P3 AV Prod. manuscript

[KSP space music, footage of the night sky]  
Ever since the dawn of mankind, humanity have gazed upon the stars and wondered what is out there. But with civilization came bright lights, and it has become a lot harder to see anything with all the light pollution. Astrophotography is the answer to your calls.

[Shitty picture of the moon]  
But if you’ve ever tried to take pictures of that pretty moon, you might’ve been disappointed by the results.

[anime wow SFX, image of noisy sky]  
But with the help of, getting rid of pesky noise is easier than ever before!

[tripod, DSLR and smartphone]  
All you need to get started, is a tripod and any type of camera. Next, you point your camera at a constellation of your choice and take a bunch of pictures. The more pictures the better, but with diminishing returns. These pictures taken on a tripod will already look a lot better, but still quite noisy.

[screenshot of project]  
The next step is to put the images through [insert project name]™, to eliminate that noise.

[show orb/point detection]  
Using orb detection, the program will detect stars in the image set. They’re then fed to a homographic algorithm that automatically aligns the pictures.

[animation of images getting “stacked”]  
Finally the stacking process goes through every pixel and returns the average value, for each one in every location.

[show result]  
The result is a clear image with a reduction in noise, ready to be exported.

[SNR calculator]  
But certain that the program actually removed noise, the exported image can be run through our signal to noise ratio calculator. Then do the same for a random image from the image set. The SNR’s can then be compared to see the noise difference.