What To Bring

We consider the following items important. You can learn more about them at the workshop, but we 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.

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

Chris Murray at [chris@chrismurrayphotography.com](mailto:chris@chrismurrayphotography.com), 315-416-8038

Photo Equipment

**Camera – and extra camera body if you have one, just in case.** – 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. We use lenses from 14-400mm (full-frame equivalent) for waterfalls and streams. When buying lenses, we recommend getting the best quality you can afford, with maximum apertures of f/2.8 or wider for landscape work.

**Tripod** – For long exposures of flowing water a sturdy tripod is a MUST. We recommend buying a lightweight carbon fiber tripod (Mark likes Induro and Gitzo brands) with a ball head. 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.** We use fast 64GB and 128 GB cards, good for both stills and video.

**Camera Battery Charger and Extra Batteries.**

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

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

**Polarizing Filter** — for all your lenses.

Neutral Density Filters, Graduated Neutral Density Filters – Mark uses [Tiffen](https://tiffen.com/tiffen-filters/) 3- and 6-stop IR-ND neutral density filters. He can also recommend ND filters from Kase or Breakthrough Filters. He also uses [Singh-Ray](http://www.singh-ray.com) 2-stop soft- and 3-stop hard-edge graduated filters. Lee Filters also makes quality filters. See [www.leefilters.com](http://www.leefilters.com).

**Shutter Release** ­­– You can use a wired 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 the photographer to program exposure time, count down the exposure, shoot multiple exposures and timed intervals. Mark uses 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. He also uses his Nikon Z6’s internal intervalometer to shoot time-lapses.

Rain Cover – For camera and lens protection. An inexpensive plastic shower cap works well in many instances. Mark uses [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** – We highly recommend bringing your own laptop computer for downloading, processing and viewing your images.

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

Noise Reduction & Sharpening Software – We can also recommend [DXO’s](https://www.dxo.com/) PhotoLab and PureRAW, or [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 Ithaca, NY in June vary from a low of 53 to a high of 76 degrees. It’s preferable to dress in several warm layers as temperatures can change significantly and quickly.

**Warm Coat and Pants**

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

**Rain Jacket & Rain Pants** – For rain and wind protection.

**Hat**

**Hiking Boots** – preferably waterproof

Wading boots or sandals – Two pair of footwear is wise, in case one gets wet. Sandals and muck boots are great for wading in the streams.

Dress for the indoor sessions will be casual.

Water bottle.

Energy bars or other snacks.