Starry Landscape Stacker

Robert Wrenn

How to reduce the noise in Long exposure night photos like the Milky Way.

App is $39.99

Long Exposure Stacker = $19.99

Starry Sky Stacker = $24.99

What is noise?

Sensor Noise is sort of equivalent of grain in film photography. Blurry background and loss of sharpness.

Caused by: 1) Heat 2)Electricity 3) Sensor illumination level.

Low light situations where sensor is being over volted (ISO being pushed.)

Image **noise** originating from within the camera has a few root **causes**.
The three main **causes** are electricity, heat, and sensor illumination levels.
In low-light situations where the sensor is being over-volted (ISO being pushed), each pixel has very little light wave fluctuation to report before being amplified.Aug 30,

Establish location of Milky Way – The Photographers Ephemeris - Photo Pills apps
Plan for a dark sky
Use foreground subject as an "anchor" to the Milky Way.
Focus and light the fore-ground subject and layer with photoshop.

<u>In the field</u>: for Milky Way

1) Tripod and 2) Remote Trigger release

3) Wide Angle lens

4) Open Aperture F stop ~4

5) Long shutter speed – 15-20 seconds

6) High ISO 2000-3600

7) Take 10-40 images with 1 second interval-use interval timer in camera

8) Take 5-10 "Dark Images" Use lens cap.

Process the images in Lightroom

Use Auto Stacking by time.

Highlight the "stack" with a color like green

<u>Edit the first image</u>:

        1.Increase exposure

        2. Lower contrast

        3. Set Sharpen and Noise reduction to Zero. Remove color

        4. Turn off lens corrections, especially lens distortion

        5. White Balance to Custom

        6. Increase Blacks

        (Set up user preset)

<u>Sync the whole stack plus the dark images</u>

Export to folder on Desktop

Tiff
ProPhoto RBG
16 bit
Add all metadata
Do not save Transparency

(Set as a preset)

Send Folder to Starry Landscape Stacker

Highlight all images and Right click and
Open with: Starry Landscape Stacker.

In Starry Landscape Stacker there is option for choices on editing.

Remove Red dots in foreground or foreground subject.
Use brush (the B key)
Find the Sky and Mask.
Choose combination and save.
Becomes a TIFF file.