

NIGHT PHOTOGRAPHY



Sun City Shadow Hills



CAVEAT

Original Topic was to be Night Photography

Consisting of only Milky Way / Star Trails

Presentation: Website / Resources /
Photography

Types of Photography

Night Sky Photography





CAVEAT

So Today

We will talk about some different
types of night photography

Some things to watch out for

Exposure considerations

Apologies in Advance for the Photos



I OFTEN THINK THAT THE NIGHT SKY IS MORE ALIVE AND MORE RICHLY COLORED THAN THE DAY.

Vincent Van Gogh



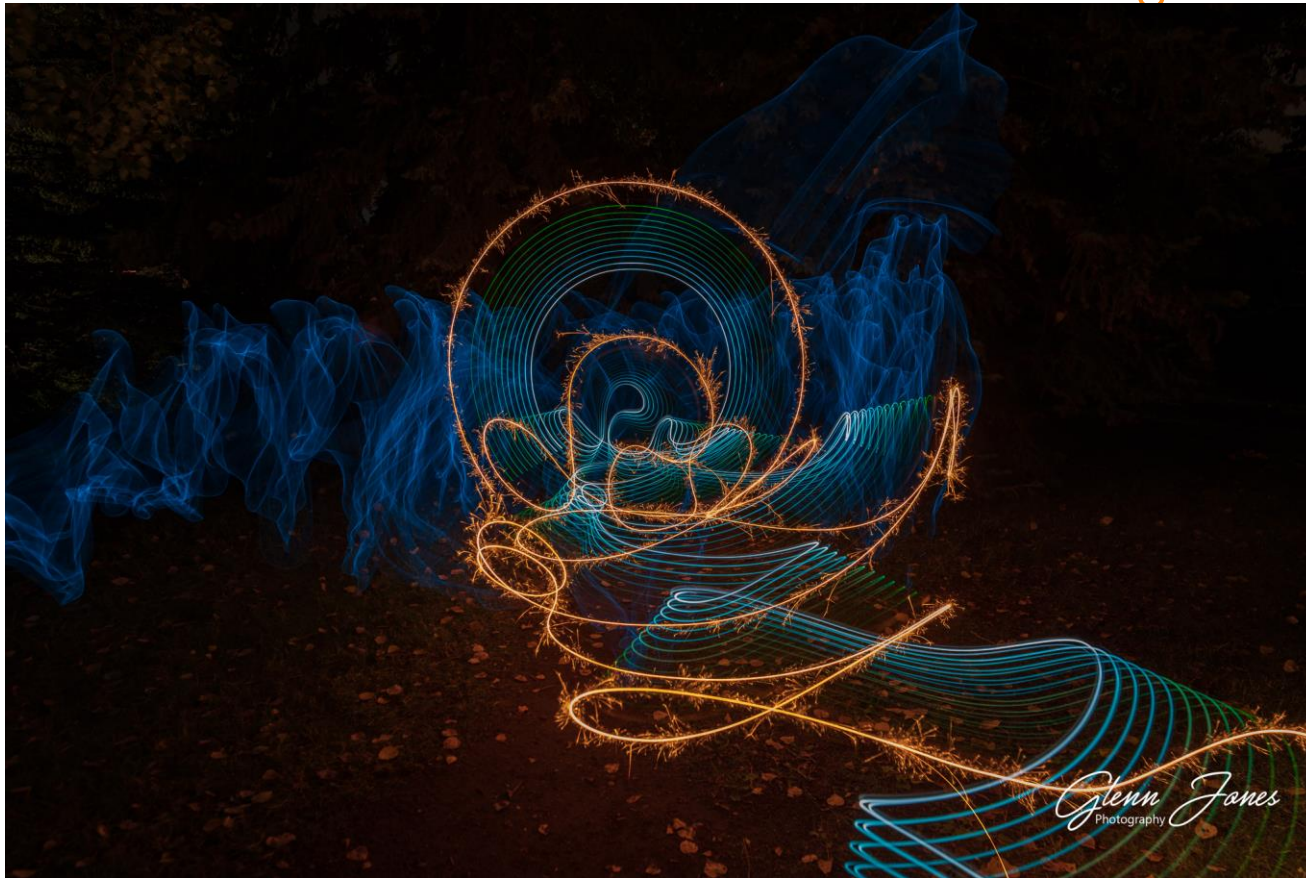


Night photography solves a huge problem that confront photographers daily.

Ordinary scenes during the day often just aren't interesting. A picture of a building or standard street scene in the middle of the day can be dull.

The same scene – shot at night – can make a really interesting photo though.

Introduction



- The sun goes down, the stars come out, city lights flickers on, and how you use your camera changes.
- Your settings will need extra attention, you may want a tripod, special lens, camera capable of increasing ISO without degrading quality.
- Shoot at night means low light. Whether capturing the stars or the lights of the city.

EQUIPMENT



EQUIPMENT

- Camera – DSLR / Mirrorless

+



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EQUIPMENT

- Camera – DSLR / Mirrorless
 - Smart Phone?

+



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EQUIPMENT

- Camera – DSLR / Mirrorless
 - Smart Phone?
- Lens

+



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EQUIPMENT

- Camera – DSLR / Mirrorless
 - Smart Phone?
- Lens
- Tripod

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EQUIPMENT

- Camera – DSLR / Mirrorless
 - Smart Phone?
- Lens
- Tripod
- Recommended but not required

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EQUIPMENT

- Camera – DSLR / Mirrorless
 - Smart Phone?
- Lens
- Tripod
- Recommended but not required
 - Remote Control

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EQUIPMENT

- Camera – DSLR / Mirrorless
 - Smart Phone?
- Lens
- Tripod
- Recommended but not required
 - Remote Control
 - Flashlight

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EQUIPMENT

- Camera – DSLR / Mirrorless
 - Smart Phone?
- Lens
- Tripod
- Recommended but not required
 - Remote Control
 - Flashlight
 - Lens Hood

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EQUIPMENT

- Camera – DSLR / Mirrorless
 - Smart Phone?
- Lens
- Tripod
- Recommended but not required
 - Remote Control
 - Flashlight
 - Lens Hood
 - Extra Batteries

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EQUIPMENT

- Camera – DSLR / Mirrorless
 - Smart Phone?
- Lens
- Tripod
- Recommended but not required
 - Remote Control
 - Flashlight
 - Lens Hood
 - Extra Batteries
 - Extra Clothes – gloves etc.

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Exposures for Night Photography



Exposures for Night Photography

Exposure Triangle



Exposures for Night Photography

Exposure Triangle

Shutter Speed



Exposures for Night Photography

Exposure Triangle

Shutter Speed

Aperture



Exposures for Night Photography

Exposure Triangle

Shutter Speed

Aperture

ISO



Exposures for Night Photography

Exposure Triangle

Shutter Speed

Aperture

ISO

Starting Point

IT DEPENDS



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SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Sunny 16 Rule





SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Sunny 16 Rule

On a sunny day set aperture to f/16 and shutter speed to the reciprocal of the ISO speed

f/16 1/100 at 100 ISO

f/16 1/200 at 200 ISO





SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Looney 11 Rule





SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Looney 11 Rule

For astronomical photos of the moon's surface, set aperture to f/11 and shutter speed to the reciprocal of the ISO speed

f/11 1/100 at 100 ISO

f/11 1/200 at 200 ISO





SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

But that all changes during a Lunar Eclipse

ISO 100

f/11





SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

But that all changes during a Lunar Eclipse

ISO 100

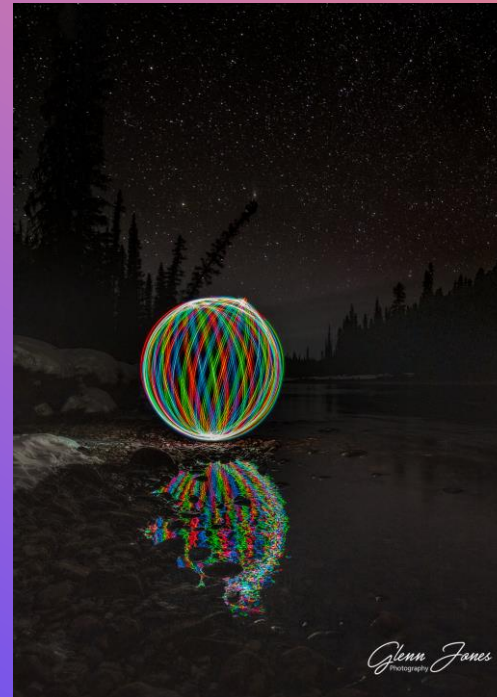
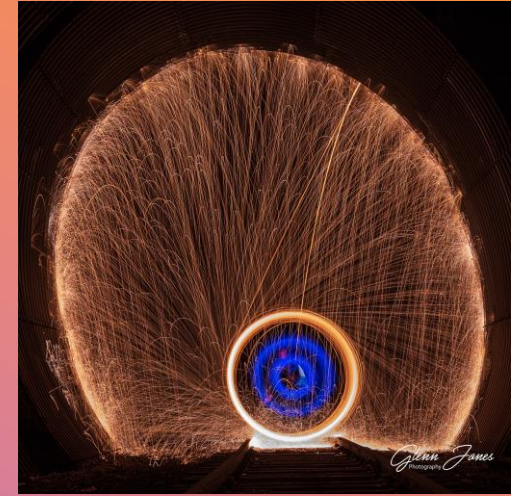
f/11

Shutter speed was 1/30



SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

- Today we are going to look at different types of night photography and some basic exposures and experiences.
- Would like this to be interactive, i.e., open for discussion as we go thru some samples.
- So please ask a question or offer a comment.





SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Milky Way (500 Rule)

f/2.8

ISO 1600

Speed – 20 seconds



SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Milky Way (NPF Rule)

f/2.8

ISO 4000

Speed – 8 seconds





SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Star Trails

f/5.6

ISO 400

Speed – 300 seconds



Stack – 48 Photos + 1 for foreground

SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Star Trails

f/3.2

ISO 1600

Speed – 13 seconds





SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Star Trails

f/3.2

ISO 1600

Speed – 13 seconds





SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Moon

Looney 11 Rule

f/11

1/100 sec

ISO 1000



f/11.0 1/100 sec 450mm ISO 100



SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY



f/11.0 1/100 sec 450mm ISO 100

SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY



f/11.0 1/100 sec 250mm ISO 100
Multi Exposure in Camera 2 minutes apart



SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY



f/11.0 1/160 sec 450mm ISO 400

SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY



Base Photo f/18.0 95.0 secs 16mm ISO 400



SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Northern Lights
(Aurora Borealis)
Or
Southern Lights
(Aurora Australis)

f/2.8
ISO 800

Speed – 4-8 seconds



f/2.8 8.0 secs 30mm ISO 800



SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Light Painting
(With Night Sky)

f/2.8 – f/4.0

ISO 800

Speed – 8-20 seconds



f/2.8 8.0 secs 30mm ISO 800



SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY



f/3.5 13.0 secs 10mm ISO 800



f/3.5 13.0 secs 10mm ISO 800



SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY



f/3.5 13.0 secs 10mm ISO 800



SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Fireworks

f/16 - f/18

ISO 100-200

Speed – Variable

4-14 seconds or more



f/18.0 4.7 secs 10mm ISO 100

SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

How about Fireworks at an Airshow

f/18

ISO 100

Speed – 7.8 Seconds



Blend f/7.1 8.3 secs 30mm ISO 1000

SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Speaking of Airshows

After Burners after Dark

250mm

f/4.0

1/400

ISO – 5000

Pre-focused





SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Cityscapes

f/11

ISO 400

Speed – 8-10 seconds



f/11 10.0 secs 60mm ISO 500

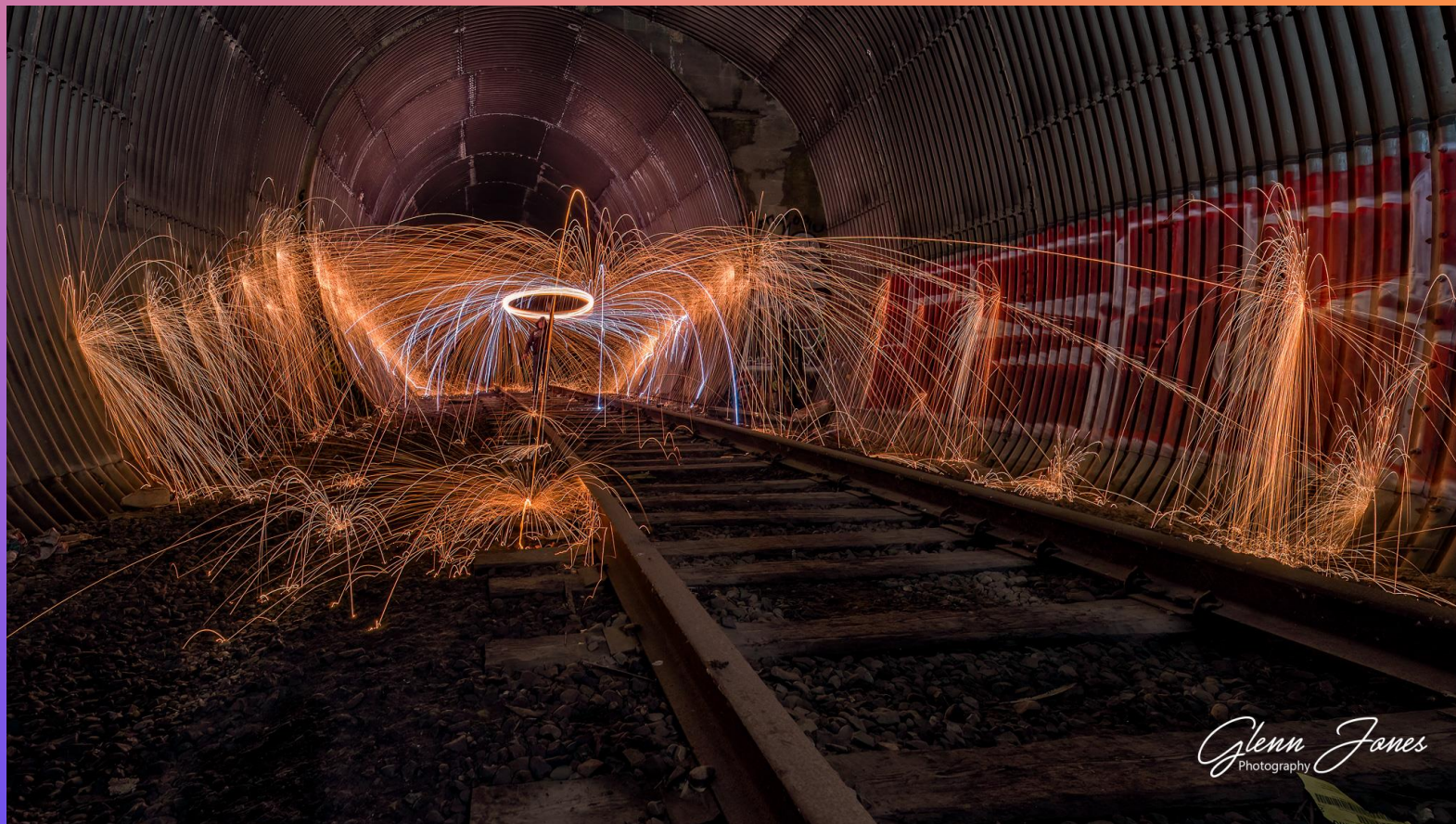
SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Steel Wool Spinning

f/10

ISO 100

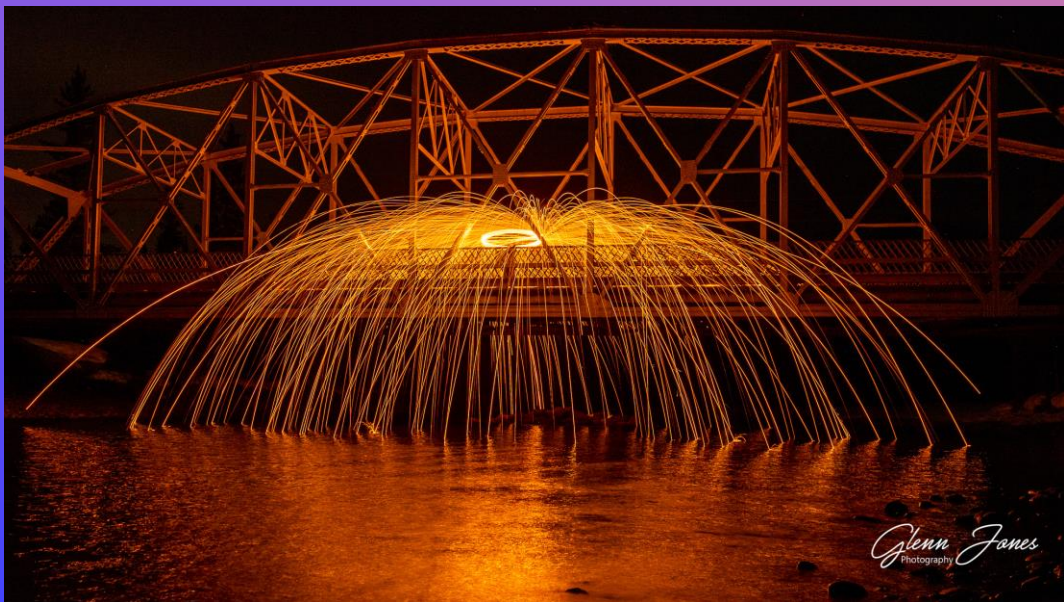
Speed – 8-10 seconds



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f/10 8.4 secs 15mm ISO 100

SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY



f/6.3 9.7 secs 16mm ISO 100



f/14 12.0 secs 16mm ISO 100

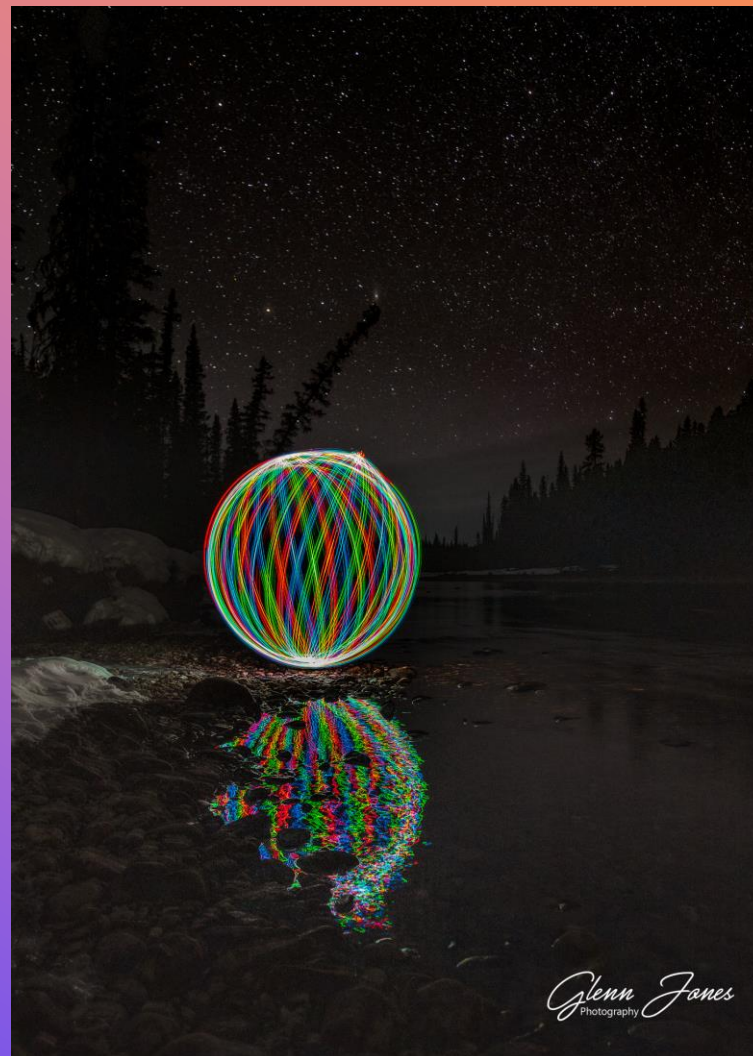
SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Orb Spinning

f/2.8 and up

ISO 100

Speed – Variable



f/2.8 15.0 secs 22mm ISO 100

SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Fuzzy Orb Spinning



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f/7.1 26.0 secs 30mm ISO 100

SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Light Wand Painting

f/4 – f10 Depending on intensity of lights

ISO 100

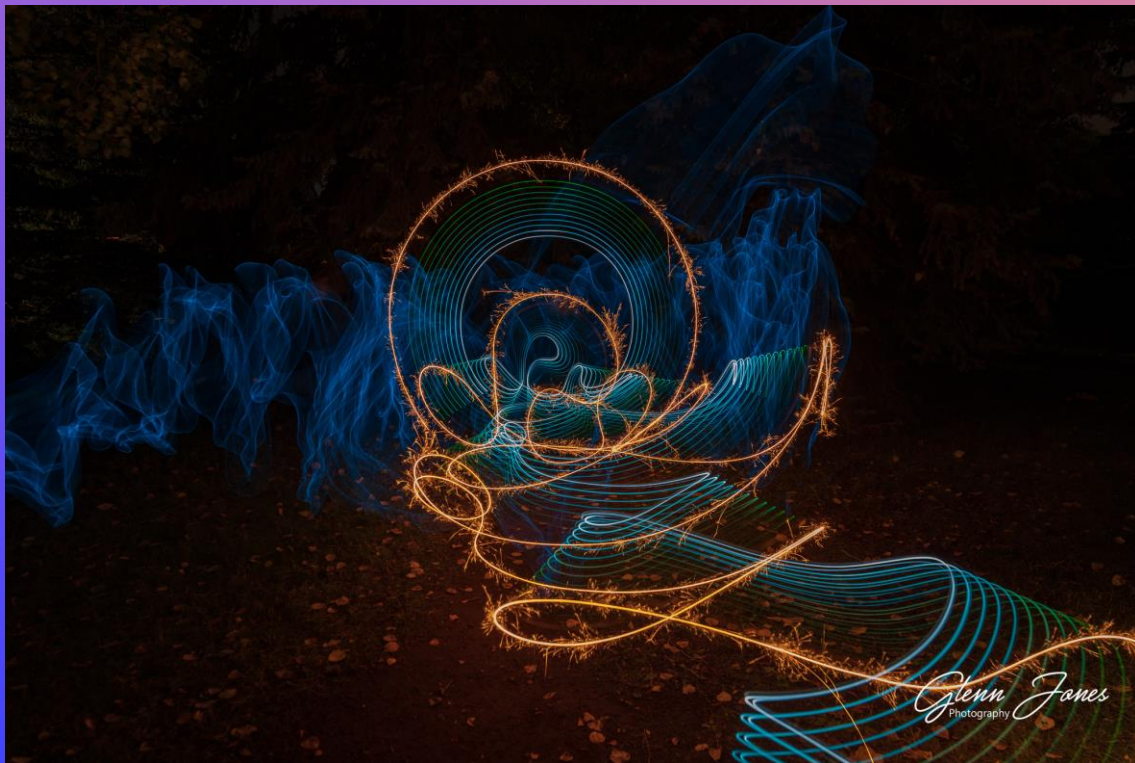
Speed – 8-10 or more seconds



f/4.0 45.0 secs 22mm ISO 100



SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY



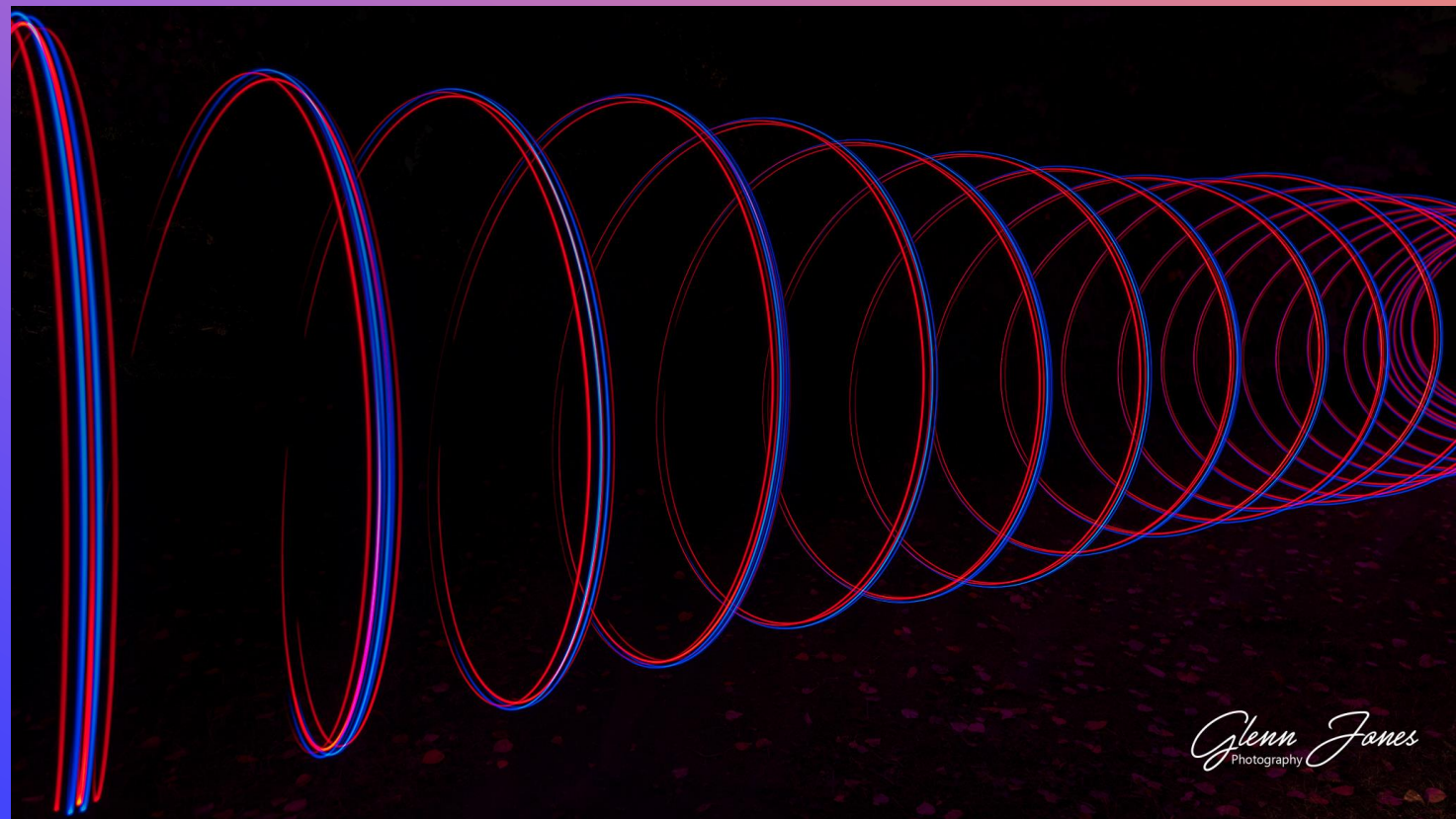
f/4.0 22.0 secs 22mm ISO 100



f/4.0 26.0 secs 22mm ISO 100

SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Basic designs to master – Single Pass

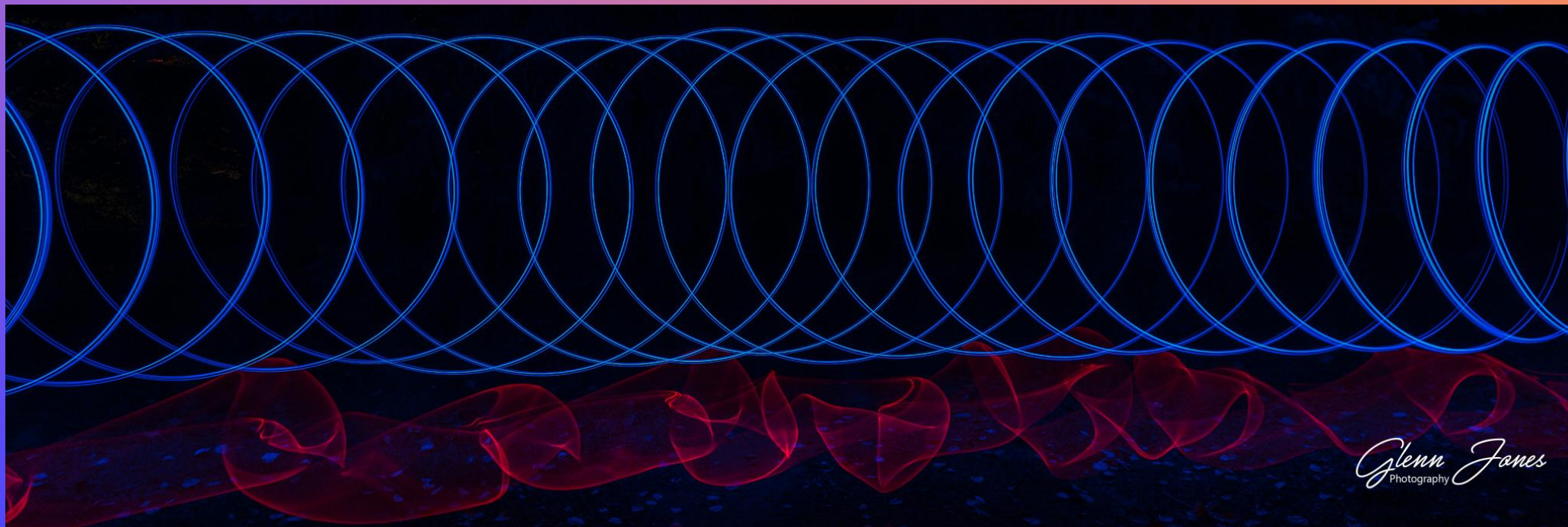


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f/4.0 13.0 secs 22mm ISO 100

SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Basic designs to master – Double Pass



f/4.0 14.0 secs 22mm ISO 100



**MANY,
MANY
POSSIBILITIES**



A PLUG FOR THIS MONTH'S FIELD TRIP

Borrego Springs / Anza Borrego

Evening of Nov 28 (? TBD ?)

Practice some light painting on the statues.

There will be a full moon – so some light already.

Play with some light wands.

If anyone has some other props / lights, please bring so we can all enjoy.





SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Street Photography

f/2.8 – 3.5

ISO 4000-5000

Speed – 1/60 – 1/125 second
(handheld)



f/2.8 1/60 sec 66mm ISO 4000

SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY



f/4.0 1/50 sec 70mm ISO 5000

Don't be afraid to boost your ISO



f/2.8 1/50 sec 68mm ISO 50000

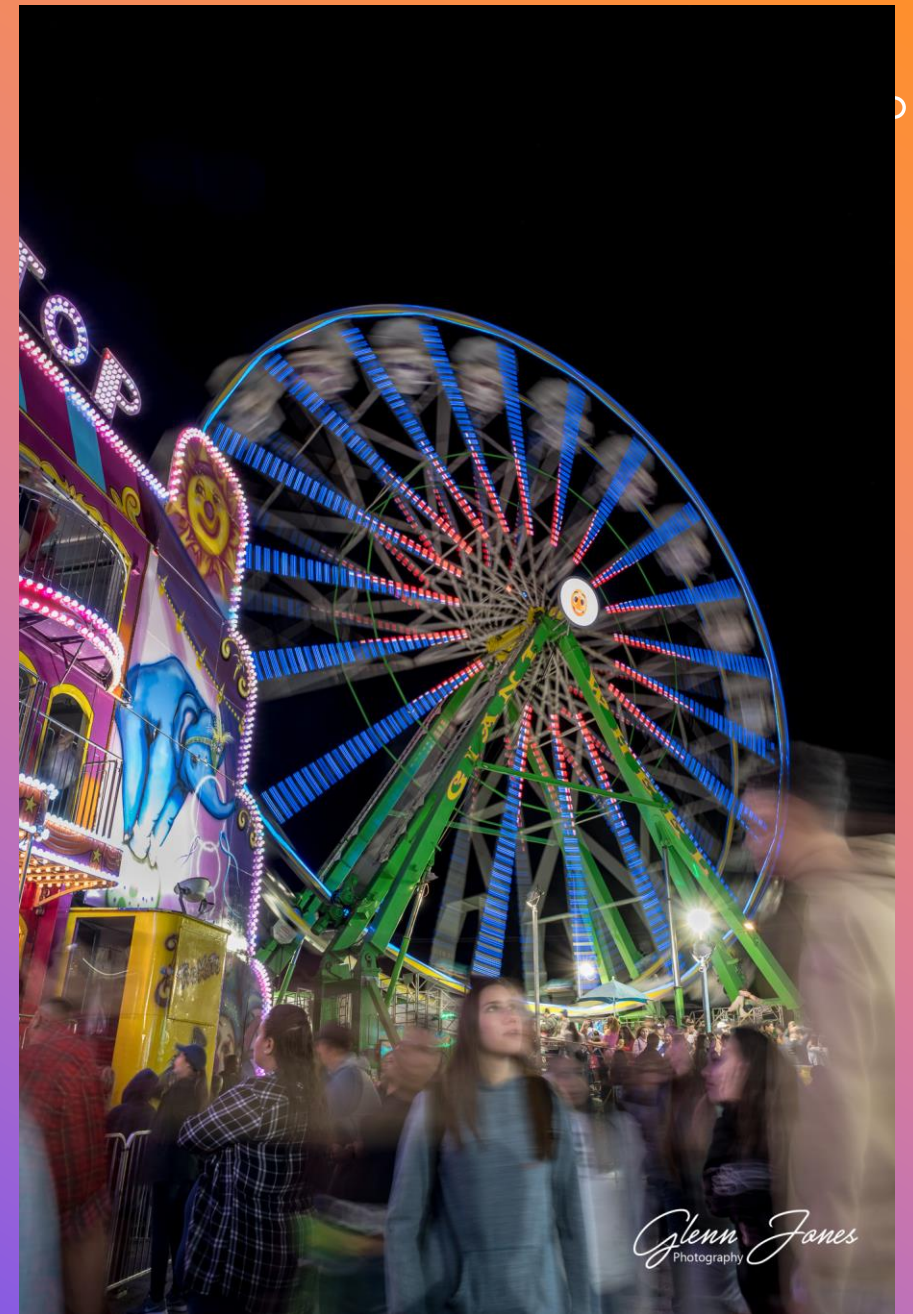
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DATE FESTIVAL



f/7.1 1/10 sec 24mm ISO 100



f/8.0 1.0 sec 24 mm ISO 100 61

SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Even when you are travelling

Chobe River – Botswana
Africa

38mm

1/30

f/2.8

ISO 800



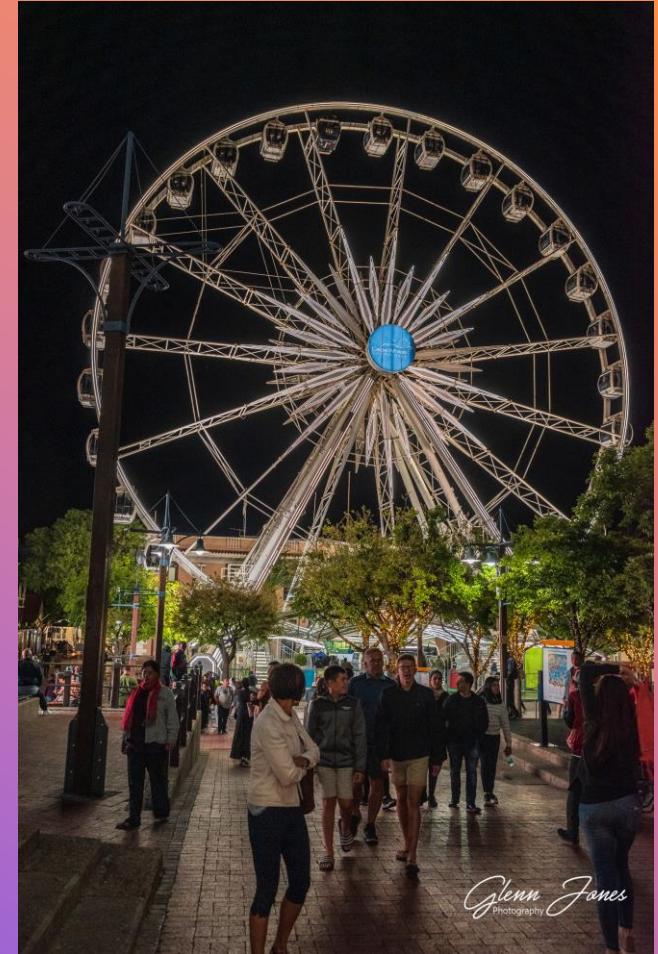


SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Cape Town, South Africa
Walkabout on V&A Waterfront



f/3.2 1/30 sec 38mm ISO 1600



f/4.0 1/125 sec 33mm ISO 1600



SAMPLE EXPOSURES FOR NIGHT PHOTOGRAPHY

Sometimes you need to be prepared for anything
Galapagos - Sierra Negra Eruptions on S.E. Isabela
Jun 27, 1017



f/2.8 1/25 sec 50mm ISO 2000



f/2.8 1/25 sec 70mm ISO 6400

LIVING DESERT GLOW IN THE DARK



f/5.6 0.5 sec 33mm ISO 125



f/8.0 1/10 sec 24mm ISO 100

LIVING DESERT GLOW IN THE DARK



f/8.0 0.3 sec 24mm ISO 100



f/8.0 0.6 sec 24mm ISO 100

LIVING DESERT GLOW IN THE DARK



f/8.0 1/6 sec 31mm ISO 100



f/8.0 0.3 sec 24mm ISO 100



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Quotes

Everything is prettier at night.

ISO up, shutter speed down

People never forget two things:
their first love and their first-time
doing night photography.

Night-time, when the sun takes a
break, and the moon and stars take
center stage.

MAYBE NEXT MONTH YOU WILL BE READY FOR SANTA



Don't be afraid of the dark.

When it's too hot during the day, shoot at night.

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THANK YOU

SUN CITY Shadow Hills
Camera Club

[Website: www.scshtcameraclub.com](http://www.scshtcameraclub.com)

