



PowerFilm Logo

Quarter 1, 2017



The Current PowerFilm Newsletter

## PowerFilm On The Road

### Consumer Electronics Show

PowerFilm will be exhibiting at three upcoming tradeshows in January and February. We will be at the Consumer Electronic Show (CES) from January 5-8 in the Las Vegas Convention Center. We will be featuring the LightSaver M-2/LightSaver Max among other PowerFilm capabilities such as custom solutions and low-light technologies.

### Golf Industry Show

In February we will be attending the Golf Industry Show (GIS) from Feb. 7-9 at the Orange County Convention Center in Orlando, Florida. GIS is the culmination of a Marketing Campaign re-launching the PowerDrive Golf Car Solar Panel. We are excited to show golf industry leaders how solar can help take their golf cars to a whole new level.

### HamCation

Following the GIS show we will be at HamCation in Orlando on February 10th and part of the 11th with Alpha Antenna in booth 61 and 62. Alpha specializes in high quality easy-setup antennas, ideal for Ham radio operators, and has extended an opportunity to display our products in their booth.

[More PowerFilm News](#)

## The Best IoT Power Source May Be A Surprise



Frank Jeffrey Electronic Design Article

PowerFilm's CEO and Co-founder, Frank Jeffrey, recently published an article outlining why amorphous-silicon solar material is a perfect power source for IoT solutions:

"Some have called the Internet of Things (IoT): "A world where the real, digital, and the virtual are converging to create smart environments that make energy, transport, cities and many other areas more intelligent." Some projections have 50 billion devices connected to the internet by 2020. IoT is not science fiction; it's not even brand new. Nonetheless, it's growing at an incredible pace."

[Read The Article](#)

## 101st Air Assault Division Tactical Demonstration

2016 was busy for our Military Sales Department and the year flew by with conferences, entry into new markets, developing additional relationships and building new teams. The year culminated with a visit to Ft. Campbell, KY to demonstrate PowerFilm's solar power solutions to units of the 101st Air Assault Division.

The 101st is an Air Assault Infantry Division that deploys their soldiers and war-fighting equipment into battle using heavy and medium lift helicopters. These highly coordinated and complex operations provide the US military with a unique set of capabilities on the battlefield. However, this ability to quickly move large forces deep into the battle space, far from normal infrastructure, creates both a tactical advantage and an energy challenge.

Combat units that have air assaulted such great distances on the battlefield often find themselves in austere environments where electricity to charge their electronics is hard to come by. PowerFilm demonstrated to the 101st how using solar panels and chargers in these operational environments can overcome this "electricity" obstacle by providing remote power – any place and any time. Among the products and systems displayed were the man-portable 60 watt and 120 watt foldable solar panels perfect for use by soldiers for their individual and small system power needs and the 1.8Kw PowerShade ideal for powering Tactical Operations Centers and other command post needs. Both the foldable line of solar panels and the PowerShade can be configured with additional panels to provide even more power.

The visit was a success and PowerFilm is looking forward to even more tactical demonstrations in 2017.

## PowerFilm Partners With AZT For A Second Year



Arizona Trail Logo

PowerFilm has sponsored the Arizona Trail (AZT) for a second year and is excited about what the trail has in store for 2017. The AZT, per the trails website, is, "a continuous, 800+ mile diverse and scenic trail across Arizona from Mexico to Utah. It links deserts, mountains, canyons, communities and people."

PowerFilm is excited to help support the AZT's mission of "protecting, maintaining, enhancing, promoting and sustaining the Arizona Trail as a unique encounter with the land."

Our latest product, the LightSaver, is a perfect trail accessory and one that thru hiker, Karrie Kressler used to hike all 800 miles of the trail! She noted that the LightSaver, "soaked up the desert sun rays more efficiently than solar chargers we've tried in the past. Always opting for less bulk on lightweight backpacking trips, I was also grateful for its compact design."

The AZT's Executive Director, Matthew Nelson reviewed the LightSaver this past spring and you can read his review on page four of the spring newsletter [here](#).

To learn how you can help support the AZT click below.

[More Information](#)

## Development Kits Now Available



Indoor Low-Light Development Kit

PowerFilm is now offering an Indoor Low-Light Development Kit to those interested in our solar technology and its limitless applications. The kits include two PowerFilm LL337 Low-Light OEM modules, a circuit board with an energy harvesting chip, a battery and screw terminals for easy connection. These kits will allow experimentation with PowerFilm's industry leading low-light solar panels in whatever environment you choose. Interested? Click below and learn more.

[Development Kit Information](#)

## What's The Difference Between Solar Panels?



What's The Difference Between Solar Panels?

Machine Design writer, Jeff Kerns, published an article comparing different types of photovoltaics quoting Dr. Frank Jeffrey [multiple times](#). The article also features a [PowerFilm video of a rollable panel being shot](#) demonstrating the incredibly durability of PowerFilm's thin film solar technology.

"Solar panels or photovoltaics (PVs) are not new in terms of the technology. However, manufacturing processes, cost reduction, and new research has some engineers thinking that photovoltaics will rival traditional power sources, such as coal. How important is Big Solar going to be? And what are the differences between the different types of photovoltaics?"

[Read The Article](#)

## PowerFilm To Power World Record Attempt



Just Around The Pointe Graphic

In March, ultra-endurance competitive kayaker, Traci Lynn Martin will start her 8,600 mile journey to break the world record for longest non-stop paddling trip by kayak in one year. PowerFilm is proud to partner with Traci and provide her with power on her journey! She will be using customized rollable solar panels that tounour to her kayak and can stand up to the rough waters during her journey. To learn more about Traci's journey and her incredible team and sponsors click below!

[Learn More](#)

## LightSaver Max Campaign a Success

The LightSaver Max Indiegogo crowdfunding campaign continues its success raising over \$89,000. The product will be delivered to backers in March of 2017. Interested in the LightSaver Max? The product is still available! Click below to see the Light in Action and learn more about the project!



LightSaver Max Campaign Video

[About The Max Campaign](#)

## The Gear Institute 2016 Solar Panel Review



The Gear Institute 2016 Solar Panel Review

In a test to determine the best solar panels of 2016 PowerFilm's 20 Watt panel performed exceptionally well finishing in a tie for second place. A stellar finish with the only knock being price, not surprising compared to panels with far less voltage and application flexibility. The panel was noted as having "excellent power output, outstanding durability, and outstanding versatility."

[Read The Review](#)

## Everything Must Go Solar Panel Sale



Amazon Solar Panel Sale

We are running a sale on older model solar panels on Amazon. Take advantage of these savings while the sale lasts!

[See Whats On Sale](#)

## The Horizon Blog



Why PowerFilm Blog Post

[Read The Post](#)



PowerDrive Solar Panel The Numbers Blog Post

[Read The Post](#)



What Do You Think Blog Post

[Read The Post](#)



Looking Back Blog Post

[Read The Post](#)

## Let's Work Together

Do you have portable power needs? We can help. Give us a call or send an email and we can create a customized solution together.

## Questions?

[Email Us](#)  
Call Us: 888-354-7773

We look forward to hearing from you!

## Innovative Energy Solutions

