

# ASTROPHOTOGRAPHY CHEAT SHEET

## 10 steps to using your camera in the dark

The following is a handy reference guide to complement the Kielder Observatory Astrophotography events. Familiarise yourselves with these 10 steps to assist you in operating your camera in darkness and taking photographs of the night sky.



### TIP 1

#### INFINITY FOCUS



Focusing a camera lens in the dark can be difficult. Learn where infinity focus lies on your camera lens before heading out and remember to turn off autofocus.

### TIP 2

#### ISO



**Recommended setting 1600.** Increasing ISO sensitivity allows your camera to collect light faster. But beware, pushing it too high may add unwanted 'noise' to your image.

### TIP 3

#### APERTURE



**Recommended setting 1/4 or lower.** This determines the size of the hole that light passes through on your lens. The lower the number, the bigger the hole and the more light that will reach your camera sensor.

### TIP 4

#### SHUTTER SPEED



**Recommended setting 20 seconds (30" )** Under low light conditions your camera will need to expose for a longer period of time. So long in fact that keeping it still will be an issue (See Tip 6).

### TIP 5

#### THE '500' RULE

$$600 / f = T$$

A guide to calculating the maximum exposure time you can use before star trails begin to appear in your photograph. Divide 600 by the focal length of your lens. ie  $600 / 18 = 33$  seconds.

\*Tips 2-4 are a single subset called the Exposure Triangle

### TIP 6

#### REDUCE MOVEMENT



Any photograph exposed for longer than 1/1000th second requires camera stabilisation. A tripod is essential. An intervalometer can be useful for timeapses. A camera setting called 'mirror lockup' will reduce shutter shake.

### TIP 7

#### WHITE BALANCE



**Recommended setting 3200K.** Although not technically correct, a cooler white balance will result in a more visually pleasing blue sky. Set your camera to shoot in RAW and you can adjust white balance later without any loss in image quality.

### TIP 8

#### KEEP YOUR LENS WARM



If the temperature of your lens' glass drops below the ambient temperature unwanted dew will form on the surface. Manage this with dedicated lens warmers or keep a spare in a warm place.

### TIP 9

#### DARK SKIES



Finding a location you can familiarise yourself with is easier than navigating an unknown field in the dark. To find your closest dark sky location use an online resource like [DarkSkyDiscovery.org.uk](http://DarkSkyDiscovery.org.uk)

### TIP 10

#### LEARN HOW TO FIND NORTH



Whether you're interested in capturing the Aurora Borealis or recording star trails, finding the North Star Polaris in the night sky is essential for navigating the stars.

Please note that the above tips and settings are meant as a guide only on preparing your camera for night time photography. Different locations, environments and equipment will require altering camera settings to suit.

Software Packages - ADOBE LIGHTROOM & PHOTOSHOP (essential for any form of photography practice) - GIMP (powerful, free software for image editing)

- STARTRAK Star's images to create one single frame of star trails. - LPTIMELAPSE Powerful time lapse creation tool that works with Adobe Lightroom.

# Astrophotography Guide

**RM Cervero**



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