



## Basic Equipment list

DSLR or Mirrorless Camera  
with "kit lens" (usually an 18-55mm)

A quality, steady tripod



## Optional Equipment

Specialized lenses

Smart Phone/Tablet with Astronomy apps

"Moon", "Aurora Now" & "Celestron Sky Portal"

Interval Time

Hand Warmers and small bungees

Tracking mount

# Manual Control

Manual Exposure



# Manual Control

Manual Focus



# Manual Control

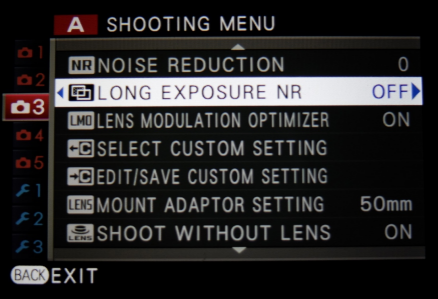
Manual ISO





# Manual Control

Turn OFF Long Exposure Noise Reduction if shooting a series of images (star trails/time lapse/meteors showers)



Turn OFF  
"Image Stabilization"



# The Stars

Best results on a moonless night

Get out of town!

ISO 1600-3200

30 Seconds/widest aperture

Wait until dark: Winter, 1hr past sunset

Summer, 2hrs past sunset



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# The Moon

our closest neighbour



# The Moon

ISO 400-1600

1/500th to 1sec



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# Aurora

Watch your app for predictions

Get out of town!

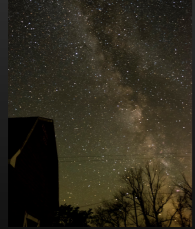
ISO 800-3200

5-30 Seconds/widest aperture



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Kit Lens



Ultra Wide



Fish Eye



Fish Eye



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## Fast Tele

"70-200 f2.8"

Allows you to see greater detail in objects

Better light gathering ability than a consumer zoom lens

Unless you are shooting the moon this lens works ONLY on a tracking mount



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## Tracking Mount

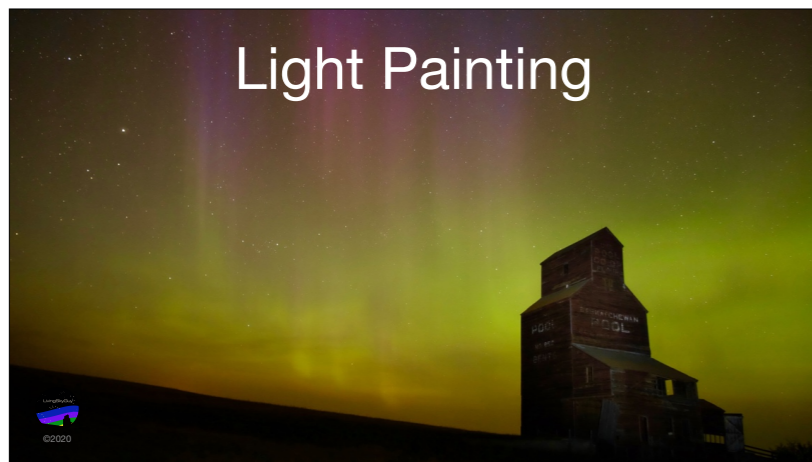
Attaches to your tripod

Align it to the polar axis

Motor rotates the camera at the same speed as the earth

Allows long exposures of stars and other celestial objects without trailing or blurring

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## Light Painting

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## Advanced Techniques

### Star Trails

 **Living Sky Guy: "Capturing Star Trails"**

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YouTube

Living Sky Guy

# "MILKY WAY THE EASY WAY"

Uploads

- Milky Way the Easy Way: a 5 minute Photoshop Recipe 5:04
- Lessons I have learned through astrophotography 16:32
- Nov 29 Showtime! 1:18
- Nov 21 Fireworks (maybe) 4:29

8 views · 3 months ago

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# Q&A \*

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