

DuoBand Processing in APP

The question:

How can one Register and Integrate frames captured using a UVIR filter and a DuoBand (Ha/OIII) filter

The recommendation:

Separate the Ha and OIII frequencies first then process using Multi-Chanel/Filter Processing

TEST#1: Confirm the DuoBand filter frames have DuoBand data

Starting with 10 Light frames with the DuoBand (Ha/OIII) filter and the MasterDark and MasterBias

1. Set Tab 0 Algorithm to Ha-OIII extract Ha
2. Run Tabs 2-6
3. Set Tab 0 Algorithm to Ha-OIII extract OIII
4. Run Tabs 2-6 (accept re-Normalization)

Ha Integration



OIII Integration



We can see the Ha integration is different from the OIII integration.

TEST #2: Confirm the same result can be achieved by creating new Light frames with the process below

Starting with 10 Light frames with the DuoBand (Ha/OIII) filter and the MasterDark and MasterBias

1. Set Tab 0 Algorithm to Ha-OIII extract Ha
2. Run Tab 2
3. Rename calibration files (filter-Ha)
4. Set Tab 0 Algorithm to Ha-OIII extract OIII
5. Run Tab 2
6. Rename calibration files (filter-OIII)
7. Clear data
8. Tab 0 Algorithm to Adaptive Airy Disc
9. Tab 1 Activate Multi-Channel/Filter Processing
10. Load Ha calibration files as Ha
11. Load OIII calibration files as OIII
12. Tab 6 set Multi-Channel/Filter option to integrate per channel
13. Run Tabs 2-6

Ha Integration



OIII Integration



As you can see, both integrations are identical plus they are in color - not grayscale. These two methods are not equivalent