ASTRONOMICAL PHOTOMETRY AND CCD CAMERA ACCESSORIES PRICE LIST

Effective Date: November 29, 2005

SINGLE-CHANNEL PHOTOMETERS

17003	Model SSP-3 Solid State Stellar Photometer, <i>Generation 2</i> . Includes: 1 ¹ / ₄ " telescope coupler, 1 mm diameter photodiode with 1 mm field aperture mounted, 9 V rechargeable battery, 12 VDC power supply/charger for 100-240 VAC, serial data/control I/O, and Install CD. <i>Order 2-position filter slider, filters and serial cable separately</i> .	\$1,095.00
17005	Model SSP-3A Automated Solid-State Stellar Photometer, Generation 2. Includes: 1 ¹ / ₄ " 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. Order 6-position filter slider, filters and serial cable separately	\$1,495.00
17533	Upgrade SSP-3 or 3A instrument to Generation 2. (no discount)	\$395.00
17006	Model SSP-4 Infrared Stellar Photometer. Includes: 1¼" telescope coupler, 0.3mm infrared InGaAs cooled photodiode detector, 5 VDC power supply (stock #17065) and Install CD. Order 2-position filter slider, J-H filters and serial cable separately. (Not available in automatic slider version.)	\$2,195.00
17007	Model SSP-5 PMT Stellar Photometer, Generation 2. Includes: 1 ¹ / ₄ " telescope coupler, 1 mm field aperture, 12 VDC power supply for 100 – 240 VAC and Install CD. Order PMT, 2-position filter sliders, filters and serial cable separately.	\$1,795.00
17009	Model SSP-5A Automated PMT Stellar Photometer, Generation 2. Includes: 1 ¹ / ₄ " telescope coupler, 1 mm field aperture, filter slider stepper motor, 12 VDC power supply for 100 – 240 VAC and Install CD. Order PMT, 6-position filter slider, filters and serial cable separately.	\$2,195.00
17535	Upgrade SSP-5 or 5A instrument to Generation 2 (no discount)	\$495.00
DETECT	TOR APERTURE OPTIONS (factory installed only.)	
17011	0.5 mm diameter field aperture for SSP-3/3A or SSP-5/5A.	\$65.00
17012	0.75 mm diameter field aperture for SSP-3/3A or SSP-5/5A.	\$65.00
17013	2 mm diameter field aperture for SSP-3/3A (larger detector) or SSP-5/5A.	\$75.00
PHOTO	MULTIPLIER TUBE & InGaAs DETECTOR OPTIONS (for SSP-4/ SSP-5/SSP-5A photometers)	
17014	1 mm infrared InGaAs photodiode detector option for SSP-4.	CALL
17015	Hamamatsu R6350 Sb-Cs PMT with S-5 response (185 to 650 nm).	\$300.00
17017	Hamamatsu R6358 Multialkali PMT with extended red response (185 to 830 nm).	\$625.00
FILTER	SLIDERS	
17050	2-position filter slider for manual photometers.	\$50.00
17052	6-position filter slider for automatic photometers.	\$185.00



Rev. 11/29//2005 Page 2 of 11

BATTERIES AND POWER SUPPLIES

17060	9 volt Nickel Hydride battery replacement.	\$12.00	
17064	12 VDC Universal Power Supply, input range 90-264V AC, 12-watt output.	\$25.00	
	For use with most Optec devices including TCF-S, IFW, SSP-3, SSP-5 and PYXIS.		
17065	5 VDC Power Supply, input range 100-120V AC input, 15-watt output. Use with SSP-4 only.	\$25.00	
17067	9-foot power supply extender cable.	\$12.00	
SERIAL	CABLES FOR SSP PHOTOMETERS		
	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 F/F.	\$20.00	
17155	10-ft. Serial cable for SSP photometers, DB-9 F/F.	\$25.00	
17156	15-ft. Serial cable for SSP photometers, DB-9 F/F.	\$35.00	
17157	25-ft. Serial cable for SSP photometers, DB-9 F/F.	\$45.00	
CARRYING & STORAGE CASES			
17200	SSP-3 or SSP-4 Carrying & Storage Case.	\$125.00	
17205	SSP-5 Carrying & Storage Case.	\$125.00	
17210	SSP-3A Carrying & Storage Case.	\$125.00	
17215	SSP-5A Carrying & Storage Case.	\$125.00	



Rev. 11/29//2005 Page 3 of 11

NovtCFN	CCD CAMERA MOUNTING PLATES	
NEXIGEN	The most popular mounts are shown below. Consult our web site under mounting plates for NextGEN	
	telecompressors to see and find stock numbers for all available camera mounts. Make sure the tube	
	length dimension is included with the description when ordering. These mounting plates accommodate	
	the 52 mm back focus distance of the NextGEN MAXfield and NextGEN WideField telecompressors.	
17392	-1.47 tube length, NextGEN mounting plate for SBIG ST-7/8/9/10/2000	\$50.00
17392	-0.72 tube length, NextGEN mounting plate for SBIG ST-7/8/9/10/200 with CFW-8 filter wheel	\$50.00
17395	-1.67 tube length, NextGEN mounting plate for Starlight Xpress MX and HX series	\$50.00
17396	-1.30 tube length, NextGEN mounting plate for FLI MaxCam with SCT thread	\$50.00
17399	-1.69 tube length, NextGEN mounting plate for standard C-Mount cameras.	\$50.00
	NOTE: Starlight Xpress SXV-M25 cannot be used with the NextGen telecompressor systems	
	NOTE: Mounting plates are available for most T, SCT, Pentax and C thread cameras.	
TELECO	MPRESSOR LENS SYSTEMS	
17401	2" Receiver fits 2" SCT threads to fit NextGEN directly to telescope	\$50.00
17403	NextGEN MAXfield 0.33X Telecompressor Lens	\$195.00
17105	Second generation MAXfield telecompressor design with 0.33X reduction. Complete redesign of Optec's premier	7-7-7-7-7
	f/3.3 reducer provides better color correction and a longer back-focus distance. Now compatible with SBIG'S	
	CFW-8 color wheel. Stk. #17430, violet light rejection filter included. (NOTE: Order NextGEN CCD camera mounting plate separately above.)	
17406	NextGEN WideField 0.5X Telecompressor Lens	\$235.00
17 100	Second generation WideField telecompressor design with 0.5X reduction. Re-design of Optec's WideField	φ 2 00.00
	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.	
17408	(NOTE: Order NextGEN CCD camera mounting plate separately above.) WideField-FLI 0.5X Telecompressor Lens	\$95.00
17400	Special version of the original WideField f/5 telecompressor designed to fit directly into the FLI camera faceplate	Ψ23.00
	using a 2" 24tpi thread. (For use with FLI cameras only – separate camera mount is not required.)	
17409	NextGEN Ultra WideField 0.62X Telecompressor Lens	\$395.00
	New parfocal 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 an extremely flat field up to 18mm diagonal for CCD detectors. (Order CCD Camera mounting plate separately below.)	
17370	APUS 0.36X SCT webcam telecompressor for Schmidt-Cassegrains.	\$165.00
17374	APUS 2.5X SCT webcam tele-extender for Schmidt-Cassegrains.	\$165.00
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CCD CAN	MERA/TELECOMPRESSOR MOUNTING PLATES	
	Designed for use with NextGEN 0.62X Ultra WideField. Telecompressors.and the discontinued	
	original MAXfield (0.33X) and WideField (0.50X). These mounting plates accommodate the 29 mm	
17410	back focus. Mounting plate and handware bit for SDIC ST 6 comore	\$50.00
17410	Mounting plate and hardware kit for SBIG ST-6 camera. Mounting plate and hardware kit for SBIG ST-6B camera.	\$50.00
17412	Mounting plate and hardware kit for SBIG ST-4 or ST-5 cameras.	\$145.00
17413	Mounting plate and hardware kit for Meade Pictor 216XT camera.	\$50.00
17414	Mounting plate and hardware kit for Meade Pictor 416XT camera.	\$50.00
17419	Mounting plate and hardware kit for SBIG STV, ST-237, & ST-5C cameras.	\$50.00
17422	Mounting plate and hardware kit for SBIG ST-x cameras including ST-7/8/9/10/2000	\$50.00
17424	Mounting plate and hardware kit for Starlight Xpress camera.	\$50.00
17425	Mounting plate and hardware kit for Starlight Xpress MX5, MX-7, MX916 & HX5 cameras.	\$50.00
17426	Mounting plate and hardware kit for Starlight Xpress SXV-H9 T-thread camera.	\$50.00
17429	Mounting plate and hardware kit for C-mount camera.	\$50.00



Rev. 11/29//2005 Page 4 of 11

TELESC	OPE MOUNTS FOR IFW & TCF-S FOCUSER These telescope mounts fit the IFW Filter Wheel and TCF-S Focuser.	
17451	Takahashi 2.5" mount, fits the Takahashi Sky 90 telescope drawtube with TKP35001 coupling removed	\$75.00
17651	Takahashi 2.8" (72mm) male mount, fits the Takahashi Mewlon 210 and 250.	\$75.00
17652	TeleVue 3" telescope mount, fits the NP101 male thread.	\$55.00
17453	Takahashi 2.8" (72mm) female mount, fits most Takahashi telescopes including:	
	FS-102/128, FS-152 with TKP27113 89mm adapter ring, TOA-130/150 with TRP31003 coupling(W) and Mewlon 300.	\$75.00
17454	Meade/Celestron Mount for 2" Rear Cell Thread, Meade/Celestron 8", Celestron 9.25" telescopes	\$55.00
17455	Meade Telescope Mount for 3" Rear Cell Thread, Meade 10" and 12" telescopes.	\$55.00
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.	\$55.00
17458	AstroPhysics 2.7" mount, fits all AP telescopes with 2.7" adapter.	\$75.00
17459	2" Barrel Mount (male) for any 2" focuser, approx. 2" barrel length.	\$55.00
17653	Spacer to allow 0.5-inch increase in length for telescope mounts.	\$50.00
17656	Takahashi FS-78 mount, fits the 2.2-inch thread directly.	\$50.00
TELESC	OPE MOUNTS FOR TCF-S3	
17801	Meade Telescope Mount for 4" Rear Cell Thread, TCF-S3	\$85.00
17802	Meade Telescope Mount for 3" Rear Cell Thread, TCF-S3	\$85.00
17803	Celestron Telescope Mount for 3" Rear Cell Thread, TCF-S3	\$85.00
AUTOM	ATED FILTER SELECTOR SYSTEMS	
17350	IFW Filter Wheel – Automatic 2" Filter Selector System. Includes IFW filter selector system with integrated stepper motor, intelligent hand controller with SBIG CFW-8 emulation and PC serial modes. 12 VDC power supply included. Order telescope mount, mounting ring, control cable, PC control cable, filter wheels and filters separately.	\$725.00
FILTER	WHEELS	
17352	5-position Filter Wheel, 2" diameter filters.	\$195.00
17355	5-position filter wheel can be easily inserted into and removed from the IFW Filter Wheel system. Specially designed for oversized 2" filters (50.4mm diameter). Orders with Optec filters should specify #17355 below. 5-position Filter Wheel, 50mm diameter filters. 5-position filter wheel can be easily inserted into and removed from the IFW Filter Wheel system. Order 50mm	\$195.00
17250	diameter filters separately for factory mounting into the wheel. Multiple 5-position filter wheels can accommodate up to 25 filters.	¢225.00
17358	8-position Filter Wheel, 25.4mm filters. New 8-position filter wheel for 1" filters. 25.4mm diameter round filters should be factory mounted into this wheel. New IFW firmware allows use with older IFW systems. Contact Optec for additional details.	\$225.00
17359	IFW Filter Wheel Carrying & Storage Case. Case is made from solid hardwood and can hold up to four wheels.	\$125.00



Rev. 11/29//2005 Page 5 of 11

MOUNTING RINGS FOR IFW & MAXFILTER

17460 17461 17462 17463 17464 17465	Universal Mounting Ring for MAXfield/WideField or any 2" barrel accessory. TCF Mounting Ring for TCF Temperature Compensating Focuser (stk. no. 17670) below. JMI MotoFocus Mounting Ring for JMI NGF-S motorized focuser. ST-1001E Mounting Ring for SBIG ST-1001E CCD camera SCT Threaded Mounting Ring with male SCT 2" thread for other accessories. T-Thread Mounting Ring with 42mm T-thread for direct camera coupling.	\$50.00 \$50.00 \$50.00 \$95.00 \$50.00
17466	C-mount Mounting Ring for C-mount cameras.	\$50.00
SBIG CA	MERA CABLES FOR IFW	
	Cables designed especially for use with SBIG camera when using the IFW in CFW8 emulation mode.	
17475	18-inch, SBIG Cable, ST-x CCD Camera to Hand Controller w/ pickoff female RJ-11.	\$15.00
17476	6-foot Cable, SBIG Cable, ST-x CCD Camera to Hand Controller w/ pickoff female RJ-11.	\$25.00
17477	12-foot Cable, SBIG Cable, ST-x CCD Camera to Hand Controller w/ pickoff female RJ-11.	\$30.00
17478	25- foot Cable, SBIG Cable, ST-x CCD Camera to Hand Controller w/ pickoff female RJ-11.	\$35.00
17479	50- foot Cable, SBIG Cable, ST-x CCD Camera to Hand Controller w/ pickoff female RJ-11.	\$40.00
ТЕМРЕН	RATURE COMPENSATING FOCUSER SYSTEM	
17670	Model TCF-S, 2-inch I.D. Temperature Compensating Focuser, Serial Version with RS-232 I/O. 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. See http://optecinc.com/optec_056.htm for a complete list of accessories.	\$725.00
17677	Model TCF-S3, 3-inch I.D. Temperature Compensating Focuser, Serial Version with RS-232 I/O. 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.	\$1725.00
17661	Custom temperature sensor probe up to 6-ft. length. Substitutes for standard 20" cable supplied with stk. #17670 and #17677 above.	\$10.00
TCF-S an	d TCF-S3 REMOTE KEYPAD	
17680	Remote IN/OUT Keypad Metal hand paddle with IN and OUT pushbuttons. Plugs into temperature probe connector on the focuser and allows for direct manual energiation of the instrument. Connection is hot sweeppelle. Default cable length is 3 feet.	\$129.00
17681	allows for direct manual operation of the instrument. Connection is hot swappable. Default cable length is 3 feet. Custom remote cable length If the default cable length of 3 feet is not acceptable, this option allows any length up to 6 feet to be specified.	\$10.00
ADAPTE	RS FOR TCF-S FOCUSER	



\$50.00

\$50.00

\$50.00

\$75.00

2" to 11/4" adapter, fits directly into the 2" TCF focuser.

2" to T-thread adapter, fits directly into the 2" TCF focuser.

2" to SCT thread (2" diameter) adapter, fits directly into the 2" TCF focuser.

3" to 2" reducer bushing, allows the adapters above to fit the TCF-S3

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Rev. 11/29//2005 Page 6 of 11

USB to SERIAL CONVERTERS

15.00	TIOD : G ANG AD .	#20.00
17690	USB to Serial Converter 1-Port.	\$29.00
15.01	We have found the above converter to be the most compatible with our instruments.	¢177.00
17691	USB to Serial Converter 4-Port.	\$175.00
	Provides 4 serial ports from one USB connection. Control TCF-S, IFW, Pyxis and SSP photometer from one USB.	
PC SERI	AL CABLES & CONVERTERS FOR TCF-S, TCF-S3, IFW and PYXIS	
17695	PC Serial Port Converter, DB-9 to RJ-12, for TCF-S Focuser.	\$15.00
	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.	
17671	6-foot RJ-12 Reverse Cable for use with #17695 converter above.	\$12.00
17671	12-foot RJ-12 Reverse Cable for use with #17695 converter above.	\$15.00
17672	25-foot RJ-12 Reverse Cable for use with #17695 converter above.	\$25.00
17674	50-foot RJ-12 Reverse Cable for use with #17695 converter above.	\$35.00
17675	Custom length RJ-12 Reverse Cable for use with #17695 converter above, per foot.	\$5 plus
17075	Custom length Ro 12 Reverse Cubic for use with #17000 converted ubove, per 1000	\$1.50/ft.
CONTRO	OL CABLES FOR IFW, TCF-S and TCF-S3	
17470	6-foot Control Cable, Hand Controller to TCF-S/IFW, RJ-45 to DB-9.	\$25.00
17471	12-foot Control Cable, Hand Controller to TCF-S/IFW, RJ-45 to DB-9.	\$35.00
17472	25-foot Control Cable, Hand Controller to TCF-S/IFW, RJ-45 to DB-9.	\$45.00
17473	50-foot Control Cable, Hand Controller to TCF-S/IFW, RJ-45 to DB-9.	\$55.00
17474	Custom length Control Cable, Hand Controller to TCF-S/IFW, priced per foot.	\$20 plus \$1.50/ft.
PYXIS C	AMERA FIELD ROTATOR	
17645	Pyxis Camera Field Rotator.	\$895.00
270.0	Pyxis 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 includes a built-in serial port for remote operations – no external hand control is required. 12VDC power supply is included. Standard 2-inch nosepiece (stock number 17642) is included but the camera mount must be ordered separately. Order serial port converter (stock number 17695) and reverse cable (stock numbers 17671 to 17675) separately. (<i>PC connection is required for operation.</i>)	
PYXIS A	DAPTERS	

17640	L Mounting Bracket with $\frac{1}{2}$ - 20 thread.	\$25.00
	The L bracket allows the Pyxis to be mounted on a side support or optical bench.	
17642	Pyxis 2-inch nosepiece replacement.	\$50.00
	The Pyxis is shipped with this adapter to fit any 2-inch ID focusing mount.	
17644	Pyxis STL camera mount.	\$50.00
17646	Pyxis T-thread camera mount.	\$50.00
	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

Rev. 11/29//2005 Page 7 of 11

17647	Pyxis Pentax camera mount.	\$50.00
17648	Pyxis SCT threaded camera mount.	\$50.00
17649	Pyxis C-thread camera mount.	\$50.00
17650	T-thread to Nikon adapter	\$20.00
17654	Extender tube, 16mm.	\$35.00

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-8/10 filter wheel from SBIG to be used, this adapter must be added to the T-thread camera mount stock number 17646.

SPECIAL WIRING AND MOUNTING KITS

17499 Paramount ME Mounting & Wiring kit for IFW & TCF-S.

\$195.00

Specially designed mounting platforms and hardware kit for mounting the IFW and TCF-S hand controllers 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 TCF-S hand controls are placed at the telescope with minimal wiring clutter, a must-have accessory for all Paramount ME owners.

CUSTOM EQUATORIAL WEDGE

17995 Ultra-Wedge for the Meade 16" LX-200

\$3,500.00

Optec designed equatorial wedge using 5/8" aluminum plate. Ultra-Wedge for Meade 16" SCT telescope, 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 100 pounds. Customer to assume responsibility for final installation.

MANUAL FOCUS KNOB & CONVERSIONS

17659 BFK, Big Focus Knob.

\$45.00

Oversized knob for manual focus knob of Meade and Celestron SCT telescopes. BFK slips over existing aluminum knob (will not fit new Celestron rubberized knobs) and fastens with three setscrews. Provides fine manual control of focus. Highly Recommended!

17655 Meade 16" Focus Mechanism Replacement

\$195.00

Conversion kit for stock Meade focus mechanism includes pressure bearings and ½" stainless steel precision threaded shaft. Full instructions for installation. Includes BFK above.



Rev. 11/29//2005 Page 8 of 11

1/2" DIAMETER ROUND FILTERS for SSP Photometers

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

17031	Johnson U (Ultra-Violet) filter for SSP-3 or SSP-5 with R6358 PMT	\$75.00
17032	Johnson B (Blue) filter for SSP-3 or SSP-5 with R6358 or R6350 PMT	\$75.00
17033	Johnson V (Visual) filter for SSP-3 or SSP-5 with R6358 PMT	\$75.00
17034	Johnson R (Red) filter for SSP-3 or SSP-5 with R6358 PMT.	\$75.00
17035	Johnson I (Infrared) filter for SSP-3	\$75.00
17036	Clear filter window for any SSP	\$30.00
17137	J-band filter, 1.25 μm CW, .28μm BW for SSP-4 infrared photometer.	\$300.00
17138	H-band filter, 1.65 μm CW, .30μm BW for SSP-4 infrared photometer.	\$300.00
17041	Johnson U (Ultra-violet) filter for SSP-5 with R6350 PMT.	\$75.00
17043	Johnson V (Visual) filter for SSP-5 with R6350 PMT.	\$75.00
17045	Strömgren u (ultra-violet) filter for SSP-5 with R6358 or R6350 PMT	\$95.00
17046	Strömgren v (violet) filter for SSP-5 with R6358 or R6350 PMT	\$95.00
17047	Strömgren b (blue) filter for SSP-5 with R6358 or R6350 PMT	\$95.00
17048	Strömgren y (yellow) filter for SSP-5 with R6358 or R6350 PMT	\$95.00
17049	Hß narrow and wide band filter set with R6358 or R6350 PMT Set of two interference filters used to study the strength of Hß 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 Strömgren four-color filter set.	\$95.00

1" DIAMETER ROUND FILTERS, MOUNTED.

These filters are mounted in $1^{1}/4^{\circ}$ metal threaded cell for use with many screw-in type filter wheels (SBIG CFW), eyepieces, or any adapter that accepts $1^{1}/4^{\circ}$ filter cells. Filters are broadband coated and made to the highest standards for imaging in the standard colors. A custom transmission curve is supplied with each filter.

17131	Bessell U filter, 25.4mm diameter, 5mm thick	\$125.00
17132	Bessell B filter, 25.4mm diameter, 5mm thick	\$125.00
17133	Bessel V filter, 25.4mm diameter, 5mm thick	\$125.00
17134	Bessell R filter, 25.4mm diameter, 5mm thick	\$125.00
17135	Bessell I filter, 25.4mm diameter, 5mm thick	\$125.00
17136	Clear filter, 25.4mm diameter, 5mm thick	\$55.00



Rev. 11/29//2005 Page 9 of 11

MOUN	TED 2" DIAMETER ROUND FILTERS	
15.100	Glass filters mounted in 48mm metal threaded cell for insertion into 2"eyepiece or NextGEN telecompress	
17430	Violet light rejection filter, mounted in 48mm threaded cell.	\$40.00
17431	#8 Pale Yellow, mounted in 48mm threaded cell.	\$40.00
17432	Premium UV blocking filter with 435nm cutoff, mounted in 48mm threaded cell.	\$55.00
17433	#21 Orange, mounted in 48mm threaded cell.	\$40.00
17435	#23A Light Red, mounted in 48mm threaded cell.	\$40.00
17436	#47B Blue, mounted in 48mm threaded cell.	\$40.00
17437	#29 Deep Red, mounted in 48mm threaded cell.	\$40.00
17438	#58 Light Green, mounted in 48mm threaded cell.	\$40.00
17439	#80A Medium Blue, mounted in 48mm threaded cell.	\$40.00
17440	IR Blocking Filter, mounted in 48mm threaded cell.	\$95.00
17266	Optec Deep Sky Filter, mounted in 48mm threaded cell.	\$95.00
50 mm 1	DIAMETER ROUND FILTERS for IFW Filter Wheels - unmounted	
	50mm diameter filters designed for factory installation into our 5-position IFW filter wheel.	
17229	Violet rejection filter, 2mm thick.	\$40.00
17230	Clear window, 2mm thick.	\$40.00
17231	#8 Pale Yellow, 2mm thick.	\$40.00
17232	#12 Yellow, 2mm thick.	\$40.00
17233	#21 Orange, 2mm thick.	\$40.00
17235	#23A Light Red, 2mm thick.	\$40.00
17236	#47B Blue, 2mm thick.	\$40.00
17237	#29 Deep Red, 2mm thick.	\$40.00
17238	#58 Light Green, 2mm thick.	\$40.00
17239	#80A Medium Blue, 2mm thick.	\$40.00
17240	ND 0.6 (25% T), Neutral Density 25% transmission, 2mm thick.	\$40.00
17246	Dichroic RED-IR filter for Tri-Color (RGB) Imaging, 2mm thick.	\$125.00
17247	Dichroic GREEN-IR filter, Tri-Color (RGB) Imaging, 2mm thick.	\$125.00
17248	Dichroic BLUE-IR filter for Tri-Color (RGB) Imaging, 2mm thick.	\$125.00
17445	Optec RGB-IR Tri-Color (RGB) Imaging Filter Set, includes 17246, 17247 & 17248	\$295.00
17241	Luminance filter with IR-Blocking for LRGB Imaging, 2mm thick	\$95.00
17251	Precision Clear filter for use with Bessell set, 5mm thick, A/R coated.	\$85.00
17250	Bessell specification U filter for photometry, 5mm thick.	\$295.00
17446	Bessell specification B filter for photometry, 5mm thick.	\$295.00
17447	Bessell specification V filter for photometry, 5mm thick.	\$250.00
17448	Bessell specification R filter for photometry, 5mm thick.	\$250.00
17449	Bessell specification I filter for photometry, 5mm thick.	\$200.00
17267	Optec Deep Sky filter, mounted in 50mm bushing (46mm clear aperture), 4mm thick.	\$95.00
CUSTO	M OPTICAL SERVICES	
17999	Custom transmission curve, 360nm to 1000nm. (No charge for filters priced \$100 & up.)	\$20.00
17299	Custom mount user-supplied 50mm (nominal) filter into IFW 5-position wheel.	\$10.00



Rev. 11/29//2005 Page 10 of 11

BOOKS, MANUALS, AND PUBLICATIONS

Optec product manual available on-line in pdf format for no charge.

17325	Photoelectric Photometry of Variable Stars, 2 nd Ed. (no dealer discount)	\$26.95
	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.	
17330	Astronomical Photometry, 2 nd edition. (no dealer discount)	\$29.95
1,000	by A. Henden and R. Kaitchuck. The classic text and handbook written for advanced amateurs and professionals. Covers equipment, photometric systems, statistics, observational techniques, data reduction and much more. Hardbound.	·
17335	CCD Astronomy. (no dealer discount)	\$26.95
	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.	
17339	TCF-S Technical Manual, printed and bound	\$10.00
	Complete description of the TCF-S temperature compensating focuser with serial interface protocol, circuit diagrams, and theory of operation.	
17340	SSP-3 Generation 2 Technical Manual, printed and bound	\$10.00
	Contains complete description of the SSP-3 photometer, Johnson and Wing filters, SSP-3A option, and accessories. Many diagrams and tables.	
17344	SSP-4 Technical Manual, printed and bound	\$10.00
	Contains complete description of the theory and operation of the SSP-4 infrared photometer including circuit diagrams and detector details.	
17345	SSP-5 Generation 2 Technical Manual, printed and bound	\$10.00
	Contains complete description of the SSP-5 photometer, Johnson and Strömgren filters, SSP-5A option, and accessories. Many diagrams and tables.	
17347	Pyxis Camera Field Rotator Technical Manual, printed and bound	\$10.00
	Contains complete description of the Pyxis camera field rotator.	
17349	IFW Intelligent Filter Wheel Technical Manual, printed and bound	\$10.00
	Complete description of the IFW automatic filter selector system including serial interface and circuit diagrams.	



Rev. 11/29//2005 Page 11 of 11

REPAIR SERVICES AND REPLACEMENT PARTS

17295	Silica gel desiccator replacement cartridge for SSP Carrying and Storage Cases.	\$12.00
17501	Alignment of SSP detector with reticle.	\$25.00
17503	Replacement of 1mm photodiode, SSP-3.	\$100.00
17505	Replacement of electrometer op-amp, SSP-3.	\$40.00
17507	Cleaning & recoating of detector/electrometer, SSP-3.	\$50.00
17509	Complete detector/electrometer assembly, 1 mm SSP-3.	\$195.00
17511	Repair of SSP digital main board, flat rate.	\$95.00
17513	New SSP digital main board tested and adjusted.	\$295.00
17515	SSP-3/4/5 focusing eyepiece with reticle.	\$75.00
17519	Clean, grease and adjust flip mirror assembly.	\$15.00
17533	Upgrade SSP-3/3A to Generation 2.	\$395.00
17535	Upgrade SSP-5/5A to Generation 2.	\$495.00
17555	Replacement PMT chamber access port with desiccant, SSP-5.	\$45.00
17556	Repair of SSP-5/5A H/V power supply flat rate.	\$95.00
17558	Upgrade temperature probe and socket to 6-pin DIN type.	\$75.00
17560	Replacement temperature probe for TCF/TCF-S/TCF-S3 focuser.	\$25.00
17561	Replace RS232 interface chip, TCF-S focuser, IFW filter wheel, Pyxis rotator or SSP-3/4/5.	\$20.00
17562	Replacement drawtube for TCF/TCF-S focuser.	\$95.00
17563	IFW controller board replacement.	\$150.00
17564	IFW hand control box, complete.	\$195.00
17565	TCF-S/TCF-S3 firmware upgrade PIC chip, contact Optec for current version.	\$20.00
17567	IFW firmware upgrade PIC chip, contact Optec for current version.	\$20.00
17568	TCF-S/TCF-S3 controller board replacement.	\$150.00
17569	TCF-S/TCF-S3 hand control box, complete.	\$195.00
17572	PYXIS firmware upgrade PIC chip, contact Optec for current version	\$20.00
17575	IFW filter wheel replacement O-ring, 3-pack.	\$10.00
17577	12 VDC power supply for SSP-3/SSP-5/TCF-S/IFW/Pyxis	\$25.00
17578	5 VDC power supply for SSP-4	\$29.00

WARRANTY AND RETURN POLICY

We warranty all Optec products to be free from defects in workmanship and material for one year from date of delivery. We will replace or repair at our option any item, should it be defective during this period, providing there is no evidence of misuse. Warranty items must be returned to us freight prepaid. Repaired items will be returned via UPS ground within the continental USA at our expense. Overnight shipping services may be arranged in advance at the customer's expense. Contact Optec before returning any instruments for repair and to arrange for return shipping.

If not completely satisfied, return the merchandise with freight prepaid within 30 days from date of invoice and the full purchase price will be refunded. Shipping charges will not be refunded. Any damage to the product will be charged against the refund amount.

