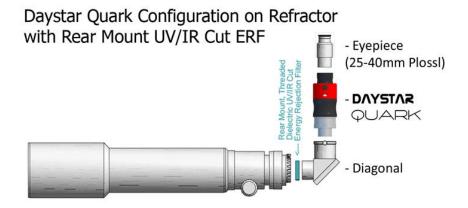
DAYSTAR FILTERS QUARK

Congratulations on your purcha se of a Quark Hydrog en Alpha "Eyepiece" solar filter. Please read this manual before using the product.

To use the filter, plug in the included power supply, then place the Quark after your telescope's diagonal and insert an eyepiece or camera in the rear of the filter. Turn the knob to point straight away from the light. When the light turns green in about 5-10 minutes your viewing experience can begin.

To prevent damage, we recommend using an Energy Rejection Filter on telescopes of 80mm aperture or more, or when tracking the Sun for long periods. This can be a UV/IR cut filter mounted before the diagonal, or a full aperture red or yellow glass ERF mounted in front of the telescope.



Warnings:

Do not disassemble the filter, the blocking element is separated from the etalon and the complete ssembly must be used together for safe viewing.

Do not power the filter from a computer or cell phone charger as the Quark requires a high current power supply (> 1.5A) for operation.

For assistance:

Call: 1 (866) 680-6563

Email: servi ce@daystarfilters.com

Visit: http://www.da ystarfilters.com

Cautions & Warnings:

There are no use rise rviceable pairts inside the Quark. Do not diassemble the unit. Certain components are under piressure and disassembly can cause permanent damage. All elements are required for proper operation and removal of any internal component will cause a malfunction that could result in unfiltered light which can cause blindness or damage to equipment.

Solar Observing with a telescope is sensitive to certain risks.

- Caution and care of the telescop e and filter is advised in assembly, use and dismantling at all times.
- Telescope owners must use caution when affixing the filter to the telescope ne ver to point any telescope at the sun without the solar filter safely installed first.
- While ob serving, owners must take care and ca ution that all parts of the filter and telescope a ssembly are pro perly affixed and th at no pie ces h ave be en opened, tam pered with or removed.
- Owners must also use caution when the telescope is being assembled and dismantled to assure the telescope is never pointing at the sun without the solar filter properly installed.
- Responsible owners will be prud ent to inform guest or novice observers of the special nature of the telescope configuration so not to imply that telescopi c observing of the sun is safe without proper filtration.

A few very important points that owners and operators must understand:

- DayStar filters are rear-mounted and can be applied to a choice of telescopes if applie d p roperly. If app lication i s incorrect, the filter will not perform as specified.
- DayStar Filters a re interferen ce filters. If light reaches a
 DayStar Filter at an angle, it will cause wavelength
 wingshift. For our application on a telescope, DayStar owners
 need F/1 5 to F/30 light, so we need to alter you r telescope's
 F/ratio in order to reach F/15 to F/30 where your DayStar will
 operate correctly. Best performance is at F/27-F/32.
- DayStar filters are temperature sensitive. Changi ng the temperature will change the wavelength (CWL) that the filter will transmit. Users need to be aware of temperature tuning issues.

USAGE:

The Quark is designed for use on F/4 to F/9 refractors. Combined with an integrated 4.3x telecentric barlow, this results in a F/17 to F/38 final image respectively, to provide the best performance from your filter.

Because of the incl uded barlo w, ima ges will a ppear 4x larg er than without the Quark, and ample additional backfocus is available.

The filter mu st be plu gged in usi ng the supplied power supply. The etalon cavity is precision heated to regulate the wavelength of the filter output.

Any other USB power source you wish to use must be rated for at least 1.5 amps at 5 volts. Co mputer USB ports and cell phone chargers do not normally support this much power.

After letting the filter come up to temperature and settle, the light will turn green and viewing can begin.

Knob tuning:

If the imag e la cks contrast, you may nee d t o adj ust the ce nter wavelength of the filter.

A knob is provided to adjust the center wavelength of the filter. Turn the knob counter clockwise to lower the wavelength towards the blue by up to 0.5Å. Turn clockwise to raise the wavelength towards the red by up to 0.5Å. Each click of the knob is 0.1Å.

Tuning is required on telescopes with "droop" of the focuser, because even very slight tilts will effectively lower the center wavelength of the filter. Turn the knob clockwise 2-3 clicks and wait 5-10 minutes to see if the view is improved.

Additional tuning can be performed, just keep in mind that after every adjustment of the knob the filter must settle in tempera ture for approximately 5-10 minutes before your change becomes effective.

Tuning can also be used to observe Doppler shifted features moving towards or away from you. A feature moving towards you will be brighter in blue (counterclockwise) wing shift, away from you will be reddened (clockwise knob tuning).

Energy Rejection:

Concentrated sunlight can create ve ry high tem peratures where it falls, so care must be taken to prevent melted components or fire.

For brief observing sessions with less than 80mm of aperture when not using a tracking mount, it can be OK to use no energy rejection at all. Be alert for any rise in temperature of your telescope, diagonal, or Quark.

For tele scopes un der approximately 120mm of aperture, a scre w in UV /IR cut filter can be employed in front of the telescope diagonal. The UV/IR cut filter reflects UV and IR light back out the front of the telescope, reducing temperatures inside. Do not use a UV/IR cut filter with oil spaced o bjective tele scopes, or any telescope



with an integrated rear field flattener or Petzval lens. The UV/IR cut filter must be the first optical element to receive concentrated light.

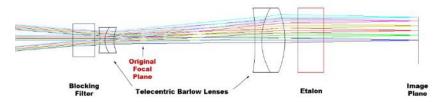
For b est pe rformance, a red o r yellow gla ss front mount Energy Rejection Fil ter sh ould be use d. This prevents almost all heat from entering the telescope, and is the safest option. Mo dels are available for up to 1 0 inches of aperture and are cu stom built for each DayStar filter owner. Please measure the outside diameter of the front of your tele scope's dew



shield. This tube OD measurement is critical to ensuring a good fit for your ERF.

Please note, a Herschel Wedge or white light filter **cannot** be used with the Quark. These filters pass very little light by design and so will result in an extremely dark image if used with the Quark.

DayStar Quark Optical Configuration Shown with 66mm F/6 example objective, for 0.6' field



How it works:

Light from the tele scope enters the blocking filter (at left), where wavelengths near Halph a are transmitted while the rest are reflected back out. Red Halpha light then passes through the tele centric barlow lens elements to achieve a slower focal ratio, more parallel light beam. The Etalon passes a very narrow range of light wavelengths, but it is sensitive to temperature and light angle. In the Quark, the Etalon is heated to a pproximately 100-150°F to control the wavelength passed, and the telecentric barlow controls the angle of light entering the Etalon.

Care and cleaning:

While not in use, we re commend that users store the Quark with its end caps on, in a climate controlled e nvironment. The optical filter life expectancy is extended up to 2-3 times by climate controlled storage.

Do not touch the internal, optical elements of the filter a ssembly. While the exterio r glass surface coatings a re d urable, they are ea sily scratched. A few specks of dust will have no effect on the quality of the image, and may be g ently blown off with a sque eze bulb. Do NOT use compressed air can s to blow dust off any optical surfa ces. S mall amounts of residual 'film' will not affect visual performance. Fingerprints, smudges and smears must be cleaned off. Preferred cleaning met hod is to return the Quark to the DayStar Filters la boratory for prope r factory cleaning.

Do not unscrew, open or separate your Quark filter assembly. The optical elements are held under pressure by design and will become damaged if opened. Opening the optical filter assembly will void your warranty. The safest cleaning method is to moisten a very soft, lint-free tissue, cloth or "Qtip" with a pure acetone, methan ol, or Iso propyl Alcohol (reagent grade) and gently whisk away the stain. Do not apply solutions directly to the glass surface. Stroke from the center of the ape rture outward only. After each cleaning stroke, use a fresh applicator. The fewer strokes, the better! The metal hou sing and othe r non optical parts are a nodized surfaces and can be cleaned with Windex.

Eyepiece Selection:

Daystar Recommends Tele Vue PlossI series eyepieces of 25mm, 32mm, and 40mm.

Remember that at F/30, a high powered eyepiece can exceed Dawes' limit. Observers will find best results with an eyepiece which is 32 mm or g reater to avoid this. Eyepieces of higher power will result in a fuzzy disk without the ability to focus well.



We have tested a number of eyepieces over the years. We performed a comprehensive eyepiece comparison between various brand names and eyepiece styles. Naglers, zooms, radians and oth er "fa st" eye pieces typically perform very badly on DayStar applications.

Other brands do offer Plossl eye pieces in 32-40mm and they can give a respectable performance in lieu of a Tele Vue. We have also found some of the very old wide field "Erfle" eyepieces aren't bad for a nexperienced observer. It should be noted that repeatedly in side-by-side tests, we found Tele Vue brand Plossl eyepieces to offer the highest contrast, most even view and widest exit pupil. In Solar Observing, contrast is achieved by control of scattering. Tele Vue Plossl's stand out in superior design. Furthermore, the adjustable eye cup offers additional contrast by allowing the user to dark adapt during sunny days.

Eyepiece features we found to increase performance include:

- "Fully Multicoated" Of those eyepieces which did better than others, those marked "fully multicoated" offered better views from less internal scattering.
- Blackened optical edges Tele Vue and other eyepieces which performed better all had blackened edges of their optical elements. This also reduces internal scattering within the eyepiece.

Maximizing the viewing experience:

Daytime viewing results in stray light entering your eye that can make it hard to see through the filter. We recommend a viewing hood or cloth be placed ove r your he ad to limit the stray light that enters yo ur eye, allowing fainter prominences and more surface detail to be observed. A comfortable chair also improves the experience, allowing the eye to stay steady for I onger periods so a s to pi ck out mo re subtle details on the surface of the Sun.

About Seeing Limitations and Resolution:

Solar observing seeing conditions vary greatly from nighttime conditions. During the daytime, radiant he ating from the sun affects seeing significantly. Characterized by turbulence or shimmering as seen over a hot street, seeing can cause significant impact on quality of solar observations.

- Bad seei ng is cau sed by air of different temperatures mixing. This typically happens within the lowest 10 feet of air. It occurs most often over pavement, dark objects, roo ftops and sometimes trees. High cirrus clouds or "scuzz" will cause scattering of sunlight in the high atmosphere which often makes for blad viewing conditions. A classic sign of high cirrus clouds is the inability to achieve focus, or the need to "chase focus", or a lack of contrast.
- A jet-stream moving overhead can also hurt seeing conditions even on a clear day.

DayStar Filters are high power viewing platforms and this high resolution can be su sceptible to seeing issues. Solar Observers using high powered, high resolution telescopes and DayStar filters should heed daytime seeing. While many of these conditions are beyond our control, observing in an area with ideal conditions, without pavement in the direction of viewing, and on days with no high cirrus will offer best results. Grass is the best environment for daytime seeing stability.

Each observing location offers different behavior for daytime seeing cells at different times of the day, as the air through which one views changes with movement of the sun. Some lo cations be nefit from best seeing in the morning, while ma ny have best see ing in the afterno on. Because most heat va riation between air and g round surfaces occurs within the first 10 feet above the gro und, often a high observing platform will offer superior seeing. This might include a second story deck which overlooks grass.

Solar Imaging Tips:

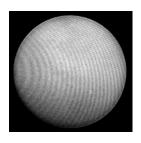
Daystar recommends
MONOCHROME CCD
imaging whenever
possible for best results.
The recent availability of
CCD came ras and DSLR
cameras has o ffered a
simple op portunity for
solar ob servers t o imag e
the Sun in Hydroge n
Alpha with a Digital SL R



camera. Ple ase b e advi sed, ho wever, that due to the nature of monochromatic light and its effects on a CCD came ra, certain negative effects are likely to occur.

The DSLR i mager mu st be a ware t hat mo st ca mera manufacturers (Canon and Nikon) use an IR blocking filter which greatly reduces the transmission of Hyd rogen Alpha light. DSLR cameras without this IR blocking filter will have better sensitivity imaging in Hydrogen Alpha.

The imag er shoul d also app reciate that even after co nsidering IR blocking filters, that the COLOR CCD chip is constructed in a way that only 1 in 4 pi xels detect red light. The other 3 sensors only detect blue and green b ecause the p ixels are a ctually permanently covered with a colored dye for each corresponding color. So a color CCD chip (in a DSLR or a CCD camera) will only offer 1/4 the sensitivity and 1/2 the resolution of a monochrome chip.



Another eff ect pre sent in CCD i maging of monochrome light of Hydroge n Alp ha is the interference pattern - or Ne wton's Rings. The effect is similar to interference testing of an optical surface b etween two flat surfa ces. The sen sor and cover slip cause a small interferometer inside the came ra and cau se a Newto n's Ring moire' pattern. The CCD chip m ust be tilted to a mino r degree to p revent this pa ttern. Recent advances

in afterm arket adapters of fer a simplified solution for the issue. This effect is a concern for both color and monochrome sensors.

An optional accessory is available from DayStar (MG-0408) which can be used between the DSLR and Quark to adjust the lig ht angle and extinct the interference pattern.

Exposure time:

Imaging solar vs. nighttime astrophotography is very different. Dark sky imaging requires long exposure times to capture enough light. Solar imaging offers a mple light, so exposures should be very short. Plus, fluctuations in seeing dictate that short <1/10 second frame rates will be better, as seeing cells move quickly to distort the image and can come and go during a long exposure.

- Short exposure webcam imagers are better than long exposure CCD cameras when imaging the sun.
- Because the sun ha s a range of brightnesses, automatic exposure doesn't work well. A software interface that allows the user to control the exposure settings manually is very important.

Exposures for promi nences taken th rough a DayStar with a we style camera might be ab out $1/15 - 1/100^{th}$ of a se cond. Exposures for surface detail would be even shorter exposure with about 1/300 to $1/500^{th}$ of a second.

Bit depth:

Solar activity encompasses a wide dynamic brightness range from bright solar flares to faint eruptive or floating prominences quite a distance from the solar limb. In order to capture all these features, we recommend the use of 12 bit or 16 bit cameras. Normal 8 bit cameras can be u sed, but will typically only be able to image ei ther the surface or prominences, necessitating multiple bracke ted expo sures and su bsequent recombination in a computer. 12 bit or 16 bit cameras enable capturing these features in the same exposure, simplifying the image processing.

Focal reducers:

Because of the long effective focal length at the output of the Quark, the image scale will be quite I arge and small (1/2" or below) image sensors will only capture a fraction of the whole solar disk in one frame. Large pixel sizes (9 microns and above) will enable a larger field of view.

Alternatively, a focal re ducer can be em ployed between the Quark and the came ra. Simple 1.25" screw in focal redu cers can be atta ched to the camera nosepiece to allow a wider field of view with small (1/2", 1/3", 1/4") sensor cameras. Mo re distance b etween the focal re ducer and came ra surface will result in more focal r eduction and I arger field of view.

Features of the Sun in Hydrogen Alpha:

By observing the sun with a narro w bandpass filter tun ed to 6562.8Å, we can observe the behavior of the Sun's Chromosphere. The



chromosphere is like a shell of g as aro und the Sun's p hotosphere, always moving a nd changing. The chromosphere's structure behaves differently in active regions than quiet areas, where magnetic field lines are stronger. T hought to be tied to the photo sphere, the chromosphere is governed by magnetic forces and, yet it still has its own IntraNetwork (IN) of material oscillating every 5 minutes.

On the limb, even a rather wide filter of 1Å or more will show prominences, a detail of the chromosphere projected ag ainst the dark black contrast of



space. To observe the details of chromosphere on the face of the sun, we ne ed a narrower fil ter to elimin ate more off-band li ght of the photosphere and continuum. We need a filter I ess than 1.0Å. The narrower the filter's bandpass, the more contrast we will see - down to 0.4Å, where prominence structure is reduced due to high velocity and subsequent wing shift.

Filaments appear as large, dark eyebrows across the surface of the Sun.

With a b rightness of about 10% of the disk due to scatterin g, they appear



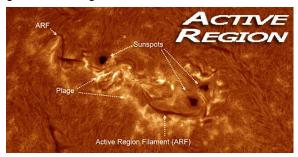
dark on the surfa ce, but on the limb, show as a prominence. Active Region Filaments (ARF) differ from Qui escent Region Filaments (QRF). ARF are da rker, smaller and have m ore coherent fibril structure along their axis. A sheared magnetic field runs parallel to this axis, permitting a sizeable flare. QRF may produce a big Coronal Mass Ejection (CME). An ARF may erupt and reform several times.

Spicules dominate the chromospheres in non-active regions and have been studied exhaustively. They are barely visible, last only about



15 minutes, and resemble a "burning prarie". Some jets can be seen shooting 10,000 km up fro m the Sun's limb at velo cities of about 30 km/sec. Studied exhaustivel y, they pre sent a num ber of observing ch allenges, a s they are to o small to re solve and move so quickly as to present wing-shift challenges.

Active Regions are a concentration o f magnetic acitivity with several ty pes of features contained in a close area.



Field Transition
Arches (FTA's)
connect P and F
spots – ele ments of
opposite polarity.
Inside a n active
region, w here
sunspots a re
originally linked by a



FTA, a shear boundary forms. Field Transition Arches are different from filaments in that they are thin and not very dark. The FTA usually has plage or granular structure underneath.

Plages: Most of the active re gion area is occupied by plage. Considerable atmospheric heating takes place in the plage. It is bright in

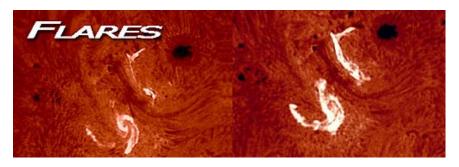


everything from Halp ha to the Calci um H and K lines. Thi s he ating is thought to account for an absence of spicule. While absent over plage, spicule are prominent around its edges.

Ellerman Bomb: A remarkable feature of Emerging Flux Regions is the Ellerman bomb. Bright points with very

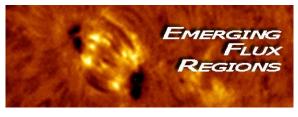


broad H-alpha wings $(\pm 5\text{Å})$ that are low in the atmosphere so they are not visible on H al pha cente rline. Called 'moustaches' for their appearance on spectrograph, they appear spectroscopically like wide moustaches with a gap in the middle. This strange and tiny feature typically occurs at the center of the EFR or in the edges of spots - where the field is breaking the surface.



Solar Flares are intense, abrupt releases of energy which occur in areas where the magnetic field is chan ging by flux e mergence or sunspot motion. Stre sses in lines of force build up slowly and are released in flares. They occur most frequently at neutral lines where a filament is supported by horizontal sheared field lines. This event can only take place along a magnetic inversion line. When many lines of force are involved, two ribbons of emission appear, brightening simultaneously.

Emerging Flux Regions: An area on the Sun where a magnetic di pole, or "flux tube" is surfacing on the disk, eventually p roducing



a bipolar sunspot group. Each p ole of an EFR is often marked by pore s or small d eveloping sunspots. Surges or even small solar flares can sometimes occur in EFRs. An EFR emerges with small bright H region with little surges, then weak a rch filaments (AFS) over bright plage connect small spots on each dipole. Growth is rapid, forming in just a few hours.

Troubleshooting:

Blank, featureless disk:

Ensure power is applied and LED is green.

Try moving focus in and out by 1-2 inches (2-5cm).

Ensure Quark is installed AFTER diagonal.

Make sure a 25 to 40mm eyepiece (not included) is installed.

Ensure knob is pointing straight away from the power jack.

Check for focuser droop, all connections between telescope and Quark must be tight and square.

Poor contrast:

Check that optical surfaces are clean. Dust specks do not affect the view, check for smudges such as oil from fingerprints.

Try adjusting wing shift kn ob up 3-4 clicks clockwise past center and wait 5-10 minutes. If that does not improve the view, try down 3 -4 clicks below center and wait 5-10 minutes.

Atmospheric seeing or transparency may be poor, try again later.

Blurry image:

Blurry views are typically due to p oor seeing. Poor seeing can be caused by the p resence of he at waves f rom concrete, a sphalt, or machinery. Weather effects like the jet stream can also cause blurring. Try moving to a different location or else observe on a day when weather conditions are improved.

Yellow LED indication:

Your filter is adjusting to the wavelength chosen by the knob. Wait approximately 5-10 minutes for the temperature to adjust and then light should turn green, indicating that the filter has settled to its required temperature and is on band for viewing.

Yellow, never goes green LED indication:

If after 20 minutes of the same knob position setting the LED has not turned green, the ambient temperature may be too hot or too cold for the Quark to regulate the temperature. However, the filter may still be usable while slightly mistuned and performance may not be affected.

Red LED indication:

This u sually indicates that the Q uark is n ot receiving e nough voltage. If powe red by battery, recharge the batte ry. Make su re to use the supplied AC/DC wall adapter, as cell phone chargers and P C USB ports do not have enough current capability for the Quark.

Red indi cation can also mean an electrical fault in the Quark electronics. If power source changes do not resolve the red indi cation, please return the Quark to DayStar for inspection and repair.

Specifications:

Wavelength: 6562.8Å

Tuning knob: Wing shift +/- 0.5Å in 0.1Å increments.

FWHM: Not specified. Prominence units are generally 0.6Å or

above, Chromosphere units generally 0.5Å or below.

Compatibility: F/4 to F/9 refractor telescopes.

Not suited for off-axis (SCT or dob) application.

Barlow: Integrated, fully baffled 2 element telecentric 4.3X barlow

optimized for 656nm

Blocking filter: Integrated 12mm blocking filter Clear aperture: 20mm clear etalon aperture

Full disk: Passes full solar disk for focal lengths under ~450mm.

Aperture limit: None, usable on large telescopes for high magnification.

For apertures over 80mm*, suggest UV/IR application

before diagonal for Energy Rejection.

Sun side: 1.25" and 2.0" combo male snouts with safety indent.

Focal point: 1.25" snout requires approx. 8mm in-focus.

2" requires approx. 10mm out-focus.

Eyepiece side: 1.25" female drawtube.

Brass compression ring to protect eyepiece. Optional 2" and SCT accessories available.

Power: USB power, 5v 1.5amp, female Micro-B connector.

Power is required for proper operation.

Wall adapter: 90-240VAC wall adapter, includes US, UK, Euro and

Australian plugs.

Opt. battery: Optional 8-hour battery pack available.

LED indicator: Yellow: temperature settling.

Green: ready to observe, filter on band.

Red: fault such as low voltage.

Settling time: Approximately 5-6 minutes after power up or change

of wing shift.

Temperature: Ambient temperature range 0°-100°F

Dimensions: 55mm diameter x 71mm x 146mm long. Includes: Quark filter, power supply, user manual.

Warranty: 5 years

^{*}All dedicated solar tracking applications should employ energy rejection

FCC Notice:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are d esigned to pro vide rea sonable protection ag ainst ha rmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not install ed and used in accordance with the instructions, may cause harmful interference to radio communications. Ho wever, there is no guarantee that in terference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or reloc ate the receiving ant enna. In crease the se paration between the equipment and receiver. C onnect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

Correct Disposal of This Product:



(Waste Electrical & Electronic Equipment)
(Applicable i n the Eu ropean Union and other Europ ean countries with separate collection systems)

This m arking shown on the product or its liter ature, indicate that it should not be disposed with other household wastes at

the end of its working lif e. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. This product should not be mixed with other commercial wastes purchased this product, or their local government office, for details of where and how they can take item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. Household users should contact either the retailer where they for disposal.

Copyright:

This manual copyright © DayStar Filters 2014, all rights reserved.

Warranty:

Blockers and trimmers are considered a wear item and only warrantee d on a pro-rated five year term.

Warrantor: DayStar Filters LLC

Elements of Warranty: DayStar warrants, for five years of the original retail purchase owner, this Product to be free from defects in materials and workmanship with only the limitations or exclusions set out below.

Warranty Duration: This warranty to the original user shall last for one year of the original user. The warranty is invalid if the Product is (A) damaged or not maintained as detailed in Operating and Maintenance Manual (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by DayStar, or (C) serviced or repaired by someone other than the DayStar Filters Service Center for a defect or manlfunction covered by this warranty. This warrantee in cludes shipping to and from any point inside the United States. Insurance upon that shipping and/or international shipping and/or any customs and/or import duties attached are the sole responsibiltiy of the owner.

Statement of Remedy: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will repair the defect and return it to you without charge for parts, service or any cost incurred by the warrantor in connection with the performance of this warranty. THE FIVE YEAR WARRANTY SET FORTH ABOVE I S THE SOLE AND ENTIRE WA RRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EX CLUDES AL L OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHE EXPRESS. IMPLIED OR ARISIN G BY OPERATION OF LAW. INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRA NTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS W ARRANTY DOES N OT COVER OR PR OVIDE FOR THE REIMBURSEMENT OR PAYMENT OF I NCIDENTAL OR CONSEQUENTIAL DAMAGES.

Procedure for obtaining performance of warranty: Upon discovery of flaw, we require that the user communicate by telephone and/or email to the DayStar Service department to report the failure of equipment. Should te chnical support be unable to resolve the conflicts of the product, it should be packaged in its original packaging and returned with evidence of original purchase and note describing defect to include owner contact information. The product should be shipped freight prepaid by traceable means or delivered to warrantor at:

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