>STL to SCT 2”x 24tpi adapter.</td>
<td>$65.00</td>
</tr>
</tbody>
</table>

Custom STL adapter for standard SCT threads. Converts male STL threads to male SCT threads. Specify length up to 60mm.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19498-x</td>
<td>STL to STL extension adapter.</td>
<td>$65.00</td>
</tr>
</tbody>
</table>

Custom adapter for STL threaded extensions. Specify length up to 60mm.

## AP 2.7 x 24tpi Threaded Adapters and Extensions

AstroPhysics standard 2.7” x 24tpi threaded adapters and extension tubes.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17458</td>
<td>Astro-Physics 2.7 thread standard (AP2.7) to OPTEC-2400 dovetail adapter.</td>
<td>$85.00</td>
</tr>
<tr>
<td>19870</td>
<td>M90 x 1mm female thread to AP2.7 Female threaded adapter.</td>
<td>$75.00</td>
</tr>
</tbody>
</table>

Converts GSO / AstroTech AT8RC spacer tubes to AP2.7 standard.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19878</td>
<td>AP2.7 x 24tpi to M54 x 0.75mm thread adapter.</td>
<td>$55.00</td>
</tr>
</tbody>
</table>

Fits Atik and other large format cameras with M54 female thread. Includes spacer for shallow thread cameras.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19879</td>
<td>AP2.7 x 24tpi to T-thread adapter.</td>
<td>$85.00</td>
</tr>
</tbody>
</table>

Includes internal thread for Takahashi Collimation Scope. (equivalent to RCOS T-2-AP adapter)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19880</td>
<td>AP2.7 x 24tpi Extension Tube Set, 4-piece.</td>
<td>$115.00</td>
</tr>
</tbody>
</table>

Provides ¼” incremental extensions from ½” to 3-¼” Includes ½”, ¾”, 1”, and 1-¼” extensions (#19891 through #19894 below)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19881</td>
<td>AP2.7 x 24tpi Extension Tube Set, 5-piece.</td>
<td>$150.00</td>
</tr>
</tbody>
</table>

Includes ½”, ¾”, 2”, 1-½”, and 3” extensions (#19891 through #19895 below)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19882</td>
<td>AP2.7 x 24tpi Extension Tube, ¼” length.</td>
<td>$30.00</td>
</tr>
<tr>
<td>19883</td>
<td>AP2.7 x 24tpi Extension Tube, ¾” length.</td>
<td>$30.00</td>
</tr>
<tr>
<td>19884</td>
<td>AP2.7 x 24tpi Extension Tube, 1” length.</td>
<td>$30.00</td>
</tr>
<tr>
<td>19885</td>
<td>AP2.7 x 24tpi Extension Tube, 1-½” length.</td>
<td>$30.00</td>
</tr>
<tr>
<td>19886</td>
<td>AP2.7 x 24tpi Extension Tube, 3” length.</td>
<td>$40.00</td>
</tr>
<tr>
<td>19887</td>
<td>AP2.7 x 24tpi male to male thread adapter.</td>
<td>$60.00</td>
</tr>
<tr>
<td>19888</td>
<td>AP2.7 knurled female threaded retaining ring.</td>
<td>$15.00</td>
</tr>
</tbody>
</table>

Use this locking ring to set the back-focus distances at exactly the distance required. 1/10” thick, Gold anodized.
Standard 3x24tpi Threaded Adapters
Apogee, SBIG, and other cameras share a common 3.000"x24tpi threaded female interface for their large cameras and filter wheels. These mechanical adapters allow a proper fit to other telescope and camera interfaces.

- **1766** 2-inch to 3"x 24tpi male threaded mount. $95.00
  Also listed in the 2-inch Drawtube Adapters section.
- **17832** 3-inch to 3"x 24tpi threaded mount. $95.00
  Also listed in the 3-inch Drawtube Adapters section.
- **19370** 3"x 24tpi Male to Male threaded adapter. $95.00
  Adapter with male to male 3"x24tpi threads to directly attach Apogee or SBIG cameras to Equuleus tip-tilt adapter.
- **19371** 3" x 24tpi Male to T-thread adapter. $95.00
- **19372** 3” x 24tpi Male to STL 2.156”x24tpi thread adapter. $95.00
- **19373** 3”x 24tpi Female to male OPTEC-3600 dovetail mount. $95.00
  Also fits Televue NP101is. Same as stock #19811.

Optec-DSI 3.5x24tpi Threaded Adapters and Extensions
Optec-DSI standard 3-½” x 24tpi threaded adapters and extension tubes. Anti-reflection threaded, ultra-flat black painted and baked interior finish with no internal reflections guaranteed.

- **19802** Optec-DSI 3.5x24tpi (male) thread to OPTEC-3600 dovetail adapter. $95.00
  [Also listed under Telescope Adapter to OPTEC-3600 mount section]
- **19889** Optec-DSI 3.5x24tpi Extension Tube Set, 4-piece. $175.00
  Provides ¼” incremental extensions from ⅜” to 3-⅛” includes ½", ¾", 1", and 1½- ⅞” extensions (#19891 through #19894 below)
- **19890** Optec-DSI 3.5x24tpi Extension Tube Set, 5-piece. $235.00
  Includes ½", ⅞", 1", 1½-⅞", and 3” extensions (#19891 through #19895 below)
- **19891** Optec-DSI 3.5x24tpi Extension Tube, ½” length. $50.00
- **19892** Optec-DSI 3.5x24tpi Extension Tube, ¾” length. $50.00
- **19893** Optec-DSI 3.5x24tpi Extension Tube, 1” length. $50.00
- **19894** Optec-DSI 3.5x24tpi Extension Tube, 1½” length. $50.00
- **19895** Optec-DSI 3.5x24tpi Extension Tube, 3” length. $65.00
  Optec-DSI 3.5x24 adapters are typically mounted male end toward telescope. The 3-inch extension tube is baffled
- **19896** Optec-DSI 3.5x24tpi (male) to AstroPhysics 2.7” female adapter. $65.00
- **19897** Optec-DSI 3.5x24tpi knurled female threaded retaining ring. $25.00
  Use this locking ring to set the back-focus distances at exactly the distance required. 1/10” thick, Gold anodized.
- **19898** M90x1mm female to Optec-DSI 3.5x24tpi female thread adapter. $95.00
- **19899** M117x1mm female to Optec-DSI 3.5x24tpi female thread adapter. $95.00
  Converts Astrotech rear cell thread to Optec-DSI 3.5x24tpi thread spec for stronger spacer sets with improved resolution.
- **19905** Optec-DSI 3.5x24tpi male thread to 2-inch receiver with brass compression ring. $95.00
  Accepts 2-inch eyepieces, star diagonal, or 2-inch camera nosepiece.
- **19910** Optec-DSI 3.5 x 24tpi male thread to OPTEC-2400 male dovetail adapter. $95.00
- **19911** Optec-DSI 3.5 x 24tpi male thread to M54 x 0.75mm camera thread. $95.00
- **19912** Optec-DSI 3.5 x 24tpi male thread to male T-thread adapter. $75.00
- **19913** Optec-DSI 3.5 x 24tpi male thread to 2” x 24tpi SCT male thread adapter. $75.00
- **19914** Optec-DSI 3.5 x 24tpi male thread to STL 2.156” x 24tpi male thread adapter. $75.00
- **19915** Optec-DSI 3.5 x 24tpi male thread to 3” x 24tpi male thread adapter. $75.00
- **19916** Optec-DSI 3.5 x 24tpi male thread to M92 x 1mm male thread adapter. $95.00
- **19917** Optec-DSI 3.5 x 24tpi male thread to M72 x 1mm male thread adapter. $95.00
- **19918** Optec-DSI 3.5 x 24tpi male thread to M72 x 1mm female thread adapter. $95.00
- **19920** Optec-DSI 3.5 x 24tpi male thread to PlaneWave SecureFit. $95.00
Other Adapters and Threaded Extensions

19790 Meade-Celestron Adapter – Meade 16” SCT to Celestron 3-1/4” thread. $55.00
Unique adapter allows conversion of Meade 16” SCT thread (4” x 16tpi) to Celestron 11/14 SCT thread (3-1/4” x 16tpi) allowing use of various Celestron large format accessories.

19791 CS-mount to C-mount adapter. $20.00
5mm long C-thread extension converts CS-mount camera to C-mount back-focus specification.

19849 2-inch Filter Cell adapter. $20.00
Converter female M48x0.6mm (Celestron and Optec standard) filter threads to M48x0.75mm female thread.

Celestron EdgeHD Accessories

19792 Sure-Lock Mirror Support Clutch Knobs for Celestron EdgeHD OTA. $80.00
Special Low-Profile replacement lock knob set to allow additional clearance for TCF-Leo on Celestron C14 EdgeHD models and others. These lock knobs are machined from solid 360 alloy brass with heavy knurl for easier locking of the primary mirror. Easy installation provides an additional 22mm of clearance. Guaranteed to hold better than factory lock knobs or your money back. Set of two.

COMBINATION CAMERA/TELESCOPE ADAPTERS

OPTEC-2100 Adapters and Accessories for NextGEN, Lepus, and original Pyxis 2” Rotator.

SPECIAL NOTE: The OPTEC-2100 dovetail spec allows direct connection of the NextGEN and Lepus telecompressors to fit the original Pyxis 2” camera rotator. The new Pyxis 2-inch GEN 3 model uses the standard OPTEC-2400 dovetail mounts instead. Optec will continue to supply these adapters for original Pyxis 2” rotator owners as long as items below are requested.

17631 OPTEC-2400 female receiver to OPTEC-2100 male dovetail. $45.00
17634 OPTEC-2100 receiver to ONAG XT/XM dovetail mount. $55.00
Allows direct connection of Lepus telecompressor to Innovation Foresight On-Axis Guider.

17635 OPTEC-2100 receiver to Celestron OAG dovetail mount for DSLR. $55.00
Allows direct connection of Lepus telecompressor to Celestron OAG while maintaining standard 55mm back-focus for DSLR.

17636 OPTEC-2100 receiver to Celestron OAG dovetail mount – Low Profile. $55.00
Lowest profile mount for direct connection of Lepus telecompressor to Celestron OAG.

17638 AP2.7 male thread to Pyxis telescope side adapter. $65.00
17639 2” x 24tpi SCT thread to Pyxis adapter. $55.00
Adapter to allow direct connection of the Pyxis 2-inch rotator to the SCT male thread available on many SCT telescopes. Allows closest connection of the Pyxis 2-inch to SCT telescope. [Female SCT thread // OPTEC-2100 male dovetail]

17641 T-thread to Pyxis adapter. $45.00
Adapter with female T-thread to fit existing male M42x0.75mm T-thread directly to Pyxis 2-inch using the OPTEC-2100 connection. [Female T-thread // OPTEC-2100 male dovetail]

17642 Pyxis 2-inch nosepiece replacement. $60.00
The Pyxis is shipped with this adapter to fit any 2-inch ID focusing mount. [2-inch barrel mount // OPTEC-2100 male dovetail]
## CABLES AND CONVERTERS

### USB-to-Serial Converters

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17690</td>
<td>USB to Serial Converter 1-Port</td>
<td>$30.00</td>
</tr>
<tr>
<td>17691</td>
<td>USB to Serial Converter 4-Port</td>
<td>$175.00</td>
</tr>
</tbody>
</table>

Provides 4 serial ports from one USB connection.

### PC Serial Port Converter

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17695</td>
<td>PC Serial Port Converter, DB-9 to RJ-12, for TCF-S Focuser</td>
<td>$15.00</td>
</tr>
</tbody>
</table>

Allows PC serial communications with the TCF-S Focuser and IFW Filter Wheel using any 9-pin serial port. A RJ-12 Reverse Cable is required for proper operation. See stock numbers 17671 through 17674 below.

### PC Serial Cables for Optec devices

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17671</td>
<td>6-foot RJ-12 Reverse Cable for use with #17695 converter above</td>
<td>$10.00</td>
</tr>
<tr>
<td>17672</td>
<td>12-foot RJ-12 Reverse Cable for use with #17695 converter above</td>
<td>$15.00</td>
</tr>
<tr>
<td>17673</td>
<td>25-foot RJ-12 Reverse Cable for use with #17695 converter above</td>
<td>$25.00</td>
</tr>
<tr>
<td>17674</td>
<td>50-foot RJ-12 Reverse Cable for use with #17695 converter above</td>
<td>$30.00</td>
</tr>
</tbody>
</table>

### USB/Serial Cables

Single piece cable in integrated FTDI USB converter. Uses VCP technology to provide direct USB connection for Optec devices.

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19671</td>
<td>6-foot RJ-12 Serial / USB cable with integrated FTDI USB converter</td>
<td>$55.00</td>
</tr>
<tr>
<td>19672</td>
<td>12-foot RJ-12 Serial / USB cable with integrated FTDI USB converter</td>
<td>$60.00</td>
</tr>
<tr>
<td>19673</td>
<td>25-foot RJ-12 Serial / USB cable with integrated FTDI USB converter</td>
<td>$65.00</td>
</tr>
<tr>
<td>19674</td>
<td>50-foot RJ-12 Serial / USB cable with integrated FTDI USB converter</td>
<td>$75.00</td>
</tr>
<tr>
<td>19675</td>
<td>Custom length RJ-12 Serial / USB cable with integrated FTDI USB converter</td>
<td>$50 plus $1.00/ft.</td>
</tr>
</tbody>
</table>

19681 NEW! USB/Serial cable for Celestron mounts with RJ22 socket, specify length up to 25-ft. $60.00
19682 NEW! USB/Serial cable for Meade telescope mounts, specify length up to 25-ft. $60.00

### Control Cables for TCF-S and IFW Systems

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17470</td>
<td>6-foot Control Cable, Hand Controller to TCF-S/IFW, RJ-45 to DB-9</td>
<td>$30.00</td>
</tr>
<tr>
<td>17471</td>
<td>12-foot Control Cable, Hand Controller to TCF-S/IFW, RJ-45 to DB-9</td>
<td>$40.00</td>
</tr>
<tr>
<td>17472</td>
<td>25-foot Control Cable, Hand Controller to TCF-S/IFW, RJ-45 to DB-9</td>
<td>$50.00</td>
</tr>
<tr>
<td>17473</td>
<td>50-foot Control Cable, Hand Controller to TCF-S/IFW, RJ-45 to DB-9</td>
<td>$60.00</td>
</tr>
</tbody>
</table>

## INSTRUMENT SELECTOR / OPTICAL MANIFOLD

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19605</td>
<td>Perseus 4-Port Instrument Selector, GEN 3</td>
<td>$3,495.00</td>
</tr>
</tbody>
</table>

Complete third generation motorized instrument selector system with four optical ports. Now includes Optec standard USB/Serial communication cable and integrated Ethernet connectivity. Perseus 4-Port Instrument Selector includes one 3-inch port with OPTEC-3600 male dovetail mount, three 2-inch ports with Parfocal rings including integral OPTEC-2300 receivers, covers for each port, 6-ft. USB/serial cable for remote control, and control software.

Contact Optec for detailed telescope configuration, port recommendations, and formal quotation.

19608 OPTEC-3600 shipping and dust cover for Perseus and other OPTEC-3600 receivers. $75.00
19609 3-piece replacement dust cover set for 2-inch ports. $95.00
19611 Low profile Blank Cover Plate for 2-inch port. $75.00
19612 2-inch Saddle with OPTEC-2400 dovetail mount, threaded for Parfocal mount (#19620 below). $75.00
19619 Dust cover for OPTEC-3600 dovetail. $45.00
19620 Parfocal mount with integral OPTEC-2300 dovetail receiver and locking retainer ring. $75.00
TELESCOPE FOCUSING SYSTEMS

FocusLynx Telescope Focus Controller Systems

NEW! See separate FocusLynx Kit Pricing for best prices for multiple focuser configurations and options.

19690 FocusLynx multi-focuser Controlling Hub
Focus controller capable of controlling two separate stepper driven focusers with Cat5 Ethernet, Wireless 802.11, and serial /USB computer input. Includes built-in step driver board for Focuser 1, universal power supply, and 7-ft. Cat-5e network cable. $325.00

19695 FocusLynx Hand Control with Fine Focus and Digital Read Out
External Hand Control provides manual control and position digital read-out with Mode, IN/OUT buttons, and rotary knob for fine focus control. Includes 6-ft. and 25-ft. coiled handset cables. $175.00

19695 Fine Focus Knob upgrade for FocusLynx Hand Control.
Requires return of Hand Controller to Optec. Contact sales@optecinc.com for details. $65.00

19695-FB Fine Focus Knob upgrade for Focus Boss II Hand Control.
Focus Boss II Hand Control requires additional machining operation to make room for the rotary encoder switch. Requires return of Hand Controller to Optec. Contact sales@optecinc.com for details. $85.00

19533 Focus Lynx step driver board for second focuser
Add-on socketed stepper control driver board for addition of second focuser. Specify focuser to be added. Includes 7-ft. Cat-5e focuser control cable. Factory installation available. $60.00

19535 Focus Lynx 802.11 Wireless board – Discontinued
See replacement Optec WiFi board #19755 below. ---

19691 Universal mounting bracket for Focus Lynx Control Hub. $35.00

19539 Focus Lynx precision temperature probe kit.
Includes splitter board, temperature probe, and 3-ft. motor cable for QuickSync focus motors. $95.00

19698 Converter for Robo-Focus motor, RJ45 to DB9.
Allows control of Robo-Focus motors with the Focus Lynx system. $20.00

19699 Cable for original FeatherTouch/MicroTouch unipolar motor, 6-ft. length. $20.00

19755 Optec WiFi 802.11bg Wireless Network board. $195.00
NEW! Second generation WiFi board with 802.11b/g connectivity to local wireless networks. Works with both FocusLynx and Gemini control boards.

2-inch Crayford Style Focusers

17668 Model TCF-Si, Integrated Temperature Compensating Focuser.
Complete 2’ TCF-Si focuser with integrated control circuit. Includes TCF-Si focuser, temperature sensor probe with 20” cable, 12VDC power supply with cord, and 6-ft. USB/Serial cable. Order OPTEC-2400 telescope mount and optional 2-inch adapters separately.

[OPTEC-2400 female dovetail // 2-Inch I.D. female receiver] $725.00

17670 Model TCF-S, 2” Temperature Compensating Focuser.
Includes 2’ TCF-S focuser, temperature sensor probe with 20” cable, control box with precision digital display (DRO) and IN/OUT manual focus push buttons, 12VDC power supply with cord, 12-ft. Control cable, and 6-ft. USB/Serial cable. Order OPTEC-2400 telescope mount and optional 2-inch adapters separately. – Limited Stock – See TCF-Lynx below for replacement.

[OPTEC-2400 female dovetail // 2-Inch I.D. female receiver] $875.00

19700 TCF-Lynx, 2” Temperature Compensating Focuser with FocusLynx Controller. $875.00
TCF-Lynx focuser with FocusLynx control system includes 2-inch Crayford style focuser, FocusLynx controller, 20-inch long temperature probe, 12VDC power supply, 7-ft. Cat-5e cable for FocusLynx to TCF-Lynx connection, and 6-ft. USB/Serial cable for PC connection. Order OPTEC-2400 Telescope Mount and optional 2-inch adapters separately.

[OPTEC-2400 female dovetail //2-Inch I.D. female receiver] $595.00

19701 Model TCF-Lynx [NC], 2” Temperature Compensating Focuser. $595.00
TCF-Lynx 2-inch Crayford style focuser without controller. Configured for use with Focus Lynx Control Hub as second focuser. Includes 20-inch temperature probe and 7-ft. Cat-5e cable for connection to Focus Lynx Hub. Order telescope mount, Focus Lynx Controller Hub, and second Focus Lynx step driver board (#19533) separately.

[OPTEC-2400 female dovetail // 2-Inch I.D. female receiver]
3-inch Crayford Style Focusers

17678  **Model TCF-S3i, 3" Integrated Temperature Compensating Focuser.**  
Complete 3-inch TCF-S3i focuser with integrated control circuit. Includes TCF-S3i focuser, temperature sensor probe with 20" cable, 12VDC power supply with cord, and 6-ft. USB/Serial cable. Order OPTEC-4300 telescope mount and optional 3-inch adapters separately.  
[OPTEC-4300 female dovetail // 3-Inch I.D. female receiver]  

\[ \text{Effective Date: September 1, 2018} \]

\[ \text{Cost: $1,595.00} \]

17677  **Model TCF-S3, 3" Temperature Compensating Focuser.**  
Recommended for observatory class telescopes with large field diameters. Includes temperature sensor probe with 20" cable, control box with precision digital display (DRO) and IN/OUT manual focus push buttons, 12VDC power supply with cord, 12-ft. Control cable, and 6-ft. USB Serial cable. Order OPTEC-3600 telescope mount and optional 3-inch adapters separately.  
\[ \text{Limited Stock -- See TCF-Lynx3 below for replacement.} \]

\[ \text{Cost: $1,795.00} \]

19706  **TCF-Lynx3, 3" Temperature Compensating Focuser with FocusLynx Controller.**  
TCF-Lynx3 focuser with FocusLynx control system includes 3-inch Crayford style focuser, FocusLynx controller, 20-inch long temperature probe, power supply, 7-ft. Cat-5e cable and 6-ft. USB/Serial cable for PC connection. Order OPTEC-4300 Telescope Mount separately. TCPIP control through Ethernet wired or wireless network is optionally available.  
[OPTEC-4300 female dovetail // 3-Inch I.D. female receiver]  

\[ \text{Cost: $1,795.00} \]

19707  **TCF-Lynx3 [NC], 3" Temperature Compensating Focuser.**  
TCF-Lynx3 focuser for use with FocusLynx control system. Includes 3-inch Crayford style focuser, 20-inch long temperature probe, power supply, 7-ft. Cat-5e cable for FocusLynx to TCF-Lynx3 connection. Order OPTEC-4300 Telescope Mount and FocusLynx Controller separately.  
[OPTEC-4300 female dovetail // 3-Inch I.D. female receiver]  

\[ \text{Cost: $1,495.00} \]

Low-Profile Lead-Screw Focusers

19740  **TCF-Leo Low-Profile Focuser**  
Very low profile 3-inch focuser – only 1-1/4" thick with 0.35” (8.9mm) of drawtube travel. Includes FocusLynx control hub, power supply, cables, and 20-inch long temperature probe. Specify OPTEC-3600 telescope-side mount and OPTEC-3000 3-inch drawtube camera-side mount separately.  
[OPTEC-3600 female receiver // OPTEC-3000 3-Inch I.D. female receiver]  

\[ \text{Cost: $1,295.00} \]

19740-HC  **TCF-Leo Low-Profile Focuser with Hand Controller**  
TCF-Leo focuser with FocusLynx Hand Controller included. Fine Focus rotary knob for precise control while manually focusing. See FocusLynx Control Hub for additional options.  

\[ \text{Cost: $1,395.00} \]

19745  **Custom 3-inch Clamp Mount drawtube for Wynne Correctors and TCF-Leo**  
Special replacement drawtube for TCF-Leo 3-inch focuser to fit large Wynne Correctors allowing adjustments for spacing between corrector and primary mirror. Contact Optec for details.  

\[ \text{Cost: $75.00} \]

19750  **Gemini Combination Focuser and Rotator.**  
Gemini Focusing Rotator provides both focus and rotation in a single device. Wide 3.75” opening designed for very large payload systems with limited back-focus. Overall thickness is 2.25” with ½” of focuser travel. Package includes Gemini controller, Hand Controller, power supply, cables and Pelican type case. Order OPTEC-4300 adapters for telescope and camera side connections. Stock item #19930 OPTEC-4300 to DSI 3.5x24tpi threaded adapter is now included for the camera side mount. See Optec-DSI 3.5x24tpi threaded extension section for spacer selections.  

\[ \text{Cost: $3,495.00} \]

19752  **Gemini Hand Controller with rotational encoder button.**  
Digital read-out, 3-button interface with rotary switch. Includes short and long coiled telephone handset cables. Now included with every new Gemini Focusing Rotator.  

\[ \text{Cost: $195.00} \]

FastFOCUS Secondary Mirror Focusing Systems for Catadioptrics

19711  **C11 FastFOCUS Secondary Mirror Focusing System**  
Stepper driven secondary focuser system for Celestron C1100 EdgeHD and other Fastar compatible C11 telescopes. Includes Focus Lynx controlling hub and Focus Lynx Hand Control below. Contact Optec for details.  

\[ \text{Cost: $1,195.00} \]

19714  **C14 FastFOCUS Secondary Mirror Focusing System**  
Stepper driven secondary focuser system for Celestron C1400 EdgeHD and other Fastar compatible C14 telescopes. Includes Focus Lynx controlling hub and Focus Lynx Hand Control below. Contact Optec for details.  

\[ \text{Cost: $1,195.00} \]

19721  **Split-wiring kit for C11HD FastFocus**  

\[ \text{Cost: $95.00} \]

19724  **Split-wiring kit for C14HD FastFocus**  

\[ \text{Cost: $95.00} \]
**Temperature Sensor and Remote Focuser Keypad Options**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17661</td>
<td>Custom temperature sensor probe option up to 6-ft. (2m) length.</td>
<td>$15.00</td>
</tr>
<tr>
<td>17680</td>
<td>Remote IN/OUT Keypad for TCF-S and TCF-Lynx and Gemini.</td>
<td>$75.00</td>
</tr>
</tbody>
</table>

Red anodized aluminum hand paddle with IN and OUT pushbuttons works very well with any TCF model focuser including the new TCF-Lynx focusers. Plugs into temperature probe connector on the motor housing and allows for manual focusing. Connection is hot swappable. Standard cable length is 3 feet.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17682</td>
<td>Remote IN/OUT Keypad and Temperature Probe Extension Cable.</td>
<td>$20.00</td>
</tr>
</tbody>
</table>

6-ft. (2m) extension cable with 6-pin DIN male to female connections.

**TCF Focuser Conversions and Upgrades**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17528</td>
<td>Convert classic TCF-S to TCF-Si</td>
<td>$195.00</td>
</tr>
<tr>
<td>17529</td>
<td>Convert classic TCF-S3 to TCF-S3i</td>
<td>$225.00</td>
</tr>
<tr>
<td>17725</td>
<td>Upgrade classic TCF-S or TCF-Si to TCF-Lynx [NC]</td>
<td>$195.00</td>
</tr>
</tbody>
</table>

Upgrade for use with FocusLynx Control Hub. Requires return of TCF-S/Si focuser body for new motor and motor housing end-cap with RJ45 socket connector. Order FocusLynx Control Hub (#19690) separately below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17726</td>
<td>Upgrade classic TCF-S3 or TCF-S3i to TCF-Lynx3 [NC]</td>
<td>$225.00</td>
</tr>
</tbody>
</table>

Upgrade for use with FocusLynx Control Hub. Requires return of TCF-S3/S3i focuser body for new motor and motor housing end-cap with RJ45 socket connector. Order FocusLynx Control Hub (#19690) separately below.

**High-Torque Motors for Non-Optec Focusers**

Compatible with Focus Lynx multi-focuser Controlling Hub.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19765</td>
<td>QuickSync MEF motor for Takahashi MEF dual-speed focusers.</td>
<td>$335.00</td>
</tr>
<tr>
<td>19765US</td>
<td>QuickSync MEF motor for silver knob US-made MEF Takahashi focusers.</td>
<td>$335.00</td>
</tr>
<tr>
<td>19767</td>
<td>DirectSync FSQ130 motor for Takahashi FSQ-130ED with native dual-speed focuser.</td>
<td>$375.00</td>
</tr>
<tr>
<td>19768</td>
<td>QuickSync SV20 for older Stellarvue 2-inch focusers.</td>
<td>$335.00</td>
</tr>
<tr>
<td>19770</td>
<td>QuickSync FT20R motor for FeatherTouch 2-inch Rack-and-Pinion focusers.</td>
<td>$335.00</td>
</tr>
<tr>
<td>19771</td>
<td>QuickSync FT20 motor for FeatherTouch 2-inch focusers.</td>
<td>$335.00</td>
</tr>
<tr>
<td>19772</td>
<td>QuickSync FT30 motor for FeatherTouch 2.5, 2.7 and 3-inch focusers.</td>
<td>$335.00</td>
</tr>
<tr>
<td>19773</td>
<td>QuickSync FT40 motor for FeatherTouch 3.5-inch focusers.</td>
<td>$335.00</td>
</tr>
<tr>
<td>19775</td>
<td>DirectSync ACF motor assembly for Meade ACF f/8 built-in dual-speed focuser.</td>
<td>$375.00</td>
</tr>
<tr>
<td>19776</td>
<td>DirectSync APO motor assembly for many Apochromat refractors.</td>
<td>$375.00</td>
</tr>
<tr>
<td>19777</td>
<td>DirectSync TEC motor for TEC Large Focuser for the APO140 and larger scopes.</td>
<td>$375.00</td>
</tr>
<tr>
<td>19778</td>
<td>DirectSync SV motor for StellarVue 2.5-inch focuser.</td>
<td>$375.00</td>
</tr>
<tr>
<td>19779</td>
<td>DirectSync TPO motor for Third-Planet Optics native focusers.</td>
<td>$375.00</td>
</tr>
</tbody>
</table>

All prices subject to change without notice.
# PYXIS CAMERA FIELD ROTATORS

## Pyxis LE Camera Field Rotator

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19630</td>
<td><strong>Pyxis LE T-mount Camera Field Rotator.</strong>&lt;br&gt;Ted Agos Signature Series camera rotator with integrated 2-inch nosepiece barrel and T-thread camera mount. Includes integrated 2-inch barrel for easy insertion into the Optec TCF-S or any 2-inch focuser, low profile main body, and male T-thread for direct attachment of any T-thread camera. Includes power supply, USB cable, and driver CD with ASCOM and stand-alone drivers. PC connection is required for operation. Original concept design by Ted Agos. [2-inch male barrel mount // male M42x0.75mm T-thread]</td>
<td>$695.00</td>
</tr>
</tbody>
</table>

## Pyxis 2-inch Camera Field Rotator – NEW! 3rd Generation with Ethernet

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19645</td>
<td><strong>Pyxis 2-inch GEN 3 Camera Field Rotator.</strong>&lt;br&gt;3rd Generation Pyxis 2-inch camera rotator attaches directly to most CCD camera using any of the Pyxis 2” camera mounts below. On the telescope side, the standard 2-inch nosepiece will push-fit directly into TCF-S or any 2-inch ID focuser. The Pyxis 2-inch Gen3 includes built-in Ethernet for remote operations – no external hand control is required. Includes 12VDC power supply with cord, standard 2-inch nosepiece, T-thread camera mount, Ethernet cable, and 6-ft. Serial/USB cable. External control PC is required for operation. [OPTEC-2400 receiver with 2-inch barrel mount installed // OPTEC-2300 female dovetail with male M42x0.75mm T-thread]</td>
<td>$1,195.00</td>
</tr>
</tbody>
</table>

## Pyxis 3-inch Camera Field Rotators

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17746</td>
<td><strong>Pyxis 3-inch Gen2 Camera Field Rotator with AP2.7 Female Threaded Receiver.</strong>&lt;br&gt;Second Generation Pyxis 3-inch camera rotator is a massive unit for large telescopes and heavy instrument packages. The Pyxis 3-inch includes a built-in side-mounted serial port for remote operations – no external hand control is required. Includes 15VDC power supply with right angle power plug and cord and 6-ft. USB/Serial cable. Order appropriate OPTEC-3600 telescope mount above. A PC connection is required for operation of the Pyxis 3-inch. Only 50mm thick. [OPTEC-3600 female dovetail // AP2.7 female threaded receiver]</td>
<td>$1,995.00</td>
</tr>
<tr>
<td>17747</td>
<td><strong>Pyxis 3-inch Gen2 Camera Field Rotator with OPTEC-3000 3-inch Receiver.</strong>&lt;br&gt;Second Generation Pyxis 3-inch camera rotator is a massive unit for large telescopes and heavy instrument packages. The Pyxis 3-inch includes a built-in side-mounted serial port for remote operations – no external hand control is required. Includes 15VDC power supply with right angle power plug and cord and 6-ft. USB/Serial cable. Order appropriate OPTEC-3600 telescope mount above. A PC connection is required for operation of the Pyxis 3-inch. Standard 3-inch receiver is 61mm thick. [OPTEC-3600 female dovetail // OPTEC-3000 3-inch female receiver]</td>
<td>$1,995.00</td>
</tr>
<tr>
<td>17748</td>
<td><strong>Pyxis 3-inch Gen2 Camera Field Rotator with Female DSI 3.5x24tpi threaded Receiver.</strong>&lt;br&gt;Second Generation Pyxis 3-inch camera rotator is a massive unit for large telescopes and heavy instrument packages. This Gen2 Pyxis 3” introduces a DSI 3.5x24tpi threaded receiver for use with DSI spacers listed above. The Pyxis 3-inch includes a side-mounted serial port for remote operations – no external hand control is required. Includes 15VDC power supply with right angle power plug and cord and 6-ft. USB/Serial cable. Order appropriate OPTEC-3600 telescope mount above. A PC connection is required for operation of the Pyxis 3-inch. DSI receiver rotators are 51.5mm thick. [OPTEC-3600 female dovetail // DSI 3.5x24tpi female thread]</td>
<td>$1,995.00</td>
</tr>
</tbody>
</table>

## Pyxis LE Accessories

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>19631</td>
<td><strong>Pyxis LE Retainer Kit for f/6.3 SCT telecompressors and other 43mm optics.</strong>&lt;br&gt;Special retaining set and spanner tool for insertion of Celestron, Meade, Antares, and other small telecompressor optics for integration into Pyxis LE nosepiece.</td>
<td>$65.00</td>
</tr>
</tbody>
</table>
Pyxis 2” Camera Side Adapters with OPTEC-2300 dovetail

Each camera side adapter has a male OPTEC-2300 dovetail to fit the rear OPTEC-2300 Receiver, Pyxis 2’, or the #19620 Perseus parfocal receiver.

17633 Pyxis mount for M48x0.75mm threaded interface.  
$60.00

17637 2-inch to OPTEC-2300 dovetail expansion collor.  
$30.00

Allows any 2-inch nosepiece to attach inside Pyxis 2’ GEN3 rotator.  Especially designed for Baader MPCC corrector.

17643 Pyxis QSI camera mount.  
[OPTEC-2300 male dovetail // QSI 4-bolt pattern]  
$60.00

17644 Pyxis STL mount with OPTEC-2300 male dovetail.  
[OPTEC-2300 male dovetail // SBIG STL 4-bolt hole mount]  
$60.00

17646 Pyxis T-thread camera mount.  
This adapter allows use of NextGEN reducers to work with most SBIG cameras without CFW wheel. However, SBIG cameras using the CFW wheel must also purchase the 17654 extender tube. This moves the camera further back so that the CFW motor does not interfere with the Pyxis  
[OPTEC-2300 male dovetail // T-thread 42x0.75 mm male thread]  
$60.00

17647 Pyxis Pentax camera mount.  
[OPTEC-2300 male dovetail // Pentax M42x1 mm male thread]  
$60.00

17648 Pyxis SCT short threaded camera mount.  
Short threaded mount is intended to fit Apogee and similar cameras with the SCT 2-inch x 24 TPI thread  
[OPTEC-2300 male dovetail // 2-inch 24tpi SCT male thread]  
$60.00

17657 Pyxis SCT long threaded mount  
Long threaded mount will fit the standard Meade/Celestron visual back, AO-7 and f/6.3 reducer.  
[OPTEC-2300 male dovetail // 2-inch 24tpi SCT male thread]  
$60.00

17649 Pyxis C-thread camera mount.  
[OPTEC-2300 male dovetail // C-mount 1-inch male thread]  
$60.00

17650 Pyxis STL 2.156” x 24tpi male thread.  
[OPTEC-2300 male dovetail // SBIG STL / QSI 2.156” x 24tpi male thread]  
$60.00

17654 Extender tube, 16mm length (OPTEC-2300 male dovetail to OPTEC-2300 female receiver).  
The extender tube moves the camera away from the Pyxis by 16 mm. Mounts between the camera adapter and Pyxis. This is sometimes needed if some member of the camera or camera filter wheel obstructs the Pyxis during rotation. In order for the CFW-8/9 filter wheel from SBIG to be used, this adapter must be added to the T-thread camera mount stock number 17646.  
$45.00

LIBRA DOVETAIL MOUNTING SYSTEM

19230 Libra Alt-Azimuth Adjusting Base.  
Heavy duty mounting platform for tandem and top-mounted OTA’s. Manual altitude and azimuth controls with locking nuts. Very simple adjustment for co-aligning two telescope OTA’s. Female to male Losmandy D-style dovetails.  
$495.00

19235 Libra Systems - Keller EZ-Saddle  
Specify mount type for correct hardware kit – included in price. Supported mounts include: Celestron CGE Pro, Astro-Physics AP900, AP1200, AP1600, AP3600, Mach 1, SB3622, Mi-250, Losmandy G11, Takahashi EM-400, Paramount ME Versaplate, PlaneWave Ascension A200 mount.  
$325.00

19234 Universal Male D-plate dovetail base for EZ-Saddle.  
Male D-plate attaches to bottom of EZ-Saddle for universal fit to most saddles including Paramount MX, MX+, and MyT mount.  
$55.00

19236 EZ-Saddle Adapter and Bolt kit for Celestron CGEM mount  
$75.00
INTELLIGENT FILTER WHEEL SYSTEMS

IFW Automated Filter Selector Systems

17350  IFW 2” Intelligent Filter Selector System.  
Includes IFW filter selector system with integrated stepper motor, intelligent controller box with SBIG CFW-8 emulation and PC serial modes.  Includes 12 VDC power supply with cord, 12-ft. Control cable, and 6-ft. USB/Serial cable.  Order OPTEC-2400 telescope mount, IFW mounting ring, filter wheels, and filters separately.  
[OPTEC-2400 female dovetail] / [OPTEC-2380 female thread]  
$850.00

17360  IFW 3” Intelligent 3” Filter Selector System.  
Includes IFW 3” selector system with integrated stepper motor, intelligent controller box with SBIG CFW-8 emulation and PC serial modes.  Includes 12 VDC power supply with cord, 12-ft. Control cable, and 6-ft. USB/Serial cable.  Order 3” telescope mount, rear camera side adapters, filter wheels and filters separately.  
[OPTEC-3600 female dovetail (w/ #17368)] / [OPTEC-3000 receiver (w/ #17367)]  
$1,350.00

6-inch Filter Wheels for IFW 2” Filter Selector

17353  5-position Filter Wheel for 2” diameter filters with mounting tabs  
New filter wheel design allows filters to be easily installed and removed with delrin tabs and spacers.  Tab and spacer kit #17584 is included.  
$225.00

17354  7-position Filter Wheel Carousel for 36mm diameter filters with mounting tabs.  
New filter wheel design allows installation of seven 36mm diameter filters for astronomical use.  
$225.00

17355  5-position Filter Wheel for 50mm diameter filters with mounting tabs  
New filter wheel design allows filters to be easily installed and removed with delrin tabs and spacers.  Tab and spacer kit #17581 is included.  
$225.00

17356  8-position Filter Wheel, for 25.4mm filters with mounting tabs  
New filter wheel design allows filters to be easily installed and removed with delrin tabs and spacers.  Tab and spacer kit #17580 is included.  
$245.00

9-inch Filter Wheels for IFW 3” Filter Selector

17361  5-position Filter Wheel for 58mm Square Filters with mounting tabs  
Wheel design allows for up to 5 filters of 58mm square size to be user installed.  The 58mm square filters are a new standard from Optec.  Wheel can easily be inserted into the filter wheel selector without removing anything from the instrument train.  Tab and spacer kit #17566 is included.  This configuration requires the Rear 3” Cover plate #17367 and the Telescope Adapter for 3” #17368.  
$345.00

17362  6-position Filter Wheel for 50mm Square Filters with mounting tabs  
Wheel design allows for up to 6 filters of 50mm square size to be user installed.  The 50mm square filters are not available from Optec but are commonly available from other astronomical filter suppliers.  Wheel can easily be inserted into the filter wheel selector without removing anything from the instrument train.  Tab and spacer kit #17585 is included.  This configuration requires the Rear 3” Cover plate #17367 and the Telescope Adapter for 3” #17368.  
$345.00

17363  9-position Filter Wheel for 50mm Round Filters with mounting tabs  
Wheel design allows for up to 9 filters of 50mm round size to be user installed.  Optec has a complete selection of 50mm round filters.  Wheel can easily be inserted into the filter wheel selector without removing anything from the instrument train. Two tab and spacer kit #17581 are included.  Order Rear 2” Cover plate #17366 and the Telescope Adapter for 2” #17369 separately.  
$345.00

Tab & Spacer Kits for IFW Filter Wheels

17580  Tab and Spacer Kit for Eight 25.4mm round filters  
Includes: 24 tabs, 8 spacers 0.75mm thk., 8 spacers 1.5mm thk. and 24 stainless 4-40 pan head screws.  
$20.00

17581  Tab and Spacer Kit for Five 50mm round filters  
Includes: 15 tabs, 5 spacers 0.75mm thk., 5 spacers 1.5mm thk. and 15 stainless 4-40 pan head screws.  
$20.00

17584  Tab and Spacer Kit for Five 2-inch round filters  
Includes: 15 tabs, 5 spacers 0.75mm thk., 5 spacers 1.5mm thk. and 15 stainless 4-40 pan head screws.  
$20.00

17585  Tab and Spacer Kit for Six 50mm square filters  
Includes: 24 tabs, 6 spacers 0.75mm thk., 6 spacers 1.5mm thk. and 24 stainless 4-40 pan head screws.  
$20.00

17586  Tab and Spacer Kit for Five 58mm square filters  
Includes: 15 tabs, 5 spacers 0.75mm thk., 5 spacers 1.5mm thk. and 15 stainless 4-40 pan head screws.  
$20.00

17587  Tab and Spacer Kit for Nine 50mm round filters  
$35.00
Includes: 27 tabs, 9 spacers 0.75mm thk., 9 spacers 1.5mm thk. and 27 stainless 4-40 pan head screws.

**MAXfilter 2” 3-Position Filter Slider**

17452 3-position filter slider for 50mm filters.  
Back by popular demand – compatible with the original 3-position MAXfilter system. Tab option not available.  

$95.00

**Optical Bench Mounts for IFW and IFW-3”**

17582 Optical Bench Mount, Metric mounting plate kit.  
17583 Optical Bench Mount, English mounting plate kit.  

$45.00

**Camera Side Mounting Rings for IFW and MAXfilter**

17460 Universal Mounting Ring for MAXfield/WideField or any 2” barrel accessory.  
[OPTEC-2380 male thread // 2-inch female barrel mount]  

$60.00

17461 Mounting Ring for TCF-S focuser or any OPTEC-2400 receiver.  
[OPTEC-2380 male thread // OPTEC-2400 male dovetail]  

$60.00

17462 Mounting Ring for JMI motorized focuser.  

$60.00

17463 Mounting Ring for SBIG ST-1001E CCD camera. (OBSOLETE only a few units left)  

$60.00

17464 Mounting Ring with short SCT (2”x 24tpi) male thread.  
Intended for use with certain Apogee cameras.  

$60.00

17465 Mounting Ring with T-Mount (M42x0.75mm) male thread.  

$60.00

17466 Mounting Ring for C-mount cameras.  

$60.00

17467 Mounting Ring with long SCT (2”x 24tpi) male thread.  
Intended to fit Visual Back accessories.  

$60.00

17468 Mounting Ring with Pentax (M42x1mm) male thread.  

$60.00

17469 Blank OPTEC-2300 receiver Mounting Ring for IFW.  

$45.00

17760 Reverse mounting ring: OPTEC-3000 male dovetail to OPTEC-2380 male thread for IFW.  

$85.00

17761 Reverse mounting ring: 2-inch nosepiece to OPTEC-2380 male thread for IFW.  

$75.00

**IFW 3” Telescope Side Front Cover Plates**

17368 IFW-3” Front Cover Plate to OPTEC-3600 Mount (for 3-inch Telescope Adapters)  
This adapter bolts directly to the IFW-3” telescope side and should be specified for the 5 and 6-position wheels (#17361 and #17362). Accepts the OPTEC-3600 male dovetail telescope mounts listed on page 7.  
[OPTEC-3600 female dovetail // special 4-bolt mount for IFW 3-inch]  

$75.00

17369 IFW-3” Front Cover Plate for OPTEC-2400 Mount (for 2-inch Telescope Adapters)  
This adapter bolts directly to the IFW-3” telescope side and should be specified for the 9-position wheels (#17363). Accepts the OPTEC-2400 male dovetail telescope mounts listed on page 7.  
[OPTEC-2400 female dovetail // special 4-bolt mount for IFW 3-inch]  

$75.00

**IFW 3” Camera Side Rear Cover Plates**

17366 IFW-3” Rear Cover Plate for 2” Accessories – 2-inch clear aperture.  
This adapter bolts directly to the IFW-3” camera (motor) side and can be flipped 180 degrees to center either the 9-position (#17363) or the 5 and 6-position (#17361 and #17362) filter wheels. Accepts the original IFW 2-inch camera side mounting rings.  
[special 4-hole mount for IFW 3-inch // OPTEC-2380 female thread]  

$85.00

17367 IFW-3” Rear Cover Plate for 3” Accessories – 3-inch clear aperture.  
This adapter bolts directly to the IFW-3” camera (motor) side and can be flipped 180 degrees to center either the 9-position (#17363) or the 5 and 6-position (#17361 and #17362) filter wheels. Accepts the 3-inch drawtube adapters listed on page 10.  
[special 4-hole mount for IFW 3-inch // OPTEC-3000 female dovetail]  

$85.00

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Optec
199 Smith Street · Lowell, Michigan 49331 · U.S.A.
Ph: 616-897-9351 · FAX: (616) 897-8229 · Toll Free: 888-488-0381
sales@optecinc.com · www.optecinc.com

All prices subject to change without notice.
ELECTRO-LUMINESCENT FLAT FIELD DEVICES

Field Fielding CCD Calibration Panels from Alnitak AstroSystems

19050  Alnitak Flip-Flat flat fielder and dust cover for 4” to 6” OTA.  $535.00
19051  Alnitak Flip-Flat flat fielder and dust cover for 6” to 7-5/8” OTA.  $525.00
19052  Alnitak Flip-Flat flat fielder and dust cover for OTA up to 8-1/8” diameter.  $575.00
Note: Alnitak Flip-Flat fully illuminated lamp of 6.7” diameter for each model above.
19055  Alnitak Flat-Man flat fielder for OTA up to 7-5/8” diameter.  $350.00
19056  Alnitak Flat-Man flat fielder for OTA up to 8-1/8” diameter.  $375.00
19058  Alnitak Flat-Man L flat fielder for OTA up to 14” diameter.  $595.00
   Alnitak Flat-Man L has a fully illuminated lamp of 13” diameter and is recommended for telescopes with objectives up to 12.5”.
19091  Tripod and wall mounting bracket for Flat-Man L flat fielder.  $65.00
   Includes mountable angle bracket machined to fit the Flat-Man L with ¼-20 thread for most tripods. Black anodized.

Alnitak Bahtinov Mask and Remote Dust Cover

19070  Flip-Mask with Bahtinov mask.  $495.00
   Specify OTA size for Bahtinov mask. Includes motorized arm, mask, USB cable, mounting straps, and control software.
19075  Remote Dust Cover.  $395.00
   Includes lightweight polyprop dust cover, motorized arm, mounting straps, USB cable and control software.
   Some limitations to cover size and telescope orientation may apply. Specify OTA nominal and desired dust cover outer diameter when ordering.

SOFTWARE TOOLS

19676  Optec ASCOM Server  $25.00
   ASCOM Local Server tool for any ASCOM device allowing for multiple client connections to single communication device types.
   License includes one year of free updates to the latest version.
19677  Android App for FocusLynx
   Android phone app for controlling the FocusLynx hub via wired or wireless connections. Free download at the Google App store.
19678  iPhone App for FocusLynx
   iPhone app for controlling the FocusLynx hub via wired or wireless connections. Free download at the Apple Store.
19685  FocusLock Continuous Focus Tool for Off-Axis and On-Axis Guiders.  $100.00
   NEW! FocusLock provides fast telescope auto-focus and maintains continuous focus while guiding using the ONAG or most any off-axis guider. Using the patented SharpLock Technology, FocusLock uses introduced astigmatism on the guide camera to quickly find and maintain best absolute focus regardless of focuser brand or quality. License includes one year of free updates to the latest version.

OFF-AXIS FOCUS DEVICE

19860  Lacerta for Lodestar FOAG  $249.00
   Special tilt-window add-on for the Starlight Xpress Lodestar family of cameras. Works with Lodestar, Lodestar 2, and UltraStar cameras to allow real-time auto-focus using FocusLock software above.
## REPAIR SERVICES AND REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17295</td>
<td>Silica gel desiccant replacement cartridge for SSP Carrying and Storage Cases.</td>
<td>$12.00</td>
</tr>
<tr>
<td>17501</td>
<td>Alignment of SSP detector with reticle.</td>
<td>$35.00</td>
</tr>
<tr>
<td>17503</td>
<td>Replacement of 1mm photodiode, SSP-3.</td>
<td>$100.00</td>
</tr>
<tr>
<td>17505</td>
<td>Replacement of electrometer op-amp, SSP-3.</td>
<td>$90.00</td>
</tr>
<tr>
<td>17507</td>
<td>Cleaning &amp; recoating of detector/electrometer, SSP-3.</td>
<td>$50.00</td>
</tr>
<tr>
<td>17509</td>
<td>Complete detector/electrometer assembly, 1 mm SSP-3.</td>
<td>$255.00</td>
</tr>
<tr>
<td>17511</td>
<td>Repair of SSP digital main board, flat rate.</td>
<td>$95.00</td>
</tr>
<tr>
<td>17513</td>
<td>New SSP digital main board tested and adjusted.</td>
<td>$315.00</td>
</tr>
<tr>
<td>17515</td>
<td>SSP-3/4/5 focusing eyepiece with reticle.</td>
<td>$95.00</td>
</tr>
<tr>
<td>17519</td>
<td>Clean, grease and adjust flip mirror assembly.</td>
<td>$25.00</td>
</tr>
<tr>
<td>17523</td>
<td>SSP-3/3A control board, complete.</td>
<td>$195.00</td>
</tr>
<tr>
<td>17524</td>
<td>SSP-4 control board, complete.</td>
<td>$225.00</td>
</tr>
<tr>
<td>17525</td>
<td>SSP-5/5A control board, complete.</td>
<td>$225.00</td>
</tr>
<tr>
<td>17555</td>
<td>Replacement PMT chamber access port with desiccant, SSP-5.</td>
<td>$55.00</td>
</tr>
<tr>
<td>17556</td>
<td>Repair of SSP-5/5A H/V power supply flat rate.</td>
<td>$105.00</td>
</tr>
<tr>
<td>17557</td>
<td>Replacement gearhead stepper motor for TCF-S focuser, with end cap.</td>
<td>$175.00</td>
</tr>
<tr>
<td>17558</td>
<td>Upgrade temperature probe and socket to 6-pin DIN type.</td>
<td>$75.00</td>
</tr>
<tr>
<td>17560</td>
<td>Replacement temperature probe for TCF/TCF-S/TCF-S3 focuser.</td>
<td>$40.00</td>
</tr>
<tr>
<td>17561</td>
<td>Replace RS232 interface chip, TCF-S focuser, IFW filter wheel, Pyxis rotator or SSP-3/4/5.</td>
<td>$25.00</td>
</tr>
<tr>
<td>17562</td>
<td>Replacement drawtube for TCF-S focuser – include modification of main body if required.</td>
<td>$125.00</td>
</tr>
<tr>
<td>17563</td>
<td>IFW controller board replacement.</td>
<td>$195.00</td>
</tr>
<tr>
<td>17564</td>
<td>IFW hand control box, complete.</td>
<td>$245.00</td>
</tr>
<tr>
<td>17565</td>
<td>TCF-S/TCF-S3 firmware upgrade PIC chip.</td>
<td>$25.00</td>
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<tr>
<td></td>
<td>Current version for TCF-S/TCF-S3 = V2.40</td>
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<tr>
<td></td>
<td>(Rev 1 through Rev 4 boards) = V2.40</td>
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<tr>
<td></td>
<td>Current version for IFW = V2.02</td>
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</tr>
<tr>
<td></td>
<td>Current version for IFW 3” = V3.01</td>
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</tr>
<tr>
<td>17566</td>
<td>Stepper driver PIC chip for TCF-S, IFW, or Pyxis.</td>
<td>$25.00</td>
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<tr>
<td>17567</td>
<td>IFW firmware upgrade PIC chip.</td>
<td>$25.00</td>
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<tr>
<td></td>
<td>Current version for IFW = V2.02</td>
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<td>Current version for IFW 3” = V3.01</td>
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<tr>
<td>17568</td>
<td>TCF-S/TCF-S3 controller board replacement.</td>
<td>$195.00</td>
</tr>
<tr>
<td>17569</td>
<td>TCF-S/TCF-S3 hand control box, complete.</td>
<td>$245.00</td>
</tr>
<tr>
<td>17570</td>
<td>TCF-Si/TCF-S3i control board replacement.</td>
<td>$125.00</td>
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<tr>
<td>17572</td>
<td>PYXIS firmware upgrade PIC chip.</td>
<td>$25.00</td>
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<tr>
<td></td>
<td>Current version for Pyxis = V2.05</td>
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<tr>
<td></td>
<td>Current version for Pyxis 3” = V3.43</td>
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<tr>
<td>17573</td>
<td>PYXIS 3-inch controller board replacement.</td>
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<td>17574</td>
<td>TCF-Lynx motor board replacement.</td>
<td>$75.00</td>
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<td>17575</td>
<td>IFW filter wheel replacement O-ring, 3-pack. (specify IFW or IFW-3)</td>
<td>$15.00</td>
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<tr>
<td>17579</td>
<td>Replacement circuit board for the Pyxis 2-inch</td>
<td>$100.00</td>
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<td>17599</td>
<td>Replacement thermo-foam pad for TCF-S temperature sensor.</td>
<td>$3.00</td>
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<td>19501</td>
<td>Replacement circuit board for Alnitak Flip-Flat.</td>
<td>$165.00</td>
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<td>Replacement circuit board for Alnitak Flat-Man.</td>
<td>$145.00</td>
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<tr>
<td>19503</td>
<td>Replacement circuit board for Alnitak Flat-Man L.</td>
<td>$145.00</td>
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<tr>
<td>19530</td>
<td>Replacement Pyxis LE / HSW circuit board.</td>
<td>$125.00</td>
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<tr>
<td>19532</td>
<td>Replacement Focus Lynx circuit board.</td>
<td>$225.00</td>
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<tr>
<td>94966</td>
<td>Replacement stainless steel thumbscrews, TCF focusers. (specify 2-inch or 3-inch focuser model)</td>
<td>$20.00</td>
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</tbody>
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