

# ASTRONOMICAL INSTRUMENTS PRICE LIST

Effective Date: April 20, 2012

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**COMPLETE EASY-TO-ORDER KITS!**

SSP-3	<b>SSP-3 B-V Photometer Kit.</b> Typical SSP-3 B-V Photometer Kit Includes: #17003, 17050, 17032, 17033, 17155.	<del>\$1,578.00</del> <b>\$1,525.00</b>
SSP-3A	<b>SSP-3A UBVRT Photometer Kit.</b> Typical SSP-3A UBVRT Automated Photometer Kit Includes: #17005, 17052, 17031, 17032, 17033, 17034, 17035, 17036, 17157, 17030.	<del>\$2,397.00</del> <b>\$2,350.00</b>
SSP-4	<b>SSP-4 Infrared Photometer Kit.</b> Typical SSP-4 NIR Photometer Kit includes: #17006, #17050, #17137, #17138, #17155, #17690.	<del>\$3,770.00</del> <b>\$3,750.00</b>
SSP-5	<b>SSP-5 B-V Photometer Kit.</b> Typical SSP-5 Photomultiplier Tube based Photometer kit includes: #17007, #17015, #17050, #17032, #17033, #17155, #17690.	<del>\$2,773.00</del> <b>\$2,725.00</b>
SSP-5A	<b>SSP-5A UBVRT Photometer Kit.</b> Typical SSP-5A UBVRT Automated Photometer Kit Includes: #17009, 17017, 17052, 17031, 17032, 17033, 17034, 17036, 17157, 17690, 17030.	<del>\$4,313.00</del> <b>\$4,250.00</b>
NGM	<b>NextGEN MAXfield 0.33X Telecompressor Kit.</b> Typical NGM MAXfield 0.33X telecompressor configured for the original SBIG ST-7 camera. Kit includes: #17403, 17392-1.43.	<del>\$305.00</del> <b>\$300.00</b>
NGW	<b>NextGEN WideField 0.5X Telecompressor Kit.</b> Typical NGW WideField 0.5X telecompressor configured for the current model SBIG ST-8/9/10 cameras. Kit includes: #17406, 17392-1.38.	<del>\$335.00</del> <b>\$325.00</b>
NGUW	<b>NextGEN UltraWidefield 0.7X Parfocal Telecompressor Kit.</b> Typical NGUW NextGEN UltraWidefield 0.7X telecompressor designed for well-corrected telescopes and the current model SBIG ST-8/9/10/2000 cameras. Kit includes: #17409, #17392-1.38.	<del>\$335.00</del> <b>\$325.00</b>
NGC 316	<b>Next Generation Corrector 3-inch f/7.5 Telecompressor Kit.</b> Typical NGC 316 3-inch Next Generation Corrector f/7.5 telecompressor designed exclusively for classical Schmidt Cassegrain telescopes and SBIG STL cameras. Kit includes: #17480, #17483-2.50 or equivalent.	<del>\$1,345.00</del> <b>\$1,250.00</b>
TCF-S	<b>TCF-S Temperature Compensating Focuser Kit.</b> Typical TCF-S 2" focuser systems designed for the Meade 10"/12"/14" LX200 SCT telescopes, 12-ft cables, 2" to 1 1/4" reducing adapter. Kit includes: #17455, #17670, #17662, #17471, #19672.	<del>\$998.00</del> <b>\$995.00</b>
TCF-Si	<b>TCF-Si Integrated Temperature Compensating Focuser Kit.</b> Kit includes: #17455, #17668, #19672.	<del>\$813.00</del> <b>\$795.00</b>
TCF-S3	<b>TCF-S 3" Temperature Compensating Focuser Kit.</b> Typical TCF-S 3" focuser system designed for the Meade 16" LX200 mount, 12-ft. cables, 3" to 2" reducing adapter. Kit includes: #17801, #17677, #17804, #17471, #19672.	<del>\$2,083.00</del> <b>\$1,995.00</b>
TCF-S3i	<b>TCFS-3i 3" Integrated Temperature Compensating Focuser Kit.</b> Kit includes: #17801, #17676, #17804, #19672.	<del>\$1,830.00</del> <b>\$1,795.00</b>
Pyxis	<b>Pyxis 2-inch Camera Field Rotator Kit.</b> Typical Pyxis 2-inch Camera Field Rotator kit includes: #17645, #17646, #19672.	<del>\$1,049.00</del> <b>\$995.00</b>
Pyxis 3"	<b>Pyxis 3-inch Camera Field Rotator Kit.</b> Typical Pyxis 3-inch Camera Field Rotator kit includes: #17801, #17745, #17806, #19672.	<del>\$2,169.00</del> <b>\$2,150.00</b>



**SINGLE-CHANNEL PHOTOMETERS**

<a href="#">17003</a>	<b>Model SSP-3 Solid State Stellar Photometer, Generation 2.</b> Includes: 1¼" telescope coupler, 1 mm diameter photodiode with 1 mm field aperture mounted, 9V rechargeable battery, 12 VDC power supply/charger for 100-240 VAC, serial data/control I/O, and Install CD with SSPDataq for B V photometry. Order 2-position filter slider, filters and serial cable separately. See ½" Diameter Round Filter selection below for filter options.	\$1,295.00
<a href="#">17005</a>	<b>Model SSP-3A Automated Solid-State Stellar Photometer, Generation 2.</b> Includes: 1¼" telescope coupler, 1 mm diameter photodiode with 1 mm field aperture mounted, filter slider stepper motor, 12 VDC power supply for 100-240 VAC, serial data/control I/O and Install CD with SSPDataq for B V photometry. Order 6-position filter slider, filters and serial cable separately. See ½" Diameter Round Filter selection below for filter options.	\$1,395.00
<a href="#">17006</a>	<b>Model SSP-4 Infrared Stellar Photometer.</b> Includes: 1¼" telescope coupler, 1.0mm infrared InGaAs cooled photodiode detector, 5 VDC power supply (stock #17065) and Install CD with SSP4Dataq. Order 2-position filter slider, J-H filters and serial cable separately. See page 3 for filter selection. This instrument is not available in automatic slider version. Advise Optec of the telescope type to be used with the SSP-4. The focus in the infrared may be different from the visual focus requiring an adjustment of the focusing eyepiece to compensate for this difference. Purchasers of the SSP-4 must indicate the telescope make and type when ordering.	\$2,995.00
<a href="#">17007</a>	<b>Model SSP-5 PMT Stellar Photometer, Generation 2.</b> Includes: 1¼" telescope coupler, 1 mm field aperture, 12 VDC power supply for 100 – 240 VAC and Install CD with SSPDataq for B V photometry. Order PMT, 2-position filter sliders, filters and serial cable separately. See ½" Diameter Round Filter selection below for filter options.	\$2,095.00
<a href="#">17009</a>	<b>Model SSP-5A Automated PMT Stellar Photometer, Generation 2.</b> Includes: 1¼" telescope coupler, 1 mm field aperture, filter slider stepper motor, 12 VDC power supply for 100 – 240 VAC and Install CD with SSPDataq for B V photometry. Order PMT, 6-position filter slider, filters and serial cable separately. See ½" Diameter Round Filter selection below for filter options.	\$2,495.00
<a href="#">17021</a>	<b>Automated Filter Slider Upgrade, SSP-3 to SSP-3A or SSP-5 to SSP-5A.</b> Includes 6-position filter bar.	\$495.00
<a href="#">17025</a>	<b>Automated Flip-mirror Upgrade, SSP-3A or SSP-5A.</b> Includes: motorized flip mirror controlled through SSPDataq2 software, C-mount lens and camera mount. (C-mount camera sold separately.)	\$395.00
<a href="#">17533</a>	<b>Upgrade SSP-3 or 3A instrument to Generation 2.</b>	\$495.00
<a href="#">17535</a>	<b>Upgrade SSP-5 or 5A instrument to Generation 2.</b>	\$595.00

**Detector Aperture Options**

<a href="#">17011</a>	<b>0.5 mm diameter field aperture for SSP-3/3A or SSP-5/5A.</b>	\$65.00
<a href="#">17012</a>	<b>0.75 mm diameter field aperture for SSP-3/3A or SSP-5/5A.</b>	\$65.00
<a href="#">17013</a>	<b>2 mm diameter field aperture for SSP-3/3A (larger detector) or SSP-5/5A.</b>	\$75.00

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

<a href="#">17015</a>	<b>Hamamatsu R6350 Sb-Cs PMT with S-5 response (185 to 650 nm).</b>	\$395.00
<a href="#">17017</a>	<b>Hamamatsu R6358 Multialkali PMT with extended red response (185 to 830 nm).</b>	\$895.00

**Data Acquisition Software**

<a href="#">17030</a>	<b>SSPDataq2 photometer control, data acquisition and data reduction package for UBVRI</b> This software program is an expansion of the freeware SSPDataq available with the SSP 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.	\$295.00
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**Filter Sliders**

<a href="#">17050</a>	<b>2-position filter slider for manual photometers.</b>	\$65.00
<a href="#">17052</a>	<b>6-position filter slider for automatic photometers.</b>	\$195.00

**Battery and Power Supplies**

17060	<b>9 volt Nickel Hydride battery replacement.</b>	\$18.00
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	Replacement battery for SSP-3 photometer.	
17064	<b>12 VDC Universal Power Supply, input range 100-240VAC 50-60Hz, 1.2 Amp output.</b> For use with most Optec devices. Includes 2.5 x 5.5 power plug. Specify U.S. or European wall plug.	\$35.00
17065	<b>5 VDC Power Supply, input range 100-240VAC 50-60Hz, 1.0 Amp output.</b> 5 VDC output for SSP-4 photometer only. Includes 2.2 x 5.5mm power plug. Specify U.S. or European wall plug.	\$35.00
17066	<b>15 VDC Power Supply, 100-240VAC 50-60Hz, 1.5 Amp output.</b> For use with Pyxis 3", 15VDC output includes 2.5 x 5.5mm right angle power plug. Specify U.S. or European wall plug.	\$35.00
17067	<b>6-foot power supply extender cable.</b> Specify 2.5 x 5.5mm female socket to male plug or 2.2 x 5.5mm for SSP-4.	\$20.00

### 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

<a href="#">17154</a>	<b>6-ft. Serial cable for SSP photometers, DB-9 (female /female).</b>	\$20.00
<a href="#">17155</a>	<b>10-ft. Serial cable for SSP photometers, DB-9 (female /female).</b>	\$30.00
<a href="#">17156</a>	<b>15-ft. Serial cable for SSP photometers, DB-9 (female /female).</b>	\$40.00
<a href="#">17157</a>	<b>25-ft. Serial cable for SSP photometers, DB-9 (female /female).</b>	\$50.00

### Photometric Filters for SSP Photometers.

Designed for mounting in 2 or 6 position filter sliders (stk. #17050, #170523)

<a href="#">17027</a>	<b>Sloan g' filter for SSP-3 or SSP-5 photometer.</b>	\$125.00
<a href="#">17028</a>	<b>Sloan r' filter for SSP-3 or SSP-5 photometer.</b>	\$125.00
<a href="#">17029</a>	<b>Sloan i' filter for SSP-3 or SSP-5 photometer with R6358 PMT.</b>	\$125.00
<a href="#">17031</a>	<b>Johnson U (Ultra-Violet) filter for SSP-3 or SSP-5 with R6358 PMT</b>	\$79.00
<a href="#">17032</a>	<b>Johnson B (Blue) filter for SSP-3 or SSP-5 with R6358 or R6350 PMT</b>	\$79.00
<a href="#">17033</a>	<b>Johnson V (Visual) filter for SSP-3 or SSP-5 with R6358 PMT</b>	\$79.00
<a href="#">17034</a>	<b>Johnson R (Red) filter for SSP-3 or SSP-5 with R6358 PMT.</b>	\$79.00
<a href="#">17035</a>	<b>Johnson I (Infrared) filter for SSP-3</b>	\$79.00
<a href="#">17036</a>	<b>Clear filter window for any SSP Photometer</b>	\$35.00
<a href="#">17137</a>	<b>J-band filter, 1.25 <math>\mu\text{m}</math> CW, .28<math>\mu\text{m}</math> BW for SSP-4 infrared photometer.</b>	\$325.00
<a href="#">17138</a>	<b>H-band filter, 1.65 <math>\mu\text{m}</math> CW, .30<math>\mu\text{m}</math> BW for SSP-4 infrared photometer.</b>	\$325.00
<a href="#">17041</a>	<b>Johnson U (Ultra-violet) filter for SSP-5 with R6350 PMT.</b>	\$79.00
<a href="#">17043</a>	<b>Johnson V (Visual) filter for SSP-5 with R6350 PMT.</b>	\$79.00
<a href="#">17045</a>	<b>Strömngren u (ultra-violet) filter for SSP-5 with R6358 or R6350 PMT</b>	\$99.00
<a href="#">17046</a>	<b>Strömngren v (violet) filter for SSP-5 with R6358 or R6350 PMT</b>	\$99.00
<a href="#">17047</a>	<b>Strömngren b (blue) filter for SSP-5 with R6358 or R6350 PMT</b>	\$99.00
<a href="#">17048</a>	<b>Strömngren y (yellow) filter for SSP-5 with R6358 or R6350 PMT</b>	\$99.00
<a href="#">17049</a>	<b>H<math>\beta</math> narrow and wide band filter set with R6358 or R6350 PMT</b> Set of two interference filters used to study the strength of H $\beta$ absorption at 4861Å. The narrow band filter has a halfwidth (FWHM) of 3 nm and the wide band filter has a halfwidth of 15 nm. These two filters must be used together and are often used in conjunction with the Strömngren four-color filter set.	\$179.00

## TELECOMPRESSOR LENS SYSTEMS

### NextGen Series

<a href="#">17403</a>	<b>NextGEN MAXfield NGM 0.33X Telecompressor Lens</b> 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. Now compatible with SBIG'S CFW-8 color wheel. Stk.	\$245.00
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	#17430, violet light rejection filter included. (NOTE: Order NextGEN CCD camera mounting plate separately above.) [2-inch male barrel mount // OPTEC-2100 male dovetail]	
<a href="#">17406</a>	<b>NextGEN WideField NGW 0.5X Telecompressor Lens</b> Second generation WideField telecompressor design with 0.5X reduction. Re-design of Optec's WideField reducer provides improved color correction and longer back-focus. Provides unvignetted field approx. 18mm in diameter. Now compatible with SBIG's CFW-8 color wheel. (NOTE: Order NextGEN CCD camera mounting plate separately below.) [2-inch male barrel mount // OPTEC-2100 male dovetail]	\$275.00
<a href="#">17408</a>	<b>Agos Adapter f/6.3 Focal Reducer kit for Pyxis 2"</b> Special retrofit kit for the Meade, Celestron, and Antares f/6.3 focal reducer lens sets. Allows f/6.3 telecompressor to be used with the TCF-S or any 2-inch focuser and the Pyxis camera field rotator. Can also be used with a variety of camera, filter wheel and adaptive optics unit (AO) combinations. <b>REQUIRES CUSTOMER'S f/6.3 OPTICS.</b> Installation available upon request or "do-it-yourself" kit will be shipped complete with instructions. [2-inch male barrel mount // OPTEC-2100 male dovetail]	\$99.00
<a href="#">17409</a>	<b>NextGEN Ultra WideField 0.70X Telecompressor Lens</b> New 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]	\$275.00
<b>Lepus Telecompressor Series</b>		
<a href="#">19407</a>	<b>Lepus 0.62X Telecompressor Lens</b> New 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. Optimal back focus distance is maintained by new Lepus line of camera mounts. Order Lepus camera mount separately below. Contact Optec for cameras not listed. [2-inch male barrel mount // OPTEC-2100 male dovetail]	\$199.00
<a href="#">19408</a>	<b>Lepus 0.62X Telecompressor Lens – Pyxis edition</b> Special Lepus 0.62X Telecompressor with spacers preset for direct use with the Pyxis 2-inch camera field rotator and SBIG CFW/ST- series cameras. [2-inch male barrel mount // OPTEC-2100 male dovetail]	\$199.00
<a href="#">19409</a>	<b>Lepus HD Telecompressor - C8 EdgeHD edition</b> 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
<a href="#">19410</a>	<b>Lepus HD Telecompressor – C9.25 EdgeHD edition</b> Lepus 0.62X Telecompressor lens system mounted in 3-1/4"x24tpi threaded mount for direct attachment to Celestron 9.25" EdgeHD SCT. Three-piece mount includes lens holder, spacer, 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
<a href="#">19411</a>	<b>Lepus HD Telecompressor – C11 EdgeHD edition</b> Lepus 0.62X Telecompressor lens system mounted in 3-1/4"x24tpi threaded mount for direct attachment to Celestron 1100 EdgeHD SCT. Three-piece mount includes lens holder, spacer, 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
<a href="#">19414</a>	<b>Lepus HD Telecompressor – C14 EdgeHD edition</b> 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  
 Converts an existing 2-inch barrel mount Lepus telecompressor to the Lepus HD telecompressor. User must return existing barrel mount to Optec for removal, cleaning, and installation of the lens set into any one of the EdgeHD edition mounts. Customer's EdgeHD model must be specified. Lepus camera mounts are fully compatible and need not be returned for the conversion. Contact Optec prior to return.

### *NextGEN 3" Series*

[19480](#)      **NGC316 Corrector/Reducer 0.75X Lens – GENERATION 2**      \$995.00  
 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-inch bore focuser such as the TCF-S3 (stk# 17677) or TCF-S3i (stk# 17676).  
 [3-inch male barrel mount // OPTEC-3100 male dovetail]

[19481](#)      **NGC316 Corrector/Reducer upgrade to GENERATION 2**      \$350.00  
 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.

### *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.

[17392-X](#)      **T-thread mounting plate.**      \$60.00  
 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]

[17395-X](#)      **Pentax thread mounting plate.**      \$60.00  
 2" NextGEN Telecompressor to Pentax-thread camera mounting plate. Select best camera mount from Optec website.  
 [OPTEC-2100 female // Pentax 42x 1mm male thread]

[17396-X](#)      **SCT-thread mounting plate.**      \$60.00  
 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]

[17397](#)      **QSI 500wsg mount.**      \$90.00  
 Replacement 4-bolt mount for QSI 500wsg faceplate to allow close mounting of NextGEN series telecompressor. Maintains 50mm back-spacing required for NextGen telecompressor.

[17398-X](#)      **SBIG STL / QSI 2.156"x24tpi threaded mounting plate.**      \$60.00  
 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]

[17399-X](#)      **C-thread mounting plate.**      \$60.00  
 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]

### *NextGEN 3" 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]

[17483-X](#)      **STL Camera mounting plate.**      \$95.00  
 3" NextGEN Telecompressor to SBIG STL camera mounting plate.  
 [OPTEC-3100 female // SBIG STL 4-bolt mount]

[17484-X](#)      **ALTA Camera mounting plate.**      \$95.00  
 3" NextGEN Telecompressor to Apogee ALTA camera mounting plate.  
 [OPTEC-3100 female // Apogee ALTA 8-bolt mount]

[17485-X](#)      **Pentax thread mounting plate.**      \$95.00  
 3" NextGEN Telecompressor to Pentax-thread camera mounting plate. Select best camera mount from Optec website.  
 [OPTEC-3100 female // Pentax 42x 1mm male thread]



<a href="#">17486-X</a>	<b>SCT-thread mounting plate.</b> 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]	\$95.00
<a href="#">17487-X</a>	<b>Digital SLR Bayonet mounting plate.</b> 3" NextGEN Telecompressor to T-thread camera mounting plate with DSLR bayonet. [OPTEC-3100 female // T-threaded bayonet mount]	\$125.00
<a href="#">17488-X</a>	<b>72x1mm threaded mounting plate.</b> 3" NextGEN Telecompressor to 72x1mm threaded camera mounting plate. Select best camera mount from Optec website. [OPTEC-3100 female // 72x1mm thread mount]	\$95.00
<a href="#">17489-X</a>	<b>3.000-24tpi threaded mounting plate.</b> 3" NextGEN Telecompressor to 3x24tpi -threaded camera mounting plate. Select best camera mount from Optec website. [OPTEC-3100 female // 3x24tpi thread mount]	\$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 in millimeters of the tube. For the most current compatibility list, consult the Optec web site: [www.optecinc.com/astronomy/lepus\\_mounts.htm](http://www.optecinc.com/astronomy/lepus_mounts.htm)

<a href="#">19392-X</a>	<b>T-thread mounting plate.</b> 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]	\$60.00
<a href="#">19395-X</a>	<b>Pentax thread mounting plate.</b> 2" NextGEN Telecompressor to Pentax-thread camera mounting plate. Select best camera mount from Optec website. [OPTEC-2100 female // Pentax 42x 1mm male thread]	\$60.00
<a href="#">19396-X</a>	<b>SCT-thread mounting plate.</b> 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]	\$60.00
<a href="#">19397-X</a>	<b>DSLR mounting plate.</b> 2" Lepus Telecompressor to T2 thread with mating T-ring for proper camera fit. Select camera type from Optec website. [OPTEC-2100 female // DSLR camera specific bayonet mount.]	\$95.00
<a href="#">19398-X</a>	<b>SBIG 2.156 x 24tpi threaded mounting plate.</b> 2" NextGEN Telecompressor to SCT-thread camera mounting plate. Select best camera mount from Optec website. [OPTEC-2100 female // SBIG 2.156 X 24tpi male thread]	\$60.00
<a href="#">19399-X</a>	<b>C-thread mounting plate.</b> 2" NextGEN Telecompressor to C-thread camera mounting plate. Select best camera mount from Optec website. [OPTEC-2100 female // C-thread 1-inch 32tpi male thread]	\$60.00



**TELESCOPE ADAPTERS****2-inch Receiver for 2" Telecompressors**

<a href="#">17401</a>	<b>2" SCT Receiver to accept NextGEN Telecompressors.</b> 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]	\$60.00
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**3-inch Receiver for 3" Telecompressors**

<a href="#">17481</a>	<b>3" Receiver Tube to accept NGC 318 f/7.5 Reducer / Corrector.</b> Special 3" I.D. receiver tube to accept NGC318 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 (see price list page 6). [OPTEC-3600 female // 3-inch female barrel mount]	\$95.00
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**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.

<a href="#">17416</a>	<b>Universal OPTEC-2400 mount.</b>	\$63.00
<a href="#">17417</a>	<b>PlaneWave CDK 12.5 mount to OPTEC-2400 dovetail adapter.</b>	\$95.00
<a href="#">17418</a>	<b>PlaneWave CDK 17/20 mount to OPTEC-2400 dovetail adapter.</b>	\$95.00
<a href="#">17451</a>	<b>Takahashi 63mm Sky 90 Mount to OPTEC-2400 dovetail adapter.</b> This mount fits the Takahashi Sky 90 telescope drawtube with TKP35001 coupling removed.	\$84.00
<a href="#">17651</a>	<b>Takahashi 72mm Mount to OPTEC-2400.</b> This mount fits the Takahashi M72x1mm Male thread on certain Mewlon telescopes – see website for details.	\$84.00
<a href="#">17652</a>	<b>TeleVue 3" male threaded mount for NP101 to OPTEC-2400 dovetail adapter.</b>	\$69.00
<a href="#">17453</a>	<b>Takahashi 72mm Mount to OPTEC-2400 dovetail adapter.</b> This mount fits the Takahashi M72x1mm female thread on many Takahashi telescopes – see website for details.	\$84.00
<a href="#">17454</a>	<b>Meade/Celestron Mount for 2" Rear Cell Thread, Meade/Celestron 8", Celestron 9.25" telescopes</b>	\$63.00
<a href="#">17455</a>	<b>Meade Telescope Mount for 3" Rear Cell Thread, Meade 10", 12" and 14" telescopes.</b>	\$63.00
<a href="#">17456</a>	<b>Meade Telescope Mount for 4" Rear Cell Thread, Meade 16" telescopes.</b>	\$95.00
<a href="#">17457</a>	<b>Celestron Telescope Mount for 3" Rear Cell Thread, Celestron C-11/C-14 telescopes.</b>	\$63.00
<a href="#">17458</a>	<b>AstroPhysics 2.7" male threaded mount to OPTEC-2400 dovetail.</b>	\$84.00
<a href="#">17459</a>	<b>2" Barrel Mount (male) to OPTEC-2400 dovetail.</b>	\$63.00
<a href="#">17653</a>	<b>½" Extender for OPTEC-2400 dovetail mounts, female to male.</b>	\$59.00
<a href="#">17655</a>	<b>1" Extender for OPTEC-2400 dovetail mounts, female to male.</b>	\$59.00
<a href="#">17656</a>	<b>Takahashi FS-78 mount, fits the 2.2-inch thread directly to OPTEC-2400 dovetail adapter.</b>	\$63.00
<a href="#">17962</a>	<b>OPTEC-2400 dovetail to Apogee 2.5" X 20tpi threaded mount.</b> This special adapter can be used to adapt the Apogee DO7 body with a male OPTEC-2400 dovetail enabling the IFW to be used with the camera in a reverse direction. This orientation provides a very close fit for the IFW and is usually ordered with the #17760 IFW mounting ring with 3" dovetail mount for the NGC316 3-inch telecompressor.	\$75.00
<a href="#">19650</a>	<b>T-thread receiver to OPTEC-2400 mount.</b> This adapter features a female T-thread (M42x0.75mm) for inserting a male T-thread lens in front of the IFW.	\$45.00
<a href="#">19651</a>	<b>Pentax thread (M42x1mm) receiver to OPTEC-2400 mount.</b>	\$45.00
<a href="#">19652</a>	<b>C-thread receiver to OPTEC-2400 mount.</b> This adapter features a female C-thread for inserting a male C-mount lens in front of the IFW.	\$45.00
<a href="#">19660</a>	<b>FLI PDF 4-inch V-groove to OPTEC-2400 mount.</b>	\$75.00
<a href="#">19661</a>	<b>Vixen VMC260 to OPTEC-2400 mount.</b>	\$63.00
<a href="#">19662</a>	<b>Televue NP101is to OPTEC-2400 mount.</b>	\$63.00



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](mailto:sales@optecinc.com) · [www.optecinc.com](http://www.optecinc.com)

(Additions and Changes highlighted in yellow.)

<a href="#">19663</a>	<b>M90 x 1mm to OPTEC-2400 mount for AT6RC and AT8RC.</b>	\$75.00
<a href="#">19665</a>	<b>M117 x 1mm to OPTEC-2400 mount for AT10RC .</b>	\$95.00
<a href="#">19667</a>	<b>Intes MCT-180/MK-69 to OPTEC-2400 mount.</b>	\$63.00

**OPTEC-2400 Female Dovetail Receiver Adapters**

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

<a href="#">17658</a>	<b>AstroPhysics 2.7" female threaded mount to OPTEC-2400 dovetail.</b>	\$75.00
<a href="#">17659</a>	<b>Standard mountable receiver, OPTEC-2400 female receiver.</b>	\$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.  
(includes the TCF-S3, IFW-3, Pyxis-3", Perseus 4-port instrument selector)

<a href="#">17800</a>	<b>Standard mount blank, OPTEC-3600 male dovetail. Plate can be drilled and machined.</b>	\$95.00
<a href="#">17801</a>	<b>Meade16" LX200 Telescope Mount for 4" Rear Cell Thread to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">17802</a>	<b>Meade Telescope Mount for 3" Rear Cell Thread to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">17803</a>	<b>Celestron Telescope Mount for 3" Rear Cell Thread to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">17808</a>	<b>AstroPhysics 2.7" mount to OPTEC-3600 adapter. IMPROVED! Now only uses 1/10" back focus.</b>	\$95.00
<a href="#">17809</a>	<b>Takahashi 2.8" (72mm) mount to OPTEC-3600 dovetail adapter.</b>	\$95.00
Mounts to FS-102/128/152 with TKP27113 89mm adapter ring, TOA-130/150 with TKP31003 coupling(W) and Mewlon 300.		
<a href="#">17810</a>	<b>AstroPhysics 4.87-inch threaded mount to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">17812</a>	<b>Starlight 3.5 inch focuser model 3545 mount to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">17814</a>	<b>TMB 4.3-inch thread mount to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">17815</a>	<b>AstroPhysics 4.3-inch I.D. mount to OPTEC-3600. IMPROVED! Now only uses 1/10" back focus.</b>	\$95.00
<a href="#">17817</a>	<b>PlaneWave CDK 12.5 mount to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">17818</a>	<b>PlaneWave CDK 17/20 mount to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">17819</a>	<b>Vixen VMC260 telescope mount to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">17820</a>	<b>FLI PDF 4-inch V-groove to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">17821</a>	<b>VSI SideWinder 2.9-inch dovetail mount to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">17822</a>	<b>Ceravolo CDK 5-inch mount to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">17823</a>	<b>RC Optical 4.75" x 24tpi threaded mount to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">17824</a>	<b>Meade RCX 3-inch threaded mount to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">17825</a>	<b>Takahashi 89mm threaded mount to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">17826</a>	<b>PlaneWave 12.5" SecureFit to OPTEC-3600 dovetail adapter.</b>	\$95.00
Designed for use with #17835 3-inch to PlaneWave 12.5" SecureFit adapter and Pyxis 3-inch.		
<a href="#">17827</a>	<b>PlaneWave 12.5" Low Profile to OPTEC-3600 dovetail adapter.</b>	\$95.00
Special low profile adapter bolts directly to Hedrick focuser and consumes zero back-focus.		
<a href="#">17828</a>	<b>PlaneWave 17/20" Low Profile to OPTEC-3600 dovetail adapter.</b>	\$95.00
Special low profile adapter bolts directly to Hedrick focuser and consumes 0.235" of back-focus.		
<a href="#">17829</a>	<b>Meade / Celestron 2" 24tpi thread (SCT thread) to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">19801</a>	<b>M90x1mm thread to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">19802</a>	<b>DSI 3.5x24tpi (male) thread to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">19803</a>	<b>OGS 12.5-inch to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">19804</a>	<b>M117x1mm thread to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">19805</a>	<b>FLI Atlas zero-tilt adapter to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">19806</a>	<b>Takahashi M92x1mm to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">19807</a>	<b>Takahashi M98x1mm to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">19808</a>	<b>Takahashi M114x1mm to OPTEC-3600 dovetail adapter.</b>	\$95.00
<a href="#">19809</a>	<b>Takahashi M125x1mm to OPTEC-3600 dovetail adapter.</b>	\$95.00



**OPTEC-3600 Female Dovetail Receiver Adapters**

These female adapters receive the OPTEC-3600 male dovetail mounts for special situations and conversions.

<a href="#">17858</a>	<b>OPTEC-3600 dovetail to AstroPhysics 2.7" female threaded adapter.</b> Adapts any OPTEC-3600 male dovetail mount to the AstroPhysics 2.7" female thread.	\$95.00
<a href="#">17879</a>	<b>Standard mountable receiver, OPTEC-3600 female receiver.</b> Includes 4 bolt patterns or can be drilled as necessary to adapter many devices to OPTEC-3600 dovetail.	\$75.00

**OPTEC-4300 Dovetail Mount**

New 4.3-inch diameter dovetail mount required for #17689 Limited Back-Focus Edition TCF-S3 focuser. Flush mount adapters allow 3-inch drawtube to pass inside for reduced overall length.

<a href="#">19840</a>	<b>Ceravolo CDK to OPTEC-4300 adapter.</b>	\$95.00
<a href="#">19841</a>	<b>M117x1mm to OPTEC-4300 adapter.</b> Fits AstroTech AT10RC and AT12 RC telescopes with new long-travel TCF-S3 focusers.	\$95.00

**CAMERA SIDE ADAPTERS****2-inch Drawtube Adapters for TCF 2-inch Focusers**

<a href="#">17662</a>	<b>2-inch to 1¼" adapter fits directly into the 2" TCF focuser.</b>	\$45.00
<a href="#">17663</a>	<b>2-inch to 1¼" compression adapter fits directly into the 2" TCF focuser.</b> Includes quick-release locking ring and brass compression ring for 1¼" eyepieces. Non-marring!	\$65.00
<a href="#">17664</a>	<b>2-inch to T-thread adapter fits directly into the 2" TCF focuser.</b> [2-inch male barrel mount // T-thread 42x0.75mm male thread]	\$45.00
<a href="#">17665</a>	<b>2-inch to SCT thread (2" diameter) adapter, fits directly into the 2" TCF focuser.</b> [2-inch male barrel mount // SCT 2" x 24tpi male thread]	\$45.00
<a href="#">17666</a>	<b>2-inch to 3" x 24 tpi male threaded mount.</b> Fits Apogee, SBIG and some FLI 3" x 24tpi camera face threads.	\$95.00

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

<a href="#">17804</a>	<b>3-inch to 2" reducer bushing with removable compression ring.</b> Adapter with three setscrews and brass compression ring allows any 2-inch drawtube adapter to fit the TCF-S3 and Pyxis 3-inch.	\$85.00
<a href="#">17805</a>	<b>3-inch to OPTEC-2400 male dovetail.</b>	\$85.00
<a href="#">17806</a>	<b>3-inch to STL camera mount.</b> This adapter attaches to the 4-bolt pattern on the STL and fits into the TCF-S3 and Pyxis 3-inch.	\$85.00
<a href="#">17807</a>	<b>3-inch to AstroPhysics 2.7" (AP2.7) female thread mount.</b> Fits MMOAG outfitted with male AP2.7 adapter.	\$85.00
<a href="#">17811</a>	<b>3-inch to OPTEC-3600 mount.</b>	\$85.00
<a href="#">17813</a>	<b>3-inch to Starlight Instruments 4.1x24tpi thread mount.</b>	\$85.00
<a href="#">17816</a>	<b>3-inch to 3-inch Extender tube. Extends focus range from 1.0 to 3.1 inches – can be cut to size.</b>	\$65.00
<a href="#">17830</a>	<b>3-inch to Apogee camera face mount, 8-bolt hole pattern.</b>	\$85.00
<a href="#">17831</a>	<b>3-inch to FLI PDF 3-3/4" thread mount.</b>	\$95.00
<a href="#">17832</a>	<b>3-inch to 3.000" 24tpi threaded mount.</b> Fits securely into the standard 3" x 24tpi camera thread as specified by SBIG (STX model), Apogee and other camera manufacturers with a 3"x24tpi thread spec.	\$95.00
<a href="#">17833</a>	<b>3-inch to FLI CFW 3.005" 24tpi threaded mount.</b> Similar to #17832 above except with the non-standard 3.005" x 24tpi thread spec for the FLI CFW.	\$95.00
<a href="#">17834</a>	<b>3-inch to Takahashi 72mm female thread</b>	\$95.00
<a href="#">17835</a>	<b>3-inch to PlaneWave SecureFit CCD Spacer.</b> 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.	\$95.00



<a href="#">17836</a>	<b>3-inch to Meade 3-1/4" SCT thread.</b> Fits the TCF-S3 or Pyxis 3-1/4" and presents the standard Meade 3" rear cell thread for other accessories.	\$95.00
<a href="#">17837</a>	<b>3-inch to Celestron 3-1/4" SCT thread.</b> Fits the TCF-S3 or Pyxis 3" and presents the standard Celestron 3-1/4" rear cell thread for additional accessories	\$95.00
<a href="#">17838</a>	<b>3-inch to AstroPhysics 2.7" male thread.</b>	\$95.00
<a href="#">17839</a>	<b>3-inch to FLI Atlas focuser Zero-Tilt Adapter.</b>	\$95.00
<a href="#">17840</a>	<b>3-inch to Takahashi M98x1mm male thread.</b>	\$95.00

## TELESCOPE FOCUSING SYSTEMS

### TCF Temperature Compensating Focusers

#### 2-inch Crayford Style Focusers

<a href="#">17667</a>	<b>NEW!! Model TCF-L (NC) Temperature Compensating Focuser.</b> 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]	\$595.00
<a href="#">17668</a>	<b>Model TCF-Si, Integrated Temperature Compensating Focuser.</b> Complete 2" TCF-Si focuser with integrated control circuit. Includes TCF-Si focuser, temperature sensor probe with 20" cable, and power supply. Order telescope mount, 9-pin serial port converter (stock #17695) and RJ-12 reverse cable separately. Also available in standard kit packaging (see page 3). [OPTEC-2400 female dovetail // 2-Inch I.D. female receiver]	\$695.00
<a href="#">17670</a>	<b>Model TCF-S, 2" Temperature Compensating Focuser.</b> 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 and power supply. Order telescope mount, control cable and optional adapters separately. For PC computer operation, order 9-pin serial port converter (stock number 17695) and RJ-12 reverse cable separately. Also available in standard kit packaging (see page 3). [OPTEC-2400 female dovetail // 2-Inch I.D. female receiver]	\$795.00
<a href="#">19700</a>	<b>NEW!! TCF-Lynx, 2" Temperature Compensating Focuser with FocusLynx Controller.</b> TCF-Lynx focuser with FocusLynx control system includes 2-inch Crayford style focuser, FocusLynx controller, 20-inch long temperature probe, universal 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 separately. TCP/IP control through Ethernet wired or wireless network is optionally available. [OPTEC-2400 female dovetail //2-inch I.D. female receiver]	\$1,095.00

#### 3-inch Crayford Style Focusers

<a href="#">17676</a>	<b>Model TCF-S3i, 3" Integrated Temperature Compensating Focuser.</b> Complete 3-inch TCF-S3i focuser with integrated control circuit. Includes TCF-S3i focuser, temperature sensor probe with 20" cable, and power supply. Order telescope mount, 9-pin serial port converter (#17695) and RJ-12 reverse cable separately. [OPTEC-3600 female dovetail // 3-Inch I.D. female receiver]	\$1,595.00
<a href="#">17677</a>	<b>Model TCF-S3, 3" Temperature Compensating Focuser.</b> Same as 17670 except the focuser is much more massive and capable of handling instrument loads up to 25 pounds. Recommended for observatory class telescopes with large field diameters. Includes: temperature sensor probe with 20" cable, control box and power supply. Uses same accessories as 17670. Selection of telescope mounts is limited to large sizes only. [OPTEC-3600 female dovetail // 3-Inch I.D. female receiver]	\$1,795.00
<a href="#">19706</a>	<b>NEW!! TCF-Lynx3, 3" Temperature Compensating Focuser with FocusLynx Controller.</b> 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 for FocusLynx to TCF-Lynx3 connection and 6-ft. USB/Serial cable for PC connection. Order OPTEC-3600 Telescope Mount separately. TCP/IP control through Ethernet wired or wireless network is optionally available. [OPTEC-3600 female dovetail //3-inch I.D. female receiver]	\$2,095.00

### Focuser Conversions and Upgrades

<a href="#">17528</a>	<b>Convert classic TCF-S to TCF-Si</b>	\$195.00
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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](mailto:sales@optecinc.com) · [www.optecinc.com](http://www.optecinc.com)

(Additions and Changes highlighted in yellow.)

<a href="#">17529</a>	<b>Convert classic TCF-S3 to TCF-S3i</b>	\$225.00
<a href="#">17661</a>	<b>Custom temperature sensor probe option</b> If the default cable length (20 inches) for the temperature probe is not acceptable, this option allow and length up to 6 feet to be specified.	\$15.00
<a href="#">17720</a>	<b>Upgrade TCF-Si to TCF-S</b>	\$295.00
<a href="#">17721</a>	<b>Upgrade TCF-S3i to TCF-S3</b>	\$295.00
<a href="#">17725</a>	<b>Upgrade classic TCF-S or TCF-Si to TCF-L (NC)</b> 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.	\$175.00
<a href="#">17729</a>	<b>Upgrade classic TCF-S3 or TCF-S3i to TCF-Lynx3</b> Complete upgrade of classic TCF-S3 or TCF-Si to complete TCF-Lynx3 system including FocusLynx Control Hub.	\$595.00

**Remote Focuser Keypad**

<a href="#">17680</a>	<b>Remote IN/OUT Keypad</b> 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. Default cable length is 3 feet.	\$95.00
<a href="#">17681</a>	<b>Custom remote cable length option</b> If the default cable length of 3 feet is not acceptable, this option allows any length up to 6 feet to be specified.	\$15.00
<a href="#">17682</a>	<b>Remote IN/OUT Keypad and Temperature Probe Extension Cable.</b> 6-ft. (2m) extension cable with 6-pin DIN male to female connections.	\$20.00

**Secondary Mirror Focusing Systems for Catadioptrics**

19711	<b>C11 FastFOCUS Secondary Mirror Focusing System</b> Stepper driven secondary focuser system for Celestron C1100 EdgeHD and other Fastar compatible C11 telescopes. Includes Focus Lynx controlling hub (stk# 19690 below). Contact Optec for details.	\$1,195.00
19714	<b>C14 FastFOCUS Secondary Mirror Focusing System</b> Stepper driven secondary focuser system for Celestron C1400 EdgeHD and other Fastar compatible C14 telescopes. Includes Focus Lynx controlling hub (stk# 19690 below). Contact Optec for details.	\$1,195.00

**Telescope Focus Controller Systems**

19690	<b>Focus Lynx multi-focuser Controlling Hub</b> Focus controller capable of controlling two separate stepper driven focusers with Cat5 Ethernet, Wireless 802.11, and serial /USB computer input. Includes one step driver board (#19533 below), universal power supply, and 7-ft. Cat-5e control cable.	\$495.00
19533	<b>Focus Lynx step driver board for second focuser</b> 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.	\$75.00
19535	<b>Focus Lynx 802.11 Wireless board</b> Wireless add-on board for Focus Lynx controller. Factory installation available.	\$149.00
19695	<b>Focus Lynx Hand Control with DRO</b> Provides manual control and position digital read-out. Includes 6-ft. coiled handset cable.	\$249.00

**Focus Lynx Mounting Options**

<a href="#">19691</a>	<b>Universal mounting bracket for Focus Lynx Control Hub</b>	\$35.00
<a href="#">19692</a>	<b>Mounting bracket for Paramount ME Versaplate, Focus Lynx Control Hub</b>	\$50.00

**TIP-TILT ADJUSTING DEVICE**

<a href="#">19380</a>	<b>Equuleus Orthogonal Adjuster.</b> New tip-tilt adjuster to correct non-orthogonality of some CCD cameras and to compensate for mechanical mis-alignments. The Equuleus Orthogonal Adjuster allows up to 1.5-degrees of adjustment to bring any imaging train into perfect orthogonal alignment. Features a full 3-inch clear aperture and three easy to adjust collimation screws with lock nuts and washers. Both telescope and camera sides feature female 3"x24tpi threads for easy attachment to most cameras and imaging trains. See	\$350.00
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Standard 3x24tpi Adapter section above for suitable adapters.

## THREADED SPACERS AND ADAPTERS

### 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 including the new Equuleus Orthogonal Adjusting device (Stk. #19380 below).

<a href="#">17666</a>	<b>2-inch to 3"x 24 tpi male threaded mount.</b> Also listed in the 2-inch Drawtube Adapters section.	\$95.00
<a href="#">17832</a>	<b>3-inch to 3"x 24tpi threaded mount.</b> Also listed in the 3-inch Drawtube Adapters section.	\$95.00
<a href="#">19370</a>	<b>3"x 24tpi Male to Male threaded adapter.</b> Adapter with male to male 3"x24tpi threads to directly attach Apogee or SBIG cameras to Equuleus tip-tilt adapter.	\$95.00
<a href="#">19371</a>	<b>3" x 24tpi Male to T-thread adapter.</b>	\$95.00
<a href="#">19372</a>	<b>3" x 24tpi Male to STL 2.156"x24tpi thread adapter.</b>	\$95.00

### AP 2.7 x 24tpi Threaded Adapters and Extensions

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

<a href="#">19880</a>	<b>AP2.7 x 24tpi Extension Tube Set, 4-piece.</b> Provides 1/4" incremental extensions from 1/2" to 3-1/4" Includes 1/2", 3/4", 1", and 1- 1/2" extensions (#19891 through #19894 below)	\$115.00
<a href="#">19881</a>	<b>AP2.7 x 24tpi Extension Tube Set, 5-piece.</b> Includes 1/2", 3/4", 1", 1- 1/2", and 3" extensions (#19891 through #19895 below)	\$150.00
<a href="#">19882</a>	<b>AP2.7 x 24tpi Extension Tube, 1/2" length.</b>	\$30.00
<a href="#">19883</a>	<b>AP2.7 x 24tpi Extension Tube, 3/4" length.</b>	\$30.00
<a href="#">19884</a>	<b>AP2.7 x 24tpi Extension Tube, 1" length.</b>	\$30.00
<a href="#">19885</a>	<b>AP2.7 x 24tpi Extension Tube, 1-1/2" length.</b>	\$30.00
<a href="#">19886</a>	<b>AP2.7 x 24tpi Extension Tube, 3" length.</b>	\$40.00
19887	<b>AP2.7 x 24tpi male to male thread adapter.</b> Both sides of this adapter present the male AP2.7 thread for connecting two female AP2.7 mounts. Includes one #19888 below.	\$60.00
<a href="#">19888</a>	<b>AP2.7 knurled female threaded retaining ring.</b> Use this locking ring to set the back-focus distances at exactly the distance required. 1/10" thick, Gold anodized.	\$15.00

### DSI 3.5x24tpi Threaded Adapters and Extensions

Deep Sky Instruments standard 3-1/2" x 24tpi threaded adapters and extension tubes. Anti-reflection threaded, ultra-flat black painted and baked interior finish with no internal reflections guaranteed.

*NOW MACHINED FROM SOLID BAR STOCK FOR INCREASED STRENGTH AND RIGIDITY WITH HEAVY CAMERA LOADS.*

<a href="#">19889</a>	<b>DSI 3.5x24tpi Extension Tube Set, 4-piece.</b> Provides 1/4" incremental extensions from 1/2" to 3-1/4" Includes 1/2", 3/4", 1", and 1- 1/2" extensions (#19891 through #19894 below)	\$175.00
<a href="#">19890</a>	<b>DSI 3.5x24tpi Extension Tube Set, 5-piece.</b> Includes 1/2", 3/4", 1", 1- 1/2", and 3" extensions (#19891 through #19895 below)	\$235.00
<a href="#">19891</a>	<b>DSI 3.5x24tpi Extension Tube, 1/2" length.</b>	\$50.00
<a href="#">19892</a>	<b>DSI 3.5x24tpi Extension Tube, 3/4" length.</b>	\$50.00
<a href="#">19893</a>	<b>DSI 3.5x24tpi Extension Tube, 1" length.</b>	\$50.00
<a href="#">19894</a>	<b>DSI 3.5x24tpi Extension Tube, 1-1/2" length.</b>	\$50.00
<a href="#">19895</a>	<b>DSI 3.5x24tpi Extension Tube, 3" length.</b> DSI 3.5x24 adapters are typically mounted male end toward telescope. The 3-inch extension tube is baffled	\$65.00
<a href="#">19896</a>	<b>DSI 3.5x24tpi (male) to AstroPhysics 2.7" female adapter.</b>	\$65.00
<a href="#">19897</a>	<b>DSI 3.5x24tpi knurled female threaded retaining ring.</b> Use this locking ring to set the back-focus distances at exactly the distance required. 1/10" thick, Gold anodized.	\$25.00



<a href="#">19898</a>	<b>M90x1mm female to DSI 3.5x24tpi female thread adapter.</b>	\$65.00
<a href="#">19899</a>	<b>M117x1mm female to DSI 3.5x24tpi female thread adapter.</b> Converts AT10RC and AT12RC rear cell thread to DSI 3.5x24tpi thread spec for stronger spacer sets with improved resolution.	\$65.00
<a href="#">19802</a>	<b>DSI 3.5x24tpi (male) thread to OPTEC-3600 dovetail adapter.</b> [Also listed under Telescope Adapter to OPTEC-3600 mount section]	\$95.00

**Other Adapters and Threaded Extensions**

<a href="#">19790</a>	<b>Hoffman Adapter – Meade 16” SCT to Celestron 3-1/4” thread.</b> Unique adapter allows conversion of Meade 16” SCT thread (4” x 24tpi) to Celestron 11/14 SCT thread (3-1/4” x 24tpi) allowing use of various Celestron large format accessories. Idea suggested by Keith Hoffman of OPT.	\$95.00
<a href="#">19791</a>	<b>CS-mount to C-mount adapter.</b> 5mm long C-thread extension converts CS-mount camera to C-mount back-focus specification.	\$20.00
<a href="#">19849</a>	<b>2-inch Filter Cell adapter.</b> Converter female M48x0.6mm (Celestron and Optec standard) filter threads to M48x0.75mm female thread.	\$20.00
<a href="#">19850</a>	<b>T-thread to SCT thread adapter.</b> Converts a male M42x0.75mm T-thread to a male 2” x 24tpi SCT thread. Can also be used as a male T-thread to T-thread adapter.	\$45.00

**ELECTRO-LUMINESCENT FLAT FIELD DEVICES**

19050	<b>Alnitak Flip-Flat flat fielder and dust cover for 4” to 6” OTA.</b>	\$460.00
19051	<b>Alnitak Flip-Flat flat fielder and dust cover for 6” to 7-5/8” OTA.</b>	\$450.00
19052	<b>Alnitak Flip-Flat flat fielder and dust cover for OTA up to 8-1/8” diameter.</b> Note: Alnitak Flip-Flat fully illuminated lamp of 6.7” diameter for each model above.	\$500.00
19055	<b>Alnitak Flat-Man flat fielder for OTA up to 7-5/8” diameter.</b>	\$299.00
19056	<b>Alnitak Flat-Man flat fielder for OTA up to 8-1/8” diameter.</b>	\$349.00
19058	<b>Alnitak Flat-Man L flat fielder for OTA up to 14” diameter.</b> Alnitak Flat-Man L has a fully illuminated lamp of 13” diameter and is recommended for telescopes with objectives up to 12.5”.	\$549.00
19062	<b>Alnitak Flat-Man XL18 18”x 18” Flat-Fielder EL lamp panel system.</b>	\$1,290.00
19064	<b>Alnitak Flat-Man XL24 24”x 24” Flat-Fielder EL lamp panel system.</b>	\$1,490.00
19065	<b>Alnitak Flat-Man XL30 30”x 30” Flat-Fielder EL lamp panel system.</b>	\$2,200.00
19066	<b>Alnitak Flat-Man XL40 40”x 40” Flat-Fielder EL lamp panel system.</b> Note: Allow 4-6 weeks for delivery of any Flat-Man XL Flat-Fielder system.	\$2,800.00

**PYXIS CAMERA FIELD ROTATORS****Pyxis LE Camera Field Rotator**

<a href="#">19630</a>	<b>Pyxis LE T-mount Camera Field Rotator.</b> 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 M43x1mm T-thread]	\$695.00
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**Pyxis 2-inch Camera Field Rotator**

<a href="#">17645</a>	<b>Pyxis 2-inch I.D. Camera Field Rotator.</b> Pyxis 2-inch camera rotator attaches directly to most CCD camera using one of the mounts listed 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 includes a built-in serial port for remote operations – no external hand control is required. A 12VDC power supply is included. Standard 2-inch nosepiece (stock number 17642) is included but the camera mount must be ordered separately. Order Optec RJ12 Serial to USB cable below separately. A PC connection is required for operation. [2-inch male barrel mount // OPTEC-2300 female dovetail]	\$925.00
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**Pyxis 3-inch Camera Field Rotators**

<a href="#">17745</a>	<b>Pyxis 3-inch I.D. Camera Field Rotator.</b>	\$1,925.00
	Pyxis 3-inch camera rotator is a massive unit for large telescopes and heavy instrument packages. Select appropriate telescope mount from the TELESCOPE MOUNTS FOR TCF-S3 AND PYXIS 3-INCH listing on page 4. For telescopes not listed, contact Optec for custom mounts. The camera side is a standard 3-inch I.D. tube and will accommodate the ADAPTERS FOR TCF-S3 AND PYXIS 3-INCH listed on pages 5 and 6. The Pyxis-3inch includes a built-in serial port for remote operations – no external hand control is required. A 15VDC power supply with right angle power plug is included. Order Optec RJ12 Serial to USB cable below separately. A PC connection is required for operation. [OPTEC-3600 female dovetail // OPTEC-3000 3-inch female dovetail]	

**Pyxis LE Accessories**

<a href="#">19631</a>	<b>Pyxis LE Retainer Kit for f/6.3 SCT telecompressors and other 43mm optics.</b>	\$65.00
<a href="#">19632</a>	<b>7.5mm T-thread Extension Ring.</b>	\$30.00
<a href="#">19633</a>	<b>15mm T-thread Extension Ring.</b>	\$30.00
<a href="#">19634</a>	<b>40mm T-thread Extension Ring.</b>	\$40.00
<a href="#">19636</a>	<b>Canon T2 Bayonet Ring.</b>	\$35.00
<a href="#">19637</a>	<b>Nikon T2 Bayonet Ring.</b>	\$35.00
<a href="#">19638</a>	<b>Olympus T2 Bayonet Ring.</b>	\$35.00
<a href="#">19850</a>	<b>T-thread to SCT-thread Expansion Ring.</b>	\$45.00
	Expands the M42x1mm thread to a male 2"-24tpi thread. Can also be used as male T-thread to male T-thread adapter.	

**Pyxis 2" Accessories**

17639	<b>2"x24tpi SCT thread to Pyxis adapter.</b>	\$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]	
17640	<b>L Mounting Bracket with ½ - 20 thread.</b>	\$25.00
	The L bracket allows the Pyxis to be mounted on a side support or optical bench.	
17641	<b>T-thread to Pyxis adapter.</b>	\$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	<b>Pyxis 2-inch nosepiece replacement.</b>	\$59.00
	The Pyxis is shipped with this adapter to fit any 2-inch ID focusing mount. [2-inch barrel mount // OPTEC-2100 male dovetail]	

**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 on the #17469 IFW OPTEC-2300 Receiver, Pyxis 2", or the #19620 Perseus parfocal receiver.	
<a href="#">17644</a>	<b>Pyxis STL camera mount with OPTEC-2300 male dovetail.</b>	\$59.00
	[OPTEC-2300 male dovetail // SBIG STL 4-bolt hole mount]	
<a href="#">17646</a>	<b>Pyxis T-thread camera mount.</b>	\$59.00
	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]	
<a href="#">17647</a>	<b>Pyxis Pentax camera mount.</b>	\$59.00
	[OPTEC-2300 male dovetail // Pentax M42x1 mm male thread]	
<a href="#">17648</a>	<b>Pyxis SCT short threaded camera mount.</b>	\$59.00
	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]	
<a href="#">17657</a>	<b>Pyxis SCT long threaded mount</b>	\$59.00
	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]	
<a href="#">17649</a>	<b>Pyxis C-thread camera mount.</b>	\$59.00
	[OPTEC-2300 male dovetail // C-mount 1-inch male thread]	



<a href="#">17650</a>	<b>Pyxis STL 2.156" x 24tpi male thread.</b> [OPTEC-2300 male dovetail // SBIG STL / QSI 2.156" x 24tpi male thread]	\$59.00
<a href="#">17643</a>	<b>Pyxis QSI camera mount.</b> [OPTEC-2300 male dovetail // QSI 4-bolt pattern]	\$59.00
<a href="#">17654</a>	<b>Extender tube, 16mm length (OPTEC-2300 male dovetail to OPTEC-2300 female receiver).</b> 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
<a href="#">19647</a>	<b>AstroTech Field Flattener Extender tube,</b> Allows insertion of AstroTech Field Flattener lenses into special extension tube for attaching the field flattener directly behind the Pyxis and maintaining the 55mm required back-focus. Customer supplied optics can be factory mounted.	\$95.00

## MULTIPLE PORT INSTRUMENT SELECTORS

### *Perseus Instrument Selector*

<a href="#">19600</a>	<b>4-Port Instrument Selector with three 2" ports and one 3" port.</b>	\$2,975.00
<a href="#">19610</a>	<b>3-inch Saddle with OPTEC-3600 male dovetail mount.</b>	\$125.00
<a href="#">19611</a>	<b>2-inch Saddle with Blank Cover Plate.</b>	\$75.00
<a href="#">19612</a>	<b>2-inch Saddle with OPTEC-2400 dovetail mount, threaded for Parfocal mount (#19620 below).</b>	\$75.00
<a href="#">19619</a>	<b>Dust cover for OPTEC-3600 dovetail.</b>	\$45.00
<a href="#">19620</a>	<b>Parfocal mount with integral OPTEC-2300 dovetail receiver and retaining ring.</b>	\$75.00



**CABLES AND CONVERTERS*****USB-to-Serial Converters***

<a href="#">17690</a>	<b>USB to Serial Converter 1-Port.</b>	\$30.00
<a href="#">17691</a>	<b>USB to Serial Converter 4-Port.</b>	\$175.00

Provides 4 serial ports from one USB connection.

***PC Serial Port Converter***

<a href="#">17695</a>	<b>PC Serial Port Converter, DB-9 to RJ-12, for TCF-S Focuser.</b>	\$15.00
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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 17675 below.

***PC Serial Cables for TCF, IFW, and Pyxis***

<a href="#">17671</a>	<b>6-foot RJ-12 Reverse Cable for use with #17695 converter above.</b>	\$10.00
<a href="#">17672</a>	<b>12-foot RJ-12 Reverse Cable for use with #17695 converter above.</b>	\$15.00
<a href="#">17673</a>	<b>25-foot RJ-12 Reverse Cable for use with #17695 converter above.</b>	\$25.00
<a href="#">17674</a>	<b>50-foot RJ-12 Reverse Cable for use with #17695 converter above.</b>	\$30.00
<a href="#">17675</a>	<b>Custom length RJ-12 Reverse Cable for use with #17695 converter above, per foot.</b>	\$5 plus \$1.00/ft.

***USB/Serial Cables for TCF, IFW, and Pyxis***

Replaces #17690 USB-to-Serial converter, #17695 PC Serial Port Converter, and #17671 through #17575 PC Serial Cable. Flat 6-wire cable with RJ-12 connector for TCF-S, IFW, or Pyxis to flat USB connector. Uses VCP technology to provide direct USB connection for most Optec devices.

<a href="#">19671</a>	<b>6-foot RJ-12 Serial / USB cable with integrated FTDI USB converter.</b>	\$50.00
<a href="#">19672</a>	<b>12-foot RJ-12 Serial / USB cable with integrated FTDI USB converter.</b>	\$55.00
<a href="#">19673</a>	<b>25-foot RJ-12 Serial / USB cable with integrated FTDI USB converter.</b>	\$60.00
<a href="#">19674</a>	<b>50-foot RJ-12 Serial / USB cable with integrated FTDI USB converter.</b>	\$65.00
<a href="#">19675</a>	<b>Custom length RJ-12 Serial / USB cable with integrated FTDI USB converter.</b>	\$45 plus \$1.00/ft.

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

<a href="#">17470</a>	<b>6-foot Control Cable, Hand Controller to TCF-S/IFW, RJ-45 to DB-9.</b>	\$30.00
<a href="#">17471</a>	<b>12-foot Control Cable, Hand Controller to TCF-S/IFW, RJ-45 to DB-9.</b>	\$40.00
<a href="#">17472</a>	<b>25-foot Control Cable, Hand Controller to TCF-S/IFW, RJ-45 to DB-9.</b>	\$50.00
<a href="#">17473</a>	<b>50-foot Control Cable, Hand Controller to TCF-S/IFW, RJ-45 to DB-9.</b>	\$60.00
<a href="#">17474</a>	<b>Custom length Control Cable, Hand Controller to TCF-S/IFW, priced per foot.</b>	\$20 plus \$1.95/ft.

***Paramount ME Wiring and Mounting Kits***

Other combinations are possible. Contact Optec with your requirements. When ordering, please specify the distance from the Paramount to the computer so that the proper lengths of cables (S1 cable as defined in the manual) can be made. Distances up to 50 feet are available at the prices shown.

<a href="#">17496</a>	<b>Paramount ME Mounting &amp; Wiring kit for IFW or TCF-S &amp; PYXIS</b>	\$200.00
	Specially designed platform and hardware kit for mounting the IFW OR TCF-S control box to the telescope plate of the Software Bisque's Paramount ME. In addition, wiring is provided to connect the PYXIS through the mount. Includes all tools, hardware and wires needed to take advantage of the internal auxiliary ports of the mount. The IFW or TCF-S control box is placed at the telescope with minimal wiring clutter.	
<a href="#">17497</a>	<b>Paramount ME Mounting &amp; Wiring kit for IFW or TCF-S.</b>	\$179.00
	Specially designed platform and hardware kit for mounting the IFW OR TCF-S control box to the telescope plate of Software	



	Bisque's Paramount ME. Includes all tools, hardware and wires needed to take advantage of the internal auxiliary ports of the mount. The IFW or the TCF-S control box is placed at the telescope with minimal wiring clutter.	
<a href="#">17498</a>	<b>Paramount ME Mounting &amp; Wiring kit for PYXIS only.</b>	\$99.00
	Specially designed wiring kit for connecting the PYXIS through the auxiliary port of the Software Bisque's Paramount ME.	
<a href="#">17499</a>	<b>Paramount ME Mounting &amp; Wiring kit for IFW &amp; TCF-S.</b>	\$225.00
	Specially designed platform and hardware kit for mounting the IFW AND TCF-S control boxes to the telescope plate of Software Bisque's Paramount ME. Includes all tools, hardware and wires needed to take advantage of the internal auxiliary ports of the mount. The IFW and the TCF-S control boxes are placed at the telescope with minimal wiring clutter.	
<a href="#">17500</a>	<b>Paramount ME Mounting &amp; Wiring kit for IFW, TCF-S &amp; Pyxis</b>	\$250.00
	Specially designed platform and hardware kit for mounting the IFW AND TCF-S control boxes to the telescope plate of Software Bisque's Paramount ME. Includes all tools, hardware and wires needed to take advantage of the internal auxiliary ports of the mount. The IFW and the TCF-S control boxes are placed at the telescope with minimal wiring clutter. In addition, power and serial communication cables are provide to connect the Pyxis field rotator.	

## CUSTOM EQUATORIAL WEDGE

<a href="#">17995</a>	<b>Ultra-Wedge for the Meade 16" LX-200</b>	\$1,995.00
	Optec designed equatorial wedge using 5/8" aluminum plate. Ultra-Wedge for Meade 16" LX200/R/RXCX400 telescopes, target latitude specified by customer. Ultra-Wedge includes custom base plate fabricated to match customer supplied hole pattern. Installation kit includes all necessary hardware including leveling washers, all stainless fasteners, and required tools. Weighs approximately 110 pounds. Customer to assume responsibility for final installation.	

## LIBRA DOVETAIL MOUNTING SYSTEM

<a href="#">19230</a>	<b>Libra Alt-Azimuth Adjusting Base.</b>	\$495.00
<a href="#">19235</a>	<b>Keller EZ-Saddle.</b>	\$295.00
	Versatile 12-inch long saddle plate for Losmandy D-style dovetail plates. Declination bolt kits available for PlaneWave, Astro-Physics, Losmandy, Mountain Instruments, Celestron, and other Declination axis mounts. Contact Optec for bolt kits not specified below.	
<a href="#">19236</a>	<b>Adapter and Bolt Kit for Celeston CGEM to Keller EZ-Saddle.</b>	\$75.00
<a href="#">19237</a>	<b>Bolt Kit for Celestron CGE Pro to Keller EZ-Saddle.</b>	\$15.00
<a href="#">19238</a>	<b>Bolt Kit for Astro-Physics AP900, Mach1, and SB3622 Plate to EZ-Saddle.</b>	\$15.00
<a href="#">19239</a>	<b>Bolt Kit for Astro-Physics AP1200 to Keller EZ-Saddle.</b>	\$15.00
<a href="#">19240</a>	<b>Bolt Kit for Astro-Physics AT3600 (tandem SB3622 plate) to Keller EZ-Saddle.</b>	\$15.00
<a href="#">19241</a>	<b>Bolt Kit for Mountain Instruments MI-250 to Keller EZ-Saddle.</b>	\$15.00
<a href="#">19242</a>	<b>Bolt Kit for Losmandy G11 to Keller EZ-Saddle.</b>	\$15.00
<a href="#">19243</a>	<b>Adapter Plate and Bolt Kit for Takahashi EM-400 to Keller EZ-Saddle.</b>	\$55.00
<a href="#">19244</a>	<b>Bolt Kit for Software Bisque Paramount VersaPlate (tandem mount) to Keller EZ-Saddle.</b>	\$15.00
<a href="#">19245</a>	<b>Bolt Kit for Planewave Ascension Instruments A200 mount to Keller EZ-Saddle.</b>	\$15.00



**INTELLIGENT FILTER WHEEL SYSTEMS*****IFW Automated Filter Selector Systems***

<a href="#">17350</a>	<b>IFW 2" Intelligent Filter Selector System.</b> Includes IFW filter selector system with integrated stepper motor, intelligent controller box with SBIG CFW-8 emulation and PC serial modes. A 12 VDC power supply included. Order telescope mount, mounting ring, control cable, PC control cable, filter wheels and filters separately. [OPTEC-2400 female dovetail // OPTEC-2380 female thread]	\$829.00
<a href="#">17360</a>	<b>IFW 3" Intelligent 3" Filter Selector System.</b> Includes IFW 3" selector system with integrated stepper motor, intelligent controller box with SBIG CFW-8 emulation and PC serial modes. A 12 VDC power supply included. Order 3" telescope mount, rear camera side adapters, control cable, PC control cable, filter wheels and filters separately. [OPTEC-3600 female dovetail (w/ #17368) // OPTEC-3000 receiver (w/ #17367)]	\$1,295.00

***6-inch Filter Wheels for IFW 2" Filter Selector***

<a href="#">17353</a>	<b>5-position Filter Wheel for 2" diameter filters with mounting tabs</b> 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
<a href="#">17356</a>	<b>5-position Filter Wheel for 50mm diameter filters with mounting tabs</b> New filter wheel design allows filters to be easily installed and removed with delrin tabs and spacers. Tab and spacer kit #17581 is included. – LIMITED STOCK – replace with #17353 above when gone.	\$225.00
<a href="#">17357</a>	<b>8-position Filter Wheel, for 25.4mm filters with mounting tabs</b> 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***

<a href="#">17361</a>	<b>5-position Filter Wheel for 58mm Square Filters with mounting tabs</b> 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 #17586 is included. This configuration requires the Rear 3" Cover plate #17367 and the Telescope Adapter for 3" #17368.	\$345.00
<a href="#">17362</a>	<b>6-position Filter Wheel for 50mm Square Filters with mounting tabs</b> 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
<a href="#">17363</a>	<b>9-position Filter Wheel for 50mm Round Filters with mounting tabs</b> 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. This configuration requires the Rear 2" Cover plate #17366 and the Telescope Adapter for 2" #17369.	\$345.00

***Tab & Spacer Kits for IFW Filter Wheels***

<a href="#">17580</a>	<b>Tab and Spacer Kit for Eight 25.4mm round filters</b> Includes: 24 tabs, 8 spacers 0.75mm thk., 8 spacers 1.5mm thk. and 24 stainless 4-40 pan head screws.	\$20.00
<a href="#">17581</a>	<b>Tab and Spacer Kit for Five 50mm round filters</b> Includes: 15 tabs, 5 spacers 0.75mm thk., 5 spacers 1.5mm thk. and 15 stainless 4-40 pan head screws.	\$20.00
<a href="#">17584</a>	<b>Tab and Spacer Kit for Five 2-inch round filters</b> Includes: 15 tabs, 5 spacers 0.75mm thk., 5 spacers 1.5mm thk. and 15 stainless 4-40 pan head screws.	\$20.00
<a href="#">17585</a>	<b>Tab and Spacer Kit for Six 50mm square filters</b> Includes: 24 tabs, 6 spacers 0.75mm thk., 6 spacers 1.5mm thk., and 24 stainless 4-40 pan head screws.	\$20.00
<a href="#">17586</a>	<b>Tab and Spacer Kit for Five 58mm square filters</b> Includes: 15 tabs, 5 spacers 0.75mm thk., 5 spacers 1.5mm thk. and 15 stainless 4-40 pan head screws.	\$20.00
<a href="#">17587</a>	<b>Tab and Spacer Kit for Nine 50mm round filters</b>	\$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.** \$95.00  
Back by popular demand – compatible with the original 3-position MAXfilter system. Tab option not available.

### **Optical Bench Mounts for IFW and IFW-3"**

[17582](#) **Optical Bench Mount, Metric mounting plate kit.** \$45.00  
[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.** \$59.00  
[OPTEC-2380 male thread // 2-inch female barrel mount]

[17461](#) **TCF Mounting Ring for TCF-S focuser or any OPTEC-2400 receiver.** \$59.00  
[OPTEC-2380 male thread // OPTEC-2400 male dovetail]

[17462](#) **JMI MotoFocus Mounting Ring for JMI NGF-S motorized focuser.** \$59.00  
[17463](#) **ST-1001E Mounting Ring for SBIG ST-1001E CCD camera. (OBSOLETE only a few units left)** \$59.00  
[17464](#) **SCT 2"x24tpi Threaded Mounting Ring with short male thread.** \$59.00  
Intended for use with certain Apogee cameras.

[17465](#) **T-Thread Mounting Ring with 42mm T-thread for direct camera coupling.** \$59.00  
[17466](#) **C-mount Mounting Ring for C-mount cameras.** \$59.00  
[17467](#) **SCT 2"x24tpi Threaded Mounting Ring with male 2" long thread.** \$59.00  
Intended to fit Visual Back accessories.

[17468](#) **Pentax Threaded Mounting Ring for IFW.** \$59.00  
[17469](#) **Blank OPTEC-2300 receiver Mounting Ring for IFW.** \$45.00  
[17760](#) **Reverse mounting ring to OPTEC-3000 dovetail mount** \$59.00

### **IFW 3" Telescope Side Front Cover Plates**

[17368](#) **IFW-3" Front Cover Plate to OPTEC-3600 Mount (for 3-inch Telescope Adapters)** \$59.00  
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]

[17369](#) **IFW-3" Front Cover Plate for OPTEC-2400 Mount (for 2-inch Telescope Adapters)** \$59.00  
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]

### **IFW 3" Camera Side Rear Cover Plates**

[17366](#) **IFW-3" Rear Cover Plate for 2" Accessories – 2-inch clear aperture.** \$59.00  
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]

[17367](#) **IFW-3" Rear Cover Plate for 3" Accessories – 3-inch clear aperture.** \$59.00  
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]

## **OPTICAL FILTERS FOR ASTRONOMY**

All Optec filters are shipped with a custom transmission curve. Wide band filters are measured for transmission in the range of 400 to 1000 nm. The Bessell and Johnson U filters are measured in the range of 350 to 500 nm. Narrow band filters are measured at higher resolution at +/- 50nm from the center wavelength.



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](mailto:sales@optecinc.com) · [www.optecinc.com](http://www.optecinc.com)

(Additions and Changes highlighted in yellow.)

Data is presented in graphical format.

### **Mounted 1-1/4" Filters**

<a href="#">19130</a>	Astrodon UBRcIc filter set, 27mm diameter, 3mm thick, mounted in 1.25" threaded cell.	\$750.00
<a href="#">19131</a>	Astrodon UV photometric filter, 27mm diameter, 3mm thick, mounted in 1.25" threaded cell.	\$150.00
<a href="#">19132</a>	Astrodon B photometric filter, 27mm diameter, 3mm thick, mounted in 1.25" threaded cell.	\$150.00
<a href="#">19133</a>	Astrodon V photometric filter, 27mm diameter, 3mm thick, mounted in 1.25" threaded cell.	\$150.00
<a href="#">19134</a>	Astrodon Rc photometric filter, 27mm diameter, 3mm thick, mounted in 1.25" threaded cell.	\$150.00
<a href="#">19135</a>	Astrodon Ic photometric filter, 27mm diameter, 3mm thick, mounted in 1.25" threaded cell.	\$150.00

### **Mounted 2" Diameter Round Filters**

Glass filters mounted in 48mm metal threaded cell for insertion into 2" eyepiece or NextGEN telecompressors

<a href="#">17430</a>	Violet light rejection filter, mounted in 48mm threaded cell.	\$30.00
<a href="#">17431</a>	#8 Pale Yellow, mounted in 48mm threaded cell.	\$30.00
<a href="#">17432</a>	Premium UV blocking filter with 435nm cutoff, mounted in 48mm threaded cell.	\$35.00
<a href="#">17433</a>	#21 Orange, mounted in 48mm threaded cell.	\$30.00
<a href="#">17435</a>	#23A Light Red, mounted in 48mm threaded cell.	\$30.00
<a href="#">17436</a>	#47B Blue, mounted in 48mm threaded cell.	\$30.00
<a href="#">17437</a>	#29 Deep Red, mounted in 48mm threaded cell.	\$30.00
<a href="#">17438</a>	#58 Light Green, mounted in 48mm threaded cell.	\$30.00
<a href="#">17439</a>	#80A Medium Blue, mounted in 48mm threaded cell.	\$30.00
<a href="#">17440</a>	IR Blocking Filter, mounted in 48mm threaded cell.	\$95.00
<a href="#">17266</a>	Optec Deep Sky Filter, mounted in 48mm threaded cell.	\$75.00

### **Unmounted 50mm Diameter Round Filters**

2mm thick filters are the lightest available with high transmissions and excellent parfocality.

<a href="#">17229</a>	Violet rejection filter, 2.0±0.4mm thick.	\$30.00
<a href="#">17230</a>	Clear window, 2.0±0.4mm thick.	\$30.00
<a href="#">17231</a>	#8 Pale Yellow, 2.0±0.4mm thick.	\$30.00
<a href="#">17232</a>	#12 Yellow, 2.0±0.4mm thick.	\$30.00
<a href="#">17233</a>	#21 Orange, 2.0±0.4mm thick.	\$30.00
<a href="#">17235</a>	#23A Light Red, 2.0±0.4mm thick.	\$30.00
<a href="#">17236</a>	#47B Blue, 2.0±0.4mm thick.	\$30.00
<a href="#">17237</a>	#29 Deep Red, 2.0±0.4mm thick.	\$30.00
<a href="#">17238</a>	#58 Light Green, 2.0±0.4mm thick.	\$30.00
<a href="#">17239</a>	#80A Medium Blue, 2.0±0.4mm thick.	\$30.00
<a href="#">17240</a>	ND 0.6 (25% T), Neutral Density 25% transmission, 2.0±0.4mm thick.	\$30.00
<a href="#">17241</a>	Dichroic Luminance filter w/IR-Blocking for LRGB Imaging, Multilayer AR, 2.0±0.1mm thick	\$125.00
<a href="#">17246</a>	Dichroic RED-IR filter for RGB Imaging, Multilayer AR coating, 2.0±0.1mm thick.	\$135.00
<a href="#">17247</a>	Dichroic GREEN-IR filter for RGB Imaging, Multilayer AR coating, 2.0±0.1mm thick.	\$135.00
<a href="#">17248</a>	Dichroic BLUE-IR filter for RGB Imaging, Multilayer AR coating, 2.0±0.1mm thick.	\$135.00
<a href="#">17445</a>	Optec LRGB-IR Imaging Filter Set, includes 17246, 17247, 17248 & 17241.	\$495.00
<a href="#">17260</a>	H-Alpha filter, 656.3 nm CW, 8±1.5 nm BW, Transmission > 85%, 2.0±0.1 mm thick.	\$295.00
	Astrodon filters are 3mm thick and parfocal. Coated filters matching or exceeding the original Johnson/Cousins specifications.	
<a href="#">19125</a>	Astrodon "I"-series LRGB filter set, 50mm diameter x 3mm thick.	\$825.00

### **Photometric Filters**



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Ph: 616-897-9351 · FAX: (616) 897-8229 · Toll Free: 888-488-0381

[sales@optecinc.com](mailto:sales@optecinc.com) · [www.optecinc.com](http://www.optecinc.com)

(Additions and Changes highlighted in yellow.)

<a href="#">19430</a>	Astrodon UBRcIc filter set, 50mm diameter, 3mm thick.	\$1,600.00
<a href="#">19431</a>	Astrodon UV photometric filter, 50mm diameter, 3mm thick.	\$320.00
<a href="#">19432</a>	Astrodon B photometric filter, 50mm diameter, 3mm thick.	\$320.00
<a href="#">19433</a>	Astrodon V photometric filter, 50mm diameter, 3mm thick.	\$320.00
<a href="#">19434</a>	Astrodon Rc photometric filter, 50mm diameter, 3mm thick.	\$320.00
<a href="#">19435</a>	Astrodon Ic photometric filter, 50mm diameter, 3mm thick.	\$320.00
<a href="#">19436</a>	Astrodon Clear filter with UV blocking, 50mm dia., 2mm thick.	\$225.00

*Classic Bessell Filters*

<a href="#">17250</a>	Bessell specification U filter for photometry, Multilayer A/R coated, 5mm thick.	\$315.00
<a href="#">17446</a>	Bessell specification B filter for photometry, Multilayer A/R coated, 5mm thick.	\$315.00
<a href="#">17447</a>	Bessell specification V filter for photometry, Multilayer A/R coated, 5mm thick.	\$315.00
<a href="#">17448</a>	Bessell specification R filter for photometry, Multilayer A/R coated, 5mm thick.	\$315.00
<a href="#">17449</a>	Bessell specification I filter for photometry, Multilayer A/R coated, 5mm thick.	\$315.00
<a href="#">17450</a>	Bessell UBURI filter set, 50mm diameter, 5mm thick. Made to the original Bessell specification from Schott and Hoya glass filters.	\$1,495.00
<a href="#">17251</a>	Precision Clear filter for use with Bessell set, Multilayer A/R coated, 5.0±0.1mm thick.	\$125.00
<a href="#">17267</a>	Optec Deep Sky filter, mounted in 50mm bushing (46mm clear aperture), 4.0±0.1mm thick.	\$85.00

*Unmounted 50 x 50mm Square Filters*

<a href="#">19440</a>	Astrodon "E" Series LRGB filter set, 50mm x 50mm, 3mm thick.	\$1,200.00
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*Photometric Filters*

<a href="#">19444</a>	Astrodon Photometric UBVRcIc filter set, 50x50mm square, 3mm thick.	\$1,800.00
<a href="#">19445</a>	Astrodon Photometric U filter, 50mm x 50mm, 3mm thick.	\$360.00
<a href="#">19446</a>	Astrodon Photometric B filter, 50mm x 50mm, 3mm thick.	\$360.00
<a href="#">19447</a>	Astrodon Photometric V filter, 50mm x 50mm, 3mm thick.	\$360.00
<a href="#">19448</a>	Astrodon Photometric Rc filter, 50mm x 50mm, 3mm thick.	\$360.00
<a href="#">19449</a>	Astrodon Photometric Ic filter, 50mm x 50mm, 3mm thick.	\$360.00
<a href="#">19450</a>	Clear filter with UV block, 50mm x 50mm, 3mm thick.	\$275.00

*Narrow-Band Filters*

<a href="#">19452</a>	H-alpha 3nm filter, 50mm x 50mm, 3mm thick.	\$1,055.00
<a href="#">19453</a>	H-alpha 5nm filter, 50mm x 50mm, 3mm thick.	\$695.00
<a href="#">19454</a>	OIII 3nm filter, 50mm x 50mm, 3mm thick.	\$1,055.00
<a href="#">19455</a>	OIII 5nm filter, 50mm x 50mm, 3mm thick.	\$695.00
<a href="#">19456</a>	SII 3nm filter, 50mm x 50mm, 3mm thick.	\$1,055.00
<a href="#">19457</a>	SII 5nm filter, 50mm x 50mm, 3mm thick.	\$695.00

*Unmounted 58 x 58mm Square Filters*

<a href="#">17270</a>	Dichroic RED-IR filter for RGB Imaging, Multilayer AR coating, 2.0±0.1mm thick.	\$295.00
<a href="#">17271</a>	Dichroic GREEN-IR filter for RGB Imaging, Multilayer AR coating, 2.0±0.1mm thick.	\$295.00
<a href="#">17272</a>	Dichroic BLUE-IR filter for RGB Imaging, Multilayer AR coating, 2.0±0.1mm thick.	\$295.00
<a href="#">17273</a>	Dichroic Luminance filter w/IR-Blocking for LRGB Imaging, Multilayer AR, 2.0±0.1mm thick	\$295.00
<a href="#">17274</a>	Optec LRGB-IR Imaging Filter Set, includes #17270, 17271, 17272, 17273.	\$1,095.00
<a href="#">17275</a>	H-Alpha filter, 656.3 nm CW, 8±1.5 nm BW, Transmission > 85%, 2.0±0.1 mm thick.	\$595.00

*Mounted 72mm Round Filter*

<a href="#">19471</a>	<b>IDAS LPS filter in 72mm threaded cell.</b>	\$309.00
<b>Custom Optical Services</b>		
<a href="#">17998</a>	<b>Mount customer supplied filter into any wheel or threaded cell.</b>	\$10.00
<a href="#">17999</a>	<b>Custom transmission curve for customer supplied, 350nm to 1000nm.</b>	\$45.00

## BOOKS, MANUALS, AND PUBLICATIONS

All Optec product technical manuals are available for download in pdf format from our website at no charge. Visit [www.optecinc.com](http://www.optecinc.com).

<a href="#">17325</a>	<b>Photoelectric Photometry of Variable Stars</b> , 2 <sup>nd</sup> Ed. by D.S. Hall and R.M. Genet. Topics include: Automatic Photoelectric Telescopes, Photoelectric Observatories, Data Reduction, Achieving Maximum Accuracy, Observing Program Selection, and much more. <i>Limited stock – available while supplies last.</i>	\$20.00
<a href="#">17330</a>	<b>Astronomical Photometry.</b> By Arne Henden and Ronald Kaitchuck. Original authoritative text on single channel photometry and photometric techniques. Includes full discussion of reduction methods and calculations. All-sky and differential photometry described in full.	\$30.00
<a href="#">17335</a>	<b>CCD Astronomy.</b> by Cristian Buil. Extremely thorough discussion of astronomical CCD cameras including tips and techniques for both constructing and using CCD cameras. Topics include operating CCD and image processing algorithms. <i>Limited stock – available while supplies last.</i>	\$20.00
<a href="#">17339</a>	<b>TCF-S Technical Manual, printed and bound</b> Complete description of the TCF-S temperature compensating focuser with serial interface protocol, circuit diagrams, and theory of operation.	\$10.00
<a href="#">17340</a>	<b>SSP-3 Generation 2 Technical Manual, printed and bound</b> Contains complete description of the SSP-3 photometer, Johnson and Wing filters, SSP-3A option, and accessories. Many diagrams and tables.	\$10.00
<a href="#">17344</a>	<b>SSP-4 Technical Manual, printed and bound</b> Contains complete description of the theory and operation of the SSP-4 infrared photometer including circuit diagrams and detector details.	\$10.00
<a href="#">17345</a>	<b>SSP-5 Generation 2 Technical Manual, printed and bound</b> Contains complete description of the SSP-5 photometer, Johnson and Strömngren filters, SSP-5A option, and accessories. Many diagrams and tables.	\$10.00
<a href="#">17347</a>	<b>Pyxis Camera Field Rotator Technical Manual, printed and bound</b> Contains complete description of the Pyxis camera field rotator.	\$10.00
<a href="#">17349</a>	<b>IFW Intelligent Filter Wheel Technical Manual, printed and bound</b> Complete description of the IFW automatic filter selector system including serial interface and circuit diagrams.	\$10.00



**REPAIR SERVICES AND REPLACEMENT PARTS**

17295	Silica gel desiccant replacement cartridge for SSP Carrying and Storage Cases.		\$12.00
17501	Alignment of SSP detector with reticle.		\$35.00
17503	Replacement of 1mm photodiode, SSP-3.		\$100.00
17505	Replacement of electrometer op-amp, SSP-3.		\$90.00
17507	Cleaning & recoating of detector/electrometer, SSP-3.		\$50.00
17509	Complete detector/electrometer assembly, 1 mm SSP-3.		\$255.00
17511	Repair of SSP digital main board, flat rate.		\$95.00
17513	New SSP digital main board tested and adjusted.		\$315.00
17515	SSP-3/4/5 focusing eyepiece with reticle.		\$95.00
17519	Clean, grease and adjust flip mirror assembly.		\$25.00
17523	SSP-3/3A control board, complete.		\$195.00
17524	SSP-4 control board, complete.		\$225.00
17525	SSP-5/5A control board, complete.		\$225.00
17550	SAA1027 Stepper Driver Chip.		\$16.00
17555	Replacement PMT chamber access port with desiccant, SSP-5.		\$55.00
17556	Repair of SSP-5/5A H/V power supply flat rate.		\$105.00
17557	Replacement gearhead stepper motor for TCF-S focuser, with end cap.		\$175.00
17558	Upgrade temperature probe and socket to 6-pin DIN type.		\$75.00
17560	Replacement temperature probe for TCF/TCF-S/TCF-S3 focuser.		\$33.00
17561	Replace RS232 interface chip, TCF-S focuser, IFW filter wheel, Pyxis rotator or SSP-3/4/5.		\$25.00
17562	Replacement drawtube for TCF-S focuser – include modification of main body if required.		\$125.00
17563	IFW controller board replacement.		\$195.00
17564	IFW hand control box, complete.		\$245.00
17565	TCF-S/TCF-S3 firmware upgrade PIC chip.	<i>Current version for TCF-S/TCF-S3 (Rev 1 through Rev4 boards) = V2.40 ( New!!! Rev 5 board) = V4.11 Current version for TCF-Si/TCF-S3i = V3.11</i>	\$25.00
17566	Stepper driver PIC chip for TCF-S, IFW, or Pyxis.		\$25.00
17567	IFW firmware upgrade PIC chip.	<i>Current version for IFW = V2.02 Current version for IFW 3" = V3.01</i>	\$25.00
17568	TCF-S/TCF-S3 controller board replacement.		\$195.00
17569	TCF-S/TCF-S3 hand control box, complete.		\$245.00
17570	TCF-Si/TCF-S3i control board replacement.		\$125.00
17572	PYXIS firmware upgrade PIC chip.	<i>Current version for Pyxis = V2.04 Current version for Pyxis 3" = V3.42</i>	\$25.00
17573	PYXIS 3-inch controller board replacement.		\$135.00
17574	TCF-Lynx motor board replacement.		\$75.00
17575	IFW filter wheel replacement O-ring, 3-pack. (specify IFW or IFW-3)		\$15.00
17579	Replacement circuit board for the Pyxis 2-inch		\$100.00
19501	Replacement circuit board for Alnitak Flip-Flat.		\$165.00
19502	Replacement circuit board for Alnitak Flat-Man.		\$145.00
19503	Replacement circuit board for Alnitak Flat-Man L.		\$145.00
19530	Replacement Pyxis LE / HSFW circuit board.		\$125.00
19532	Replacement Focus Lynx circuit board.		\$375.00

