Nightscapes Checklist

These suggestions are for those just starting in Nightscape photography with basic equipment and experience. Experiment and change as you get comfortable.

Setup

Camera Custom Functions and Presets

Learn Infinity Focus position

Mirror Lockup (no?)

Long Exposure Noise Reduction (yes?)

High ISO Noise Reduction (yes?)

LCD Viewfinder Brightness (Dim)

Auto Off (eight minutes +)

Review time (four seconds +)

Picture Quality/File Type (RAW + Large)

White Balance (Tungsten—3400-4400)

Function Dial (Manual)

Image Stabilizer (off)

Auto Focus (off)

Lens Hood (yes), Filter, (no)

Set Self-timer to 2 seconds or program remote

release

Mount Camera

Lock everything that can be locked on tripod

Tie down straps, remote, etc.

Taking an Image

Check Setup

Focus

Aim at bright star (anywhere in sky)

Wide Angle/viewfinder/center and focus

Tele Angle/viewfinder/center and focus

Imaging Zoom Setting/LiveView-LCD Screen/

Loupe

Find star/Position Magnify Box,

Magnify by 10 (highest)

Focus Manually

Remove color fringe

Test Image (Composition)

Aim at subject

Shutter at 10 seconds (more if needed)

Widest aperture (F smallest possible number)

Highest ISO available (6400/12800 is OK)

Take and Evaluate Image

composition

sweep corners

lens aberrations at full aperture

fill frame

local lights/distractions, etc.

Adjust/Repeat until happy

Lock Tripod

Test Image (Exposure)

Apply "Rule of 500" for shutter time

Exposure time=500/focal length

Widest aperture (F smallest possible number)

ISO 800 (more if camera is clean)

Evaluate Image

Histogram—one third across Star shapes—magnify and check corners

Adjust ISO higher if possible

Adjust/Repeat until happy

Final Shots

Set self timer or remote release.

Take several images at any given setting

Do both Horizontal and Vertical Alignment

Vary ISO/Time/Aperture as you like

Take Notes

For Every Exposure:

Take a deep breath

Press shutter/remote button

Wait for self timer (if no remote)

Wait for shutter

Wait for "ICNR" time if used

Review

Light Painting (Highlight foreground)

Diffused Flashlight (or Cellphone)

Wave and move to avoid harsh shadows

Experiment

Processing

Do Not Work on Originals File Explorer or Image Viewer

Fix

Use Filters and Adjustments

Move sliders to make pleasant picture

Change Exposure, Color Balance, etc.

Resources



RIVERSIDE ASTRONOMICAL SOCIETY

Web: The World At Night twanight.org, Wally Pacholka astropics.com Any Search Engine for Nightscape Photography

Print: Photography Night Sky, Jennifer Wu/James Martin, Mountaineer Books The Astro Imaging Channel YouTubes: The Astro Imaging Channel.org 2020.09.20 | Kerry-Ann Lecky Hepburn: Astro Landscape Planning - YouTube Alex Cherney - Nightscape Photography and Time-Lapse Animations - YouTube LIVE: Nightscapes - YouTube

Kerry-Ann Lecky Hepburn: Taking Night Sky Pictures in Less than Ideal Conditions - YouTube

Good People: Riverside Astronomical Society rivastro.org **Presenter:** alexmcconahay@gmail.com alexastro.com