

LONG EXPOSURE PHOTOGRAPHY

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Long-exposure, time-exposure, or slow-shutter photography involves using a long-duration shutter speed to sharply capture the stationary elements of images while blurring, smearing, or obscuring the moving elements.

Explore the world of Long Exposure

From birds & blurry waves

to sunrise-sunsets, blue hour and

night skies.





Light painting with Nikon D40x - 30 sec - 100 iso - 35mm - f3.8

Tripod

Remote control or shutter delay

Manual setting

Low ISO (usually)

Slow shutter speed

Things to think about:

On a tripod - cut off VC or VR on lens

Cover the view finder to prevent
light leaks

Remote control for shutter



1/2000 sec - 800 ISO - 300mm - f8



1/15 sec - 400 ISO - 185mm - f14



.625 sec - 250 ISO - 24mm - f14



2.5 sec - 100 ISO - 32mm - f22



1.3 sec - 100 ISO - 38mm - f8



Original RAW Image

Editing Software:

Ps or LrC

Nik Software

Topaz Denoise, Sharpen, Gigapixel

Topaz Photo AI



1/30 sec - 64 ISO - 600mm - f10



1/30 sec - 64 ISO - 105mm - f22



1/1000 sec - 500 ISO - 500mm - f6

Things I learned:

Expose for the highlights

Horizons should be level

Your first 10,000 images

are your worst



1.6 sec - 1000 ISO - 70mm - f2.8



10 sec - 1000 ISO - 450mm - f6



20 sec - 400 ISO - 24mm - f2.8

More Stuff:

Shoot it

Learn from your mistakes

Shoot it again

Make it a composition



**Happy
Independence Day**

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6 sec - 100 ISO - 24mm - f11



10 sec - 64 ISO - 38mm - f8

Lightening





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5 sec - 100 ISO - 18mm - f3.5



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15 sec - 200 ISO - 42mm - f5.6



20 sec - 250 ISO - 24mm - f5

Neutral Density Filters:

To slow the amount of light coming in

10-stop ND Filter for Daytime

3-stop ND Filter for Golden Hour

and Blue Hour



65 sec - 64 ISO - 24mm - f8



8 sec - 64 ISO - 24mm - f18



30 sec - 64 ISO - 70mm - f14

Silhouettes





1/5000 sec - 400 ISO - 95mm - f8



1/250 sec - 1000 ISO - 300mm - f6.3



1/800 sec - 640 ISO - 105mm - f8

Sunrise - Sunset





1/125 sec - 900 ISO - 32mm - f8



2.5 sec - 100 ISO - 18mm - f11



1/800 sec - 640 ISO - 14mm - f3.5



25 sec - 64 ISO - 28mm - f8



1/800 sec - 1000 ISO - 105mm - f11

Night Sky





JUPITER

SATURN

COMET LEONARD

VENUS





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1/800 sec - 1000 ISO - 105mm - f11



6 sec - 4000 ISO - 24mm - f2.8



15 sec - 5000 ISO - 24mm - f2.8

GENERAL EXPOSURE GUIDE - at f/11 and ISO 100 -

Average outdoor lighting	20 sec
Cityscape	20 sec
Water scenes	20 sec
Fireworks	5-20 sec
Candlelight (indoors)	1 min
Neon signs	2 sec
Fair rides	15 sec
Traffic light trails	30 sec

For images with motion blur, you need to use a slower shutter speed.

If you want to show movement, without blur, you need a faster shutter speed. This means a larger aperture and/or a higher ISO setting.

To keep the static objects sharp and in focus, you need to use a tripod and a remote shutter release.

Architecture generally photographs best color closer to dusk (blue hour) than in the dead of night (brown skies).

THANK YOU!

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