

## Manual

### HRG80DS (0551391) and HRG100DS (0551491)

### Anti-Reflection Filter for LS80THa and LS100THa

The LS80THa and LS100THa H-alpha solar telescopes can be double-stacked by using the internal DSII double-stack modules. This is a reasonably priced possibility for double-stacking. The DSII modules will reduce the bandwidth to <0.5 Angstroms. The DSII module is designed to provide enhanced surface detail, allowing for higher contrast views of the filaments and active regions.

But the DSII modules will also produce reflections that will be visible as strong glow around the sun. This glow is no problem by observing the solar surface. But it could be a problem by observing prominences, and some observers find this glow distracting.

The anti-reflection filters HRG80DS for LS80THa and HRG100DS for LS100THa are designed to solve this problem. The filters will effectively reduce the reflections.

### Installing the HRG80DS anti-reflection filter at LS80THa/DSII

The anti-reflection filter will be placed between Etalon of the telescope and DSII double-stack module, like it is shown at the images below.



Remove the DSII double-stack module from your telescope. Now take the HRG anti-reflection filter and press the two silver knobs together that the HRG housing fits into the telescope. Move the HRG inside the telescope as far as it will go. Now you can again install your DSII module at the telescope, that's all. Now you can start solar observing.

Please note that the image will become some darker by using the anti-reflection filter.

**Please see next page for installing the HRG100DS anti-reflection filter at LS100THa/DSII**

## **Installing the HRG100DS anti-reflection filter at LS100THa/DSII**

The anti-reflection filter will be placed between Etalon of the telescope and DSII double-stack module, like it is shown at the images below.



Remove the DSII double-stack module from your telescope.



Now unscrew the black tube with red colored filter from the end of the DSII module. This black tube with red colored filter will not longer be needed.



It will be replaced by the new black tube from the anti-reflection filter HRG100DS. Screw this new black tube with anti-reflection filter on the DSII module. Now you can again install your DSII module at the telescope, that's all. Now you can start solar observing.

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