

HYPER PLUS Startup Procedures

- TEC Switch to OFF position
- HYPER 7/14 Switch to OFF (Center) position
- X4 Switch to OFF
- Hook up all cables to camera – hook power cable last
- Apply camera power – green light should be on
- Depress the Center button of the On Screen Display
- Make the following Menu adjustments
- SENSE to 128X
- ALC/ELC to ALC with shutter OFF and slider to full right position
- AGC to MANUAL with slider 1/3 from Full Left
- APC sliders (horizontal and vertical) to full left position – OPTIONS sub-menu
- For Color camera, set W/B to MANUAL with BLUE +1 from the Middle Position and RED 1 or 2 from the Left
- SAVE and wait 2-3 minutes for full image integration
- TEC ON
- Center object and focus
- Select 7 or 14 second mode for HYPER
- For 28 or 56 second modes, flip the X4 switch to ON
- Observe

HYPER Shutdown Procedures

- Return HYPER switch to OFF (Central) position
- Return X4 switch to OFF
- Turn OFF TEC
- Wait 2-3 minutes
- Disconnect camera power cable
- Remove remaining camera cables

Additional Notes

APC

- APC sliders to full LEFT disables DSP
- DSP OFF – no anti-blooming or sharpening, camera acts like a CCD imager
- DSP ON – anti-blooming and sharpening

COLOR

- Sky – black to light brown
- Test on Globular – soft yellow to white stars
- Test on M57 – Red outer and Blue/Green inner

TEC

- 2 Second Mode – Leave OFF normally, place ON to control warm pixels
- 7/14 and 28/56 Second Modes – Leave ON

LUNAR/PLANETARY VIEWING

- TEC in OFF position

FRAME DROP OUT

- It is normal to lose a frame or two during an observing run. This is caused by the CCD sensor resetting itself to keep linear performance. If a lost frame is observed, turn the X4 and 7/14 second mode switches to OFF for a few seconds. Then re-engage the 7/14 or 28/56 second mode and continue observing.