



## Camera Settings:

- Manual shutter, exposure & focus
- Image: RAW or RAW+JPEG
- Turn off in-camera noise reduction feature
- White balance: Daylight or tungsten
- Shutter delay: 2 seconds (or remote trigger)
- Set live view monitor brightness to low  
(to save battery)



## How to Focus:

- **Lens:** Set to manual focus
- **Focus:** Set focus at infinity
- **ISO:** Turn on auto ISO
  1. Turn on live view
  2. Digital zoom on the brightest star/planet in the sky
  3. Adjust focus
  4. Reset ISO and digital zoom
  5. Alternatively: Set your focus while it's still light out, then don't touch it.



# Getting the Image:

1

(Fixed)

**F-Stop** - Set to the widest possible for your lens

2

(Fixed)

**Shutter** - Use 500 Rule =  $500 / ((\text{lens in mm}) \times (\text{crop factor}))$

3

(Varies)

**ISO** - Start at 1600 and then raise to adjust exposure



# Packing List:

## Must Have:

- Camera/lens**
- Memory card**
- Tripod**
- Red LED headlamp**

## Nice to Have:

- Remote camera trigger
- Additional batteries
- Bright flashlight
- Low level light panel
- Lens/dew heater (cold nights)

## Comfort:

- Water/snacks*
- Light weight chair*
- Jacket/sweatshirt*
- Cap/hat*
- Bug spray*
- Bear/pepper spray*