

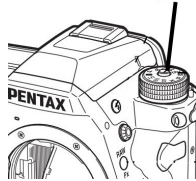
Night Sky Cheat Sheet

Pentax

Common Steps:

1. Camera in Manual Mode
2. Set Shutter to 20 seconds
3. Set Aperture to smallest number (eg: f/2.8, f4)
4. Set ISO to 3200 (1600 to reduce or 6400 to increase exposure)
5. Set white balance to Fluorescent (or between 3800-4800k)
6. Set to shoot in RAW
7. Disable high iso & long exposure noise reduction
8. Focus your lens and switch to manual and Image Stabilisation
9. Enable mirror lockup (not required on mirrorless)
10. Set a 5 - 10 second shutter timer

1 Turn the wheel until you get to M - manual mode



2 Use the front wheel to change the shutter speed

Turn .

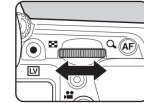
The shutter speed is changed in Tv, **TAv**, or **M** mode.



3 Use the rear wheel to change the aperture

Turn .

The aperture value is changed in Av, **TAv**, **M**, **B**, or **X** mode. The sensitivity is changed in **Sv** mode.



4 Press the ISO button, to change the ISO

1 Press **ISO**, and then turn . The sensitivity displayed on the status screen, Live View screen, LCD panel and in the viewfinder changes. Press to set the sensitivity to [ISO AUTO].



5 Press LEFT to change white balance

Setting the White Balance

Press **◀** in standby mode. The White Balance setting screen appears.

Select the White Balance.



7 Press MENU - High ISO NR to turn off High ISO NR

You can set the Noise Reduction setting when shooting with a high ISO sensitivity in [High-ISO NR] of the **02** menu.

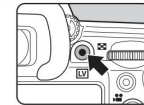


7 Long exposure Noise Reduction not available

8 Use live view and press the magnifier or + & - to zoom, use focus ring on lens to focus

Press **LV**

The Live View image is displayed on the monitor.



9 Press UP and select MUP to set enable mirror lock

Mirror Lock-up Shooting

1 Press **▲** in standby mode. The Drive Mode screen appears.

2 Select **MUP** and press **▼**.



3 Select **MUP** or **MF** and press **Ⓢ**.

The camera returns to standby mode.

4 Press the shutter release button halfway, then fully.

The mirror pops up and the AE Lock function is activated.

10 Press UP and select the Timer to set a shutter timer

Self-timer

1 Press **▲** in standby mode. The Drive Mode screen appears.

2 Select **Ⓢ** and press **▼**.



3 Select **Ⓢ** or **Ⓢ** and press **Ⓢ**.

The camera returns to standby mode.

SHOOT



Night Sky Cheat Sheet

500 Rule – Camera must be set to 3200 or 6400 ISO, aperture f/2.8 (or faster).

See: <https://www.lightstalking.com/500-rule/>

On **full frame** sensors calculate 500 divided by your focal length

EG: $500 / 17\text{mm} = 29.4$ seconds

On **Canon** or 1.6x crop sensors calculate 500 divided by (focal length x 1.6)

EG: $500 / (17\text{mm} \times 1.6 \text{ eq } 27.2) = 18.4$ seconds

On **Nikon** or 1.5x crop sensors calculate 500 divided by (focal length x 1.5)

EG: $500 / (17\text{mm} \times 1.5 \text{ eq } 25.5) = 19.6$ seconds

600 Rule - Same as above but use 600 instead of 500.

