

Super Resolution Shooting & High Dynamic Range

Super Resolution Shooting

- What is Super Resolution Shooting?
 - Technique of using a lower resolution camera to take a higher resolution image.
- Why bother?
 - If you have a scene that you think would look great as an enlarged print, then this can be helpful to ensure you have enough resolution for the desired print size.

Super Resolution Shooting

- Method:
 - Will work with any camera
 - Shoot handheld
 - Relies on the slight shift of the camera.
 - Do not use a tripod.
 - Sampling the scene several times with a slight shift of the pixels (movement) to.
 - Keep ISO low to ensure best image quality.
 - Aperture between f/5.6 and f/11
 - Fast enough shutter speed to prevent motion blur
 - Raw file format
 - 10 – 20 frames: continuous burst mode if available

Super Resolution Shooting

- Post Processing Steps:

High Dynamic Range (HDR) Shooting

- What is HDR?
 - Some scenes have such a wide range of luminosity that it is impossible to capture the entire scene accurately because our camera sensors do not have as much dynamic range as our eyes.
 - So how do you capture scenes that have such a wide dynamic range of bright and darks accurately?
 - Multiple images with different exposure
 - Methods:
 - Manually
 - Automatic exposure bracketing

High Dynamic Range (HDR) Shooting

- Post Processing Techniques
 - Manually blend different exposures
 - Use software to blend the exposures:
 - Options
 - Lightroom
 - Photoshop
 - Photomatix
 - Nik Collection – HDR Efex
 - SNS HDR Pro