What To Bring

I consider the following items important. You can learn more about them at the workshop, but I made this checklist as a reminder to bring them if you already own them. **Items essential to this workshop are in bold**. You might also consider renting lenses, cameras or other gear from [Lens Pro To Go](https://www.lensprotogo.com) or other rental companies.

Contact Mark Bowie at [mbowiephoto@gmail.com](mailto:mbowiephoto@gmail.com) or 413-442-9125 with questions.

**Photo Equipment**

**Camera** – DSLR or mirrorless, full frame or cropped sensor. Also, bring the **Camera Manual** should you need to consult it.

**Lenses** – There will likely be photo opportunities for your full range of lenses, from extreme wide angle to telephoto and macro. I use 14-24mm, 24-70mm, 80-200mm and 80-400 lenses, and a 105mm macro lens. When buying lenses, I recommend buying the best quality you can afford, with maximum apertures of f/2.8 or wider for landscape work (especially useful for night photography).

**Non-abrasive Lens Cleaning Cloth and Wipes.**

**Tripod** – Sunrise, sunset, twilight and nighttime light levels are too low to photograph properly without a *sturdy* tripod. I recommend buying a lightweight carbon fiber tripod with a ball head (I like Induro and Gitzo brands). Expect to pay $300-$400 for the set. Watch [Hunt’s Photo](http://www.huntsphotoandvideo.com) for sales. A quality set should last many years.

**Lots of Memory Card Storage** – I use fast 64-128GB cards, good for stills & video.

**Camera Battery Charger and Extra Batteries.**

Sensor Cleaning Tools — To remove dust and debris from the sensor. I use Eclipse solution and Sensor Swabs Ultra from [Photographic Solutions](http://photosol.com/products/).

**Polarizing Filter.**

Neutral Density Filters, Graduated Neutral Density Filters – I use [Tiffen](https://tiffen.com/tiffen-filters/) 3- and 6-stop IR-ND neutral density filters. I can also recommend ND filters from Kase or Breakthrough Filters. They have minimal color casting. I also use [Singh-Ray](http://www.singh-ray.com) 2-stop soft- and 3-stop hard-edge graduated filters.

**Shutter Release** ­­– You can use a locking cable release, a wireless remote, or the camera’s self-timer (except in BULB). Shutter releases are available for specific camera models, from simple units that only trip the shutter, to more advanced units with intervalometers that allow you to program exposure time, count down the exposure, shoot multiple exposures and timed intervals. These are available from [Hunt’s Photo](http://www.huntsphotoandvideo.com) and [B&H Photo-Video](https://www.bhphotovideo.com). I use the [Vello Shutterboss](https://www.bhphotovideo.com/c/search?Ntt=Vello%20Shutterboss%20&N=0&InitialSearch=yes&sts=ma&Top+Nav-Search=) III ($99) wireless intervalometer for shooting time-lapses. I also use my Nikon Z6’s internal intervalometer to shoot time-lapses.

**Flashlight &/or Headlamp** – For seeing in the dark and for light painting. Bring larger lights for light painting if you’d like. LED flashlights are particularly small & powerful. I use the [Coast](https://coastportland.com/) HP7R. [Fenix](https://www.fenixlighting.com/) also makes quality LED flashlights.

Continuous Lights – for light painting. I use the [F&V Lighting Z96 UltraColor LED Video Light](https://www.fvlighting.com/z96-ultracolor-led-video-light-95-cri.html) and the smaller [Aputure AL-M9 Amaran LED Light](https://products.aputure.com/al-m9-mobile/).

Eyepiece Cover/Small Towel/Gaffer’s Tape – to cover the viewfinder and prevent stray light from impacting the sensor of a DSLR.

**Rain/Snow Cover** – For camera and lens protection. An inexpensive plastic shower cap works well in many instances. I also use [Op-Tech plastic rain sleeves](https://optechusa.com/rainsleeve.html) that have a drawstring at one end and that slide over camera & lenses. A set of 2 costs about $6.

**Battery-powered Alarm Clock/Watch** – In case cell phone service isn’t available. It’s better to bring your own alarm than miss a morning shoot!

Cell Phone.

**Computer Equipment**

**Laptop Computer** – I highly recommend bringing your own laptop computer for downloading, processing and viewing your images. If you borrow a laptop, make sure that you are familiar with its use.

**Processing Software** – Good choices include [Adobe](https://www.adobe.com) Lightroom, Photoshop, or Elements. I use [Adobe’s Creative Cloud Photography Plan](https://www.adobe.com/creativecloud/plans.html?promoid=6NCS7DGT&mv=other), which includes Lightroom & Photoshop CC, for about $10/month. Free 30-day trials of these programs are available.

Noise Reduction & Sharpening Software – I use Lightroom’s Denoise primarily, and can recommend [DXO’s](https://www.dxo.com/) PhotoLab and PureRAW, and [Topaz Labs’](https://www.topazlabs.com/) Photo AI, DeNoise AI and Sharpen AI.

**Power Strip** – Please bring if convenient. For easy access to power.

Back-up device – Such as an external hard drive.

Flash Drive – For sharing images.

**Clothing & Outdoor Gear**

Historical average temperatures for the Lake Placid area in January vary from a low of 6 to a high of 24 degrees. It’s preferable to dress in several warm layers as temperatures can change significantly and quickly.

**Warm Winter Coat and Pants, Gloves/Mittens, Hat, and Winter Boots. Several pairs of warm, moisture-wicking socks.** Balaclava to shield your face. I can recommend winter boots from [Baffin](http://www.baffin.com). They make boots for extreme climates at reasonable prices. Mine are rated to -40 degrees F.

Fleece Under Layer/Wool Sweater – Can be added or removed as the temperature changes.

Rain Jacket & Pants – For rain and wind protection.

Hand/Foot warmers.

Snowshoes/Cross-Country Skis – For exploring beautiful snowy forests.

Ice grippers for boots – See those from [Yaktrax](https://www.yaktrax.com).

Dress for the indoor sessions will be casual.

Water bottle.

Energy bars or other snacks.