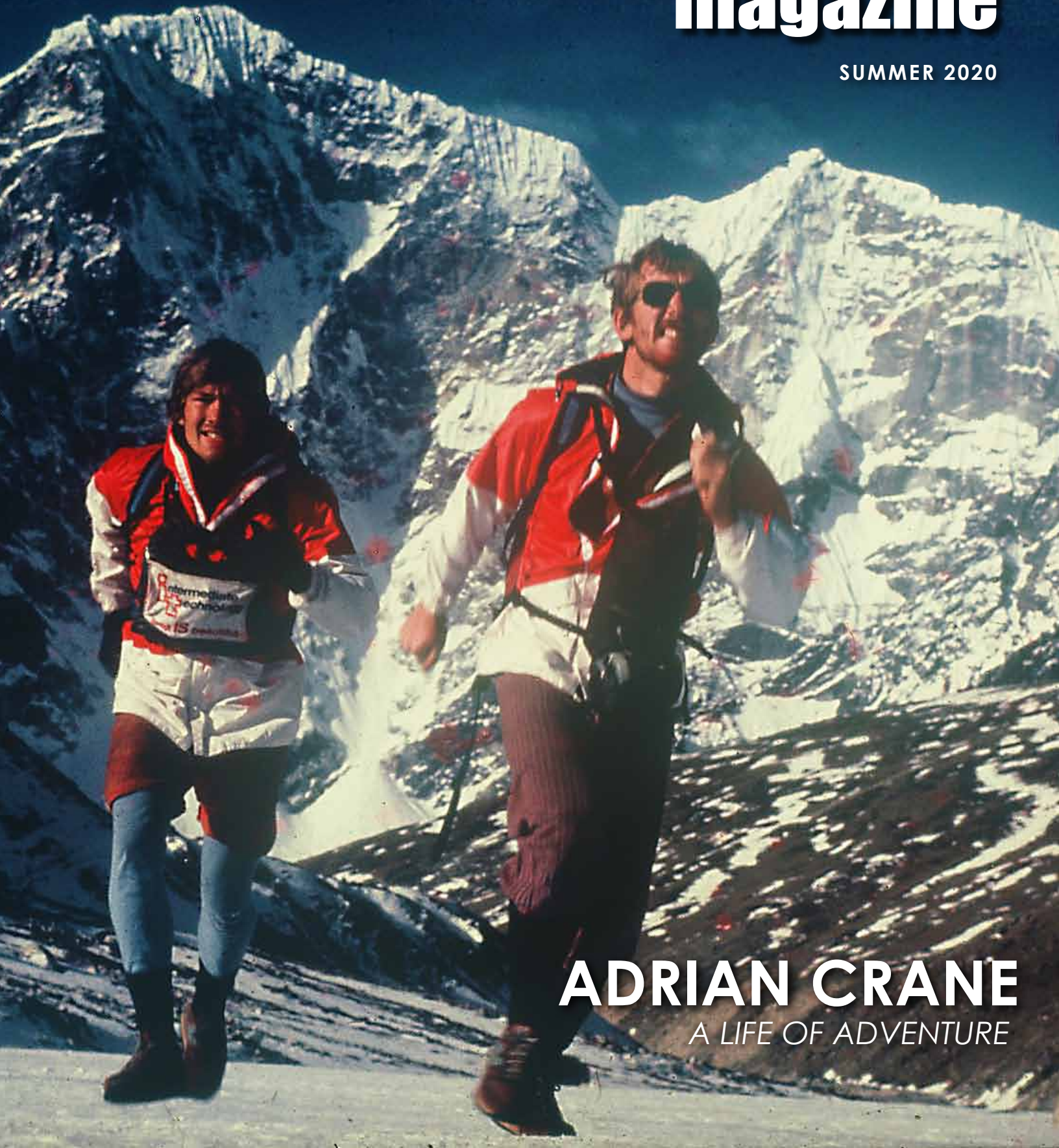


# Adventure World magazine

SUMMER 2020



**ADRIAN CRANE**  
A LIFE OF ADVENTURE





05



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SUMMER 2020



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# SKIN IN THE RACE?



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# ADRIAN CRANE

## A LIFE OF

# ADVENTURE!

**What are some of the experiences from your childhood and early adult life that helped prepare you for adventure racing?**

My father and uncle liked to climb and hike and took myself, brothers and cousins into the British hills and mountains. What I like to call a 'critical mass of enthusiasm' kept us exploring and pushing our limits and we found that we rarely came up against anything we could not at least attempt even if we sometimes couldn't complete it as planned. After college, in order that my brother and I could settle down and concentrate on careers, we dreamt up the toughest trip we could imagine so that we could attempt it, fail, and know that we had found our limits. Fortunately,



the plan did not work. Using a large dose of naivety and persistence, we completed a 2000 mile run in 101 days along the Himalayas. That trip has freed me up to be willing to try just about anything without the fear of failure. Things that I think may be impossible, I often find to be possible, which is a good approach to adventure racing.





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**What are some of the biggest outdoor adventures/ accomplishments in your life?**

- Running the Himalayas - 2000 miles in 1983.
- Guinness book high altitude cycling record - 20,000 feet, Chimborazo 1988.
- Hi Tec 50 peaks - high point of every state in 101 days 1990.
- Speed record for Colorado 14ers 1993.
- Competed in 5 Alaska Mountain and Wilderness classics.
- Competed in all Eco Challenges and 4 Raid Gauloises adventure races.
- Climbed California 14ers 2012.
- Multiple Denali and Aconcagua summits.
- Three Everest summit attempts.
- Aconcagua summit to sea – 23,000 feet of descent in less than 24hours manpowered.



**When did you start adventure racing?**

I was lucky enough to be asked by Angelica Alvarez to join a team for Eco Challenge Utah in 1995. That was the first real adventure race, but I did compete in several 'Alaska Mountain and Wilderness Challenges' in the early 1990's that could be considered one of several pre-cursors to AR.

**What was it about adventure racing that made you want to give it a try?**

I was already active in orienteering, mountaineering and ultra-running, so I thought I might be a good fit, and have an advantage over better athletes who didn't have such all-around experience.

**How many adventure races have you competed in?**

Probably 25, mostly multi day expedition style races such as the Eco Challenge, Raid Gauloises and Primal Quest plus a few 24 hour events. That would add up to something well over 100 days of racing.

**How may Eco Challenges have you competed in?**

I have competed in all the Eco Challenge events including the X Games New England in 1995 and the recent 2019 in Fiji. Ten in total.









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### **What was your single most challenging moment in an adventure race?**

The most physically challenging moment would be the many times when I was on my limit. Of course, the whole point of multi day racing is to race hard all the way and any time you get to a point where one moment is harder then you failed to pace yourself. I do remember one particularly grueling uphill climb on the Raid Gauloises Argentina. Mentally challenging and white knuckle would be the paddle down the Atlantic coast in the Eco Challenge Morocco; big waves, a long way offshore. My most intellectually challenging are those times when you make a navigation mistake and have to recover from it, at the same time as feeling sorry for putting you and your teammates through extra distance in the wrong direction.

### **What was your favorite moment in an adventure race and why?**

I have had many wonderful times on races. The big ropes courses in Morocco, Utah and British Colombia. The sailing and paddling in Borneo and Fiji. The occasional oasis when you can indulge with teammates. On balance, I would say that seeing the time hit 6:30 pm during a rafting leg on the Raid Himalaya and being forced to pull off the river and make camp on a warm lonely beach.

### **Why did you start producing adventure races?**

I wanted to introduce people to the fantastic experiences that adventure races can provide. The camaraderie, the self- reliance, the scenery. Also, to put on shorter events that would enable people to learn enough to compete in full or multi day events where they could really experience the same fun that I have been so privileged to find.



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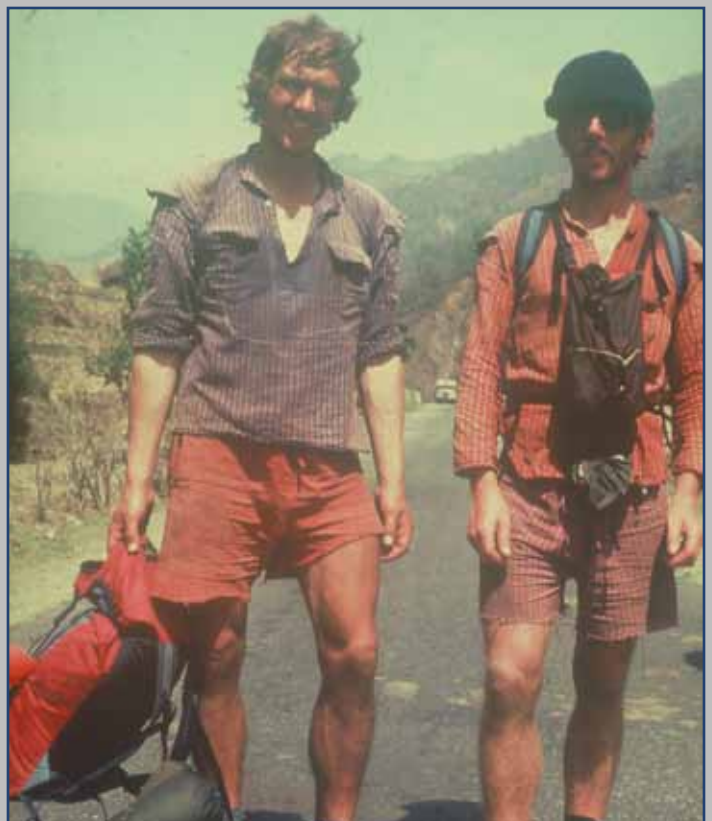


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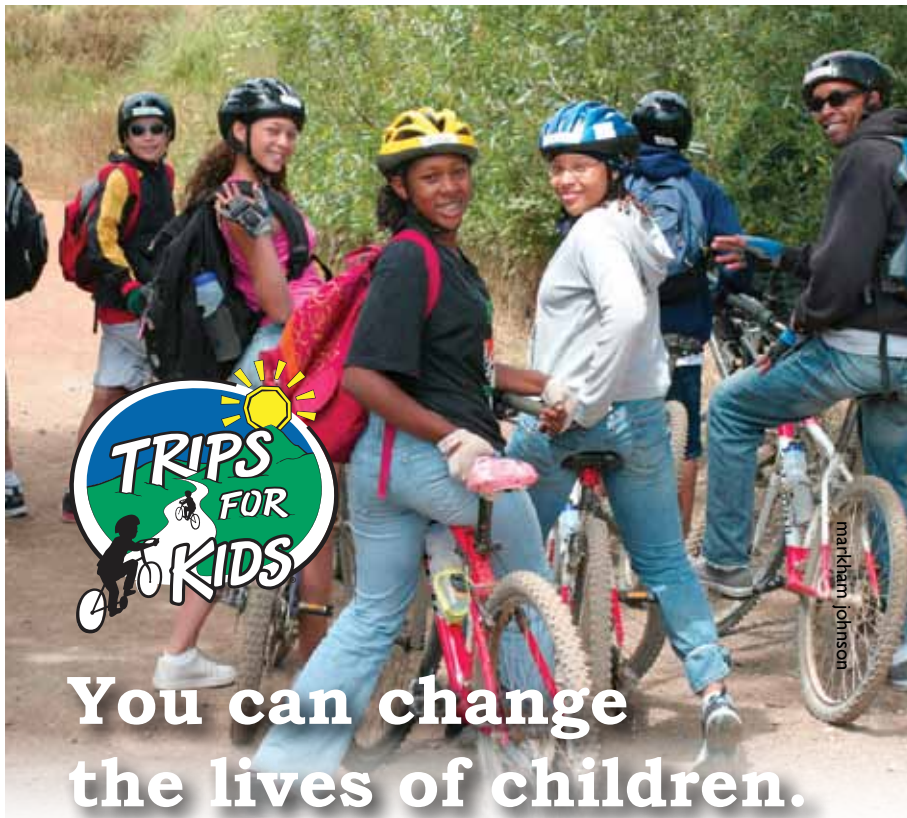
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**What are some ways that adventure racing has made your life better?**

I have seen some fabulous parts of the world in a detail that would never happen without a race to get me there. I have ended up in many wonderful situations that make me smile when I think of them. I have met many like-minded people who have become longtime friends and with whom I have shared more adventures. When an annoyance of daily life appears, I can handle it with no problem by thinking of what I have been through in a race.

**What would you say to someone who is thinking about trying an adventure race?**

I would say that the best way to prepare for a first race is just to do one. If you go to a race and fail you will have learned what to improve for the next one. If you do better than fail, you will be started on the best entertainment on offer. I have never met an adventure racer who wasn't fired up at every finish line. (well I did have this one niece!). **AW**





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# RV PRODUCT REVIEWS

## Tow Rax Aluminum Battery Box

The Tow Rax Aluminum Battery Box is a great upgrade for any travel trailer, cargo trailer or car hauler. The box comes equipped with dual latches that securely hold the top in place and dual battery cable openings with grommets that provide a tight seal. Tow Rax supplies mounting hardware and a battery hold down clamp that ensures your battery stays in place along with a vent hole with tubing. The Tow Rax Aluminum Battery Box is available in 2 sizes with a polished or machine finish. Throw away that old junky plastic battery box and upgrade to a Tow Rax Aluminum Battery Box. [www.phoenixusa.com](http://www.phoenixusa.com)



## GCI Kickback Rocker

The GCI Kickback Rocker is really quite ingenious and one of the newest additions to GCI's rocker line. GCI has combined the comfort of a rocking chair with the portable convenience of a bag chair that quickly and easily folds up for transport. The rocker features spring action rocking technology, which allow the chair to rock on any surface. Weighing in at just over 10 pounds, the powder-coated steel framed rocker will support 250 pounds, has a drink holder, a phone holder and a built-in carry strap. The GCI Kickback Rocker sits a little lower at 17.1 inches which is more comfortable for many users and for the little ones. Pick up a GCI Kickback Rocker and get to rockin. [www.gcioutdoor.com](http://www.gcioutdoor.com)





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### NomadiQ Grill

The NomadiQ portable BBQ grill is one of the coolest portable grills we have ever tested. The grill folds up into a small enough package (16"x14"x6") that you can literally take it on a bike or skateboard using the included carrying strap. When you get ready to grill simply unlock and open the grill, connect the hoses and start grilling – the whole process takes less than a minute. The compact grill has a generous 226 inches of grilling space, features dual temperature controls, a built-in ignitor, drip trays, a pair of dish washer safe nonstick removable grates and an optional protection pouch. The sleek aluminum NomadiQ weighs in at 12 pounds, gives you 9200 BTU's of grilling power and is backed by a 5-year warranty. NomadiQ has redefined portable grills with their compact and portable work of art that is guaranteed to turn every head in the park. [www.nomadiqbbq.com](http://www.nomadiqbbq.com)



### Ignik Gas Growler

48 million single-use green propane bottles end up in landfills each year, which is a major problem. The Ignik Gas Growler solves this problem by holding the equivalent of 5 green bottles. The cost to fill the compact 5-pound Ignik Gas Growler is about the same as purchasing one green bottle giving you five times as much gas for the price and not creating any trash. The Growler comes with a durable zippered padded carrying case that cradles and protects the tank while insulating the propane. The case features a padded webbing handle and two rows of molle webbing for securing the tank or attaching additional items. The Growler also comes equipped with a standard propane tank valve and a connection hose designed for devices that use small green bottles. So, grab an Ignik Gas Growler, start saving some money, saving the planet and enjoying the outdoors. <https://ignik.com>



### Solo Stove Sticks

Are you tired of slipping a marshmallow on a nasty, rusty wire that is too short and has degraded so quickly that it is basically a one-time use and throw away item? Then get yourself a set of stainless-steel Solo Stove Sticks. The dual pronged tool is 36 inches long which keeps your hand far enough away from the fire to keep it from burning and the Sticks are equipped with a large, easy to grip handle. When you are done simple untwist your sticks and store the 2 pieces in the handy carrying case. Solo Stove Sticks have set a new standard for grilling sticks and this is the tool to have for marshmallow, hot dog or whatever else you want to roast on your next campout. The Solo Stove Sticks come in a 4-piece set are guaranteed to give you years of faithful roasting service. [www.solostove.com](http://www.solostove.com)

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### Quick Products JQ 3500-7P Tongue Jack with 7 Way Plug

The Quick Products JQ 3500-7P Tongue Jack with 7 Way Plug gives you the freedom to run your trailer's tongue jack from your vehicle's 7-way plug. Perfect for a cargo trailer or car hauler trailer that does not have an on board battery, or if you want to quit maintaining a travel trailer battery that you only use for the tongue jack. The Quick Products tongue jack provides 18 inches of travel, which is handy when installing stabilizer bars. Available in black or white, the jack also features heavy-duty hardened steel gears, a built-in bullseye leveling bubble, an LED light, a manual crank override, a vinyl cover and 3650-pound max capacity all backed by Quick Products one-year no-hassle warranty. End the hassle of maintaining a battery charge and switch to the Quick Products JQ 3500-7P Tongue Jack with 7 Way Plug. [www.quickproducts1.com](http://www.quickproducts1.com)



### Flame King Smart Propane Scale

The Flame King Smart Propane Scale links wirelessly with your phone to track the weight of a propane cylinder and tell you how much time you have left on the cylinder. The durable and reliable Smart Propane Scale can track 20, 30 or 40 pound tanks and works with iPhone or Android. The scale also gives you the ability to store your readings with a time stamp so you can keep track of how much propane was last recorded in the cylinder. Get a Flame King Smart Propane Scale and never worry about running out of propane again. [www.flameking.com](http://www.flameking.com) **AW**



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# UNIQUE TRAVEL TRAILER **STORAGE** **SOLUTIONS**

---

Whether you are heading out for a long weekend or embarking on a multi month adventure, one thing you can never get enough of is travel trailer storage. We all get tired of tripping over equipment that we need to run our trailer or dancing around equipment that we want to bring along for recreation while on our outings. Then, once we arrive at our campsite, the equipment goes outside with hopes that it will not disappear while you are away from camp. We found some unique solutions to these storage problems that can add significant storage options to your travel trailer. These solutions allow you to bring and safely store the equipment you need while removing that equipment out from under your feet. We utilized two of the best underbody tool boxes available to add some big and secure storage boxes to the exterior of our travel trailer. We also found a unique solution for adding a bike rack receiver or a large storage tray from Stomberg Carlson that provides the option of switching back and forth between the two products. The Malone Hanger HM4 allows you to add 4 bikes to the bike bunk, really utilizing every bit of available space. We also added a couple of our own inexpensive storage solutions that can be picked up at any hardware or electrical supply stores that really rounded out our storage needs. So, check out these great solutions and get creative with your own ideas as you increase your storage capabilities on your travel trailer.



## RC Industries M Series Underbody Tool Box

The RC Industries M Series Underbody Tool Box is a heavy duty, US made under body box that will give you years of service. The tool box has a stainless-steel hinge and is available with single or double swing down pan formed doors. The RC Industries box features an anchor compression latch with a keyed cylinder lock, heavy-duty door retainer chains and an automotive styled bulb seal to keep the elements out. Everything can be customized at RC Industries starting with the tool box materials which are available in 10, 12, 13 or 14 gauge steel, .100 or .125 (1/8th") smooth and diamond bright aluminum, 14 Gauge bright stainless steel or 12 gauge brushed stainless steel. There are 7 different finishes to choose from and RC Industries can create just about any custom touch you desire. The RC Industries M Series Underbody Tool Box is a great toolbox and the perfect choice for adding additional exterior storage to your travel trailer. Install a RC Industries Underbody Tool Box and start enjoying years of additional maintenance free storage from a heavy-duty performer. [www.rctoolbox.com](http://www.rctoolbox.com)



## Stromberg Carlson Trailer Tray

The Stromberg Carlson Trailer Tray is a simple way to quickly add storage to the softest riding area of your travel trailer. The adjustable bolt on steel tray fits most "A" frame trailers and will support up to 300 pounds of cargo. The tray is 24 inches wide in the front, 32 inches wide in the back and 20 inches deep providing the perfect platform for coolers, storage boxes or a generator. The bent vertical tube design accommodates standard LP tanks while giving you a large stable tray for storage. Simple to install, the US made Stromberg Carlson Trailer Tray is a great way to gain valuable storage space. [www.strombergcarlson.com](http://www.strombergcarlson.com)



## Malone Hanger HM 4

The Malone Hanger HM 4 is a sturdy, easy to use 4 bike rack. The Hanger HM4 is loaded with features starting with adjustable strapped & padded anti-sway cradles and a padded mast that protect your bikes during transport. The rack is compatible with 1 1/4" and 2" receivers, tilts away to make access to tailgates easy and has a built-in retractable security cable. The support arms fold down when not in use and the Malone rack includes a cam buckle strap to eliminate wheel rotation and secure the bikes to the mast. The Hanger has a lifetime limited warranty and comes with an anti-wobble locking hitch pin that stabilizes the carrier on the bumpiest roads. Weighing in at 22 pounds the Malone Hanger HM 4 has a load capacity of 33 pounds per bike – that's 132 pounds! This is a versatile rack that works great on the back of your vehicle and is a perfect match for the Stromberg Carlson Bike Bunk. The sturdy light weight rack makes it possible to carry 4 bikes and not exceed the Bike Bunks 100-pound maximum capacity. The Malone Hanger HM 4 is a great rack packed full of features that will help get you and your bikes to your next adventure. <https://maloneautoracks.com>







## Stromberg Carlson Bike Bunk

The Stromberg Carlson Bike Bunk provides an easy solution that allows you to transport your bikes on your next travel trailer adventure. The US made steel Bike Bunk accepts standard 2-inch receiver hitches and will hold up to 100 pounds. The Bike Bunk uses the same bent vertical tube design as the Trailer Tray accommodating standard LP tanks. This also gives the user the ability to quickly swap back and forth between the Bike Bunk and the Trailer Tray depending upon your needs for the trip. The Stromberg Carlson Bike Bunk is a must have accessory that makes it easy to take your bikes along on your next trip. [www.strombergcarlson.com](http://www.strombergcarlson.com)



## Weather Guard Under Bed Box

The Weather Guard Under Bed Box is available in a variety of sizes and the perfect way to add storage space to your travel trailer or truck. Weather Guard starts with a heavy-duty three-point lockable latching system combined with a rain gutter and weather seal which keep both moisture and strangers out of your box insuring your gear is safe. Weather Guard follows that up with a gloss black ARMOR TUF Powder Coat finish to protect the exterior of your box in any environment. The stainless-steel D-handle is easy to grip with gloves on in cold, wet weather and creates a tight seal when closed. The generous door opening swings down making it easy to access large gear and utilize all of the 2.3 cubic feet of storage space. Weather Guard even included a tool-less quick release allowing the door to go from a 90 degree to 180 degree opening in a snap. The Weather Guard Under Bed Box is built to handle heavy items, built to last and those promises are backed by Weather Guards limited lifetime warranty. Install a Weather Guard Under Bed Box and enjoy additional heavy-duty storage on your next adventure. [www.weatherguard.com](http://www.weatherguard.com)



## Sewer Hose Storage

Our travel trailer is a toy hauler which means there is no hollow rear bumper for storing the sewer hose which presents a real problem – where do you store the hose while driving? Once we decided we didn't want to store the hose in our bed or refrigerator we cut a 6-foot-long piece of 5-inch PVC pipe and capped both ends with a cleanout plug. Next, we drilled a few holes in the pipe so it would self-drain once the sewer hose was stored. Finally, we zip tied the PVC pipe under the trailer which gave us the perfect storage solution for our sewer hose.



## Sewer Elbow Storage Box

The sewer hose has a removable elbow that also needs a storage space. After drilling a few holes in the bottom so the box would self-drain, we attached a plastic Kraloy 887 junction box to the frame which provided a secure storage box for both the elbow and our box of rubber gloves. **AW**



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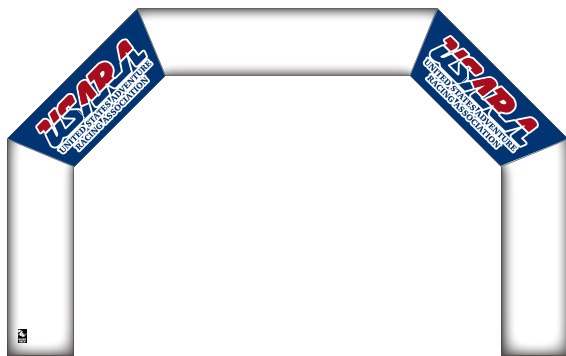


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# UPGRADING YOUR **FRONT** **TRIANGLE**

---

After adding several great storage solutions to our travel trailer, we took a look at the front triangle and decided it was time for a serious upgrade. First, we completely removed everything and repainted the front triangle frame. Next, we installed Torklift International's awesome PowerArmor Solar Single lockable battery box, which will ensure our battery is always charged and ready for the next adventure. We upgraded the LP system with a Flame King Dual RV Propane Tank Rack and a Flame King Auto Regulator. Both LP pigtails and the trunk line were replaced with stylish and sturdy MB Sturgis stainless steel overbraided hoses. We replaced our broken jack with a heavy-duty Lippert Components Power Tongue Jack that will provide years of reliable service. Finally, we replaced the factory junction box with a waterproof Kraloy junction box, which will guarantee that our fuses and connections are protected. Our front triangle now looks and functions better than most brand-new trailers.

**Before**



**After**



## Torklift International PowerArmor Solar Single

The Torklift International PowerArmor Solar Single is a lockable battery box that has an extra surprise up it's sleeve. The PowerArmor comes equipped with a 10-watt Zamp solar panel bolted to the lid and a pre-installed 8 amp regulator to prevent the overcharging of your battery. You can actually extend the life of your batteries up to 400% and prevent premature battery replacement by using the solar energy trickle charge to keep your battery in the optimum condition year-round. The Zamp solar panel will even work without direct sunlight absorbing reflective light to continually generate a charge. Made from 100% heavy gauge diamond plate aluminum with a black high impact powder coat frame, the Torklift International PowerArmor Solar Single is a beautiful and functional accessory. The battery box bolts directly to your RV, boat, or trailer tongue and has an access port that allows electrical wires to pass through the side wall of the box for easy connection. The US made PowerArmor battery box has a ventilated design for safety, comes with an acid neutralizing battery mat and features a keyed lockable sliding top that keeps your battery secure. The Torklift International PowerArmor Solar Single is available in multiple box sizes and is backed by a lifetime warranty. Get the Torklift International PowerArmor Solar Single and know your batteries are safe, charged and ready for your next adventure. [www.torklift.com](http://www.torklift.com)



## MB Sturgis RV Type 1 Pigtail with Stainless Steel Overbraid

The MB Sturgis RV Type 1 Pigtail with Stainless Steel Overbraid is a heavy-duty upgrade that does not break the bank. The pigtails have a dark green RV Type 1 tank connection and they connect dual LP cylinders to the two- stage regulator. The braided cables provide a higher rate of flow (450,000 BTU's P/H) resulting in a decreased potential for the system to go into bypass mode, therefore shutting down the gas supply to the system. The pigtail also features a back check to completely stop any potential back flow leakage and have a heat sensitive thermal shut-off device to shut off the gas in extreme heat situations. The 1/4 inch ID stainless steel overbraided thermoplastic hose assembly provides added protection to the hose and flat out looks awesome. The pigtails come in a standard 12" length but can be custom made to any length. So, pick up a pair of MB Sturgis RV Type 1 Pigtail with Stainless Steel Overbraid and upgrade both the function and the look of your trailer. [www.mbsturgis.com](http://www.mbsturgis.com)



## MB Sturgis 3/8 inch Trunk Hose with Stainless Steel Overbraid

The MB Sturgis 3/8 inch trunk hose with stainless steel overbraid is the perfect match for the MB Sturgis pigtails. The trunk hose is used to connect the regulator to the RV's permanent gas piping. The 3/8 inch ID thermoplastic hose assembly has a stainless steel overbraid for added protection and great looks. Featuring a maximum pressure rating of 350 PSI and a temperature range of -40°F to 140°F, the MB Sturgis hose can handle just about any conditions you can throw its way. MG Sturgis can custom make the trunk hose to any length. For a great looking and superior functioning upgrade look no further than the MB Sturgis 3/8 inch trunk hose with stainless steel overbraid. [www.mbsturgis.com](http://www.mbsturgis.com)







### Lippert Components Power Tongue Jack

The Lippert Components Power Tongue Jack makes setting up your trailer as easy as pushing a button. The Lippert Components Jack features quiet and efficient helical-cut gears, an easy to use up and down rocker button, 4 bright LED work lights, a 5.4 inch adjustable/removable footpad and a manual override crank handle. The Power tongue Jack features 18 inches of lift and 3500 pounds of lifting capacity making it easy to install stabilizer bars before you hit the road. The jack includes all necessary mounting hardware, pins, and the manual override crank. So, stop sweating before you have even started camping and get a Lippert Components Power Tongue Jack to make your trailer set up and break down a snap. [www.lci1.com](http://www.lci1.com)



### Flame King Dual RV Propane Tank Rack

The Flame King Dual RV Propane Tank Rack is a simple but sturdy replacement rack that is a significant upgrade to your current rack. The Flame King rack comes equipped with a 9" x 24" powder coated steel tank base, threaded rod, tee bracket, and wing nut. Available for 20, 30 and 40 pound tanks, the rack can be mounted by welding to your trailer tongue or installed with self-tapping screws. The heavy-duty Flame King Dual RV Propane Tank Rack is a great upgrade and will securely hold your two 20-pound propane tanks. <https://flameking.com>



### Flame King Auto Regulator with Cover and Mounting Bracket

The Flame King Auto Regulator with cover and mounting bracket is the perfect upgrade to ensure you have reliable propane flow in any condition. The regulator allows for the removal of an empty tank for refill without interrupting propane supply from the second tank. Rated for 190,000 BTU, the double staged regulator maintains constant gas pressure under changing demands and conditions. The Flame King Auto Regulator automatically switches from primary to reserve tank when the primary tank is empty and comes with a cover to protect the regulator vents and a mounting bracket. The Flame King Auto Regulator is a great upgrade for a mission critical component of your travel trailer. <https://flameking.com>



### Junction Box

The wire junction box on our travel trailer definitely left something to be desired - I am pretty sure an empty Kleenex box would have been as sturdy as what we started out with. We replaced the junction box with a plastic Kraloy 664 junction box which is water proof and should last for the life of the trailer. The replacement box will protect critical fuses and wire connections from the elements and water damage ensuring they will work like they should when you need them the most. **AW**





# Grinder Nationals

October 10, 2020 | Lawrence, Kansas

See what you are made of as you race across a challenging and scenic course as part of the USECF Gravel Grinder National Championship.

USECF Gravel Grinder National Championship jerseys will be awarded to winners in each category.

UNMISTAKABLY  
LAWRENCE





# GET THE ...|||MAXIMUM|||... OUT OF LIFE

by Troy Farrar

Maximum performance and maximum adventure require products that can take you to your max and help you recover after maximum effort. Whether you're an elite athlete, a weekend warrior, an avid hiker, paddler, biker, climber or someone who just likes to get out there and enjoy the outdoors, we all could use a little help. We identified a dozen products that will help you perform at your peak, recover quickly or provide great support for whatever it is you like to do in the great outdoors. These are products that should always be in your gearbox, ready to support you during your next training session, competition or big adventure. So, load up your gearbox and get the maximum out of life!



## Tiger Balm

Tiger Balm's belief is that that no one should be constrained from leading a full and active life because of aches, pains and everyday discomforts. Tiger Balm backs this belief with a line of great products that will get your muscles warm and ready before activities and help relieve joint & muscle pain while soothing stiff and sore muscles after your activities. Tiger Balm's line of ointments, rubs, liniments, sprays, gels and patches are all designed to provide soothing penetrating heat to muscles both before and after activity. Make Tiger Balm a part of your regular routine to decrease your risk of injury and increase your speed of recovery enhancing your active lifestyle. [www.tigerbalm.com/us](http://www.tigerbalm.com/us)



## MOTOREX

MOTOREX has set the standard by creating a complete line of high-quality bicycle lubricants and bicycle cleaning and care products. They have created this line of high-tech products by collaborating with leading bicycle and component manufacturers, racing teams and specialized dealers around the world. The MOTOREX line is designed to excel in a wide range of conditions and temperatures and features wet and dry chain lubricants, degreasers, cleaners and polishes, brake fluids, fork oils and bike greases. Prepare your ride in advance and know that MOTOREX will protect your components in any conditions and help get you to the finish line or your destination safely. <https://eurolinesusa.com>




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### Camp - Zero

Camp - Zero's philosophy is simple, offer ruggedly cool outdoor products that are affordable and most importantly designed to withstand the rigors of the outdoors. Best known for their virtually indestructible roto molded commercial grade hard coolers, Camp - Zero also has a full line of soft coolers, back pack coolers, beverage coolers, camp stoves and tote bags. Camp - Zero coolers come in a variety of sizes and colors to fit every occasion and all are backed by a limited 5-year warranty. The Camp-Zero camp stoves are available in a single, double or triple burner configuration and all are equipped with 16,000 BTU cast aluminum burners. The steel stoves feature oversized 38mm legs with swivel articulating height adjusting feet, fully adjustable heat control knobs, a push button piezo lighter and a three-foot hose with regulator. Camp-Zero designs products for everyday life that are built to perform under the most extreme conditions. Grab a Camp - Zero cooler and stove and know your products will withstand whatever hardships your next adventure throws their way. <https://camp-zero.com>

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### Akaso Action Cameras

Akaso features a line of high-quality action cameras packed full of great features that will not break the bank. Some of the features available are Ultra HD 4K quality and built-in advanced electronic image stabilization (EIS) which uses a 6-axis gyroscope to provide smooth videos even on rough terrain. Cameras also feature 8x slow motion, wide angle lenses, a 2-inch responsive touch screen with IPS display, remote control and blue tooth compatibility with your phone. You can even take your adventures up to 130 feet underwater with the included waterproof case and built in filter. Akaso cameras will support an external microphone and feature time lapse photo and video, burst photo, distortion calibration, screen saver and auto power off. The cameras come with a ton of mounting options for your bike, helmet, wrist or just about anywhere else you would want to mount the camera. Build a library of memories with your Akaso action camera by recording professional video and photographs of all your adventures. [www.akasotech.com](http://www.akasotech.com)

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### Balega

Balega running socks deliver unmatched excellence in their fit, feel and performance. Their sock design starts with a seamless, contoured fit preventing blisters by ensuring the socks do not move on your foot. A deep heel pocket provides full cushioned protection and ventilation panels aid in cooling and moisture wicking. Balega uses a super soft moisture wicking Drynamix blended with natural mohair wool which keeps your feet cool in the summer and warm in the winter while creating the ultimate anti-blister sock barrier between your skin and shoe. The yarn is infused with silver chloride providing optimum anti-microbial properties keeping your feet odor-free and healthy. The ultra-light socks also feature a V-Tech arch support system which provides a structured cushion fit that perfectly matches the contours of your foot without constricting it. Available in several models, slip on a pair of Balega socks and start treating your feet the way they deserve to be treated. <https://balega-socks.implus.com>





## PowerStep

PowerStep insoles are the #1 Podiatrist recommended brand of orthotic insoles. The PowerStep insoles feature an anti-microbial top fabric that reduces friction and controls heat and perspiration. Dual layer cushioning foam provides full foot comfort for tough runs or long days on your feet. A firm but flexible polypropylene arch support and heel cradle provide contoured support and improved motion control. The defining feature of any PowerStep orthotic is the unique arch shape which provides reliable support paired with superior comfort. The PowerStep arch was designed by a podiatrist to create an insole that actually decreases your foot pain while improving foot function. By combining balance, support, and cushioning, Powerstep has created the ultimate line of insoles. Step into a PowerStep insole and give your feet the protection and support they deserve. [www.powersteps.com](http://www.powersteps.com)



## Body Glide

Body Glide products prevent rubbing that causes skin irritation, rashes, chafing and blisters. The balms are non-oily, invisible and blend into your skin when applied. Body Glide accomplishes this by using invisible, child safe plant waxes which are never greasy and will not stain your clothing. Their line of balms stand up to sweat, humidity and water, while allowing your skin to breathe while your perspiration escapes. The long-lasting formula even works underwater and is great for all water sports. Available in a variety of products, Body Glide is something that should always be in your gear box. Stop trouble before it starts and reach for Body Glide, the dry, reliable, technically advanced skincare protection balm that arrest rubbing and friction before they cause rashes, chafing, blisters and raw skin. [www.bodyglide.com](http://www.bodyglide.com)



## Orange Seal

Orange Seal Tire Sealant is a must have upgrade for all of your bicycles. Orange Seal is compatible with both tubeless and tubed bike tire systems and is eco-friendly. The sealant is proven to seal large punctures up to 1/4" and perform under varying temperatures and altitudes. Orange Seal offers a comprehensive Tubeless Conversion Kit that includes everything that you need to convert your wheels to a tubeless system. Orange Seal has a Road Kit that includes two 48mm 700-18x23c road tubes with sealant which is a great solution for flat prevention on your road bike. They also offer valve stems and rim tape which comes in 18mm and 24mm widths fitting most bike rims. You can spend your time wrenching or spend your time riding – say goodbye to those troublesome flats and tube changes with Orange Seal and keep riding! <https://orangeseal.com>

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.....GRILL

UNFOLD.....



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## OS1st

OS1st Performance Compression Sleeves provides medical grade athletic support to prevent pain from muscle stiffness and soreness. OS1st compression sleeves are designed to reduce the time it takes for muscles to repair themselves by improving venous return and oxygenation to working muscles. OS1st delivers targeted, true graduated and anatomically correct medical grade compression through their patented Compression Zone Technology. The Compression Zone Technology is built into every sleeve, which means there are multiple sections, or zones, that feature a different level of compression. The zones range from light to firm (1015 mmHg to 2030 mmHg) and each zone has its own specifically designed function. The changing levels of compression throughout each device are what creates the orthopedic effect of a bracing device. The Compression zones prevent injuries and provide relief to previous injuries, all designed to keep you in the game longer. The sleek durable sleeves feature moisture wicking and are designed to provide the perfect fit. Improve your performance and enjoy quicker recovery with an OS1st Compression Sleeve. <https://os1st.com>

## The Right Stuff

The Right Stuff was developed by NASA to fight dehydration in astronauts and can provide you with that same protection while increasing your endurance during training and competition. The formula combats cramps, muscle fatigue, headaches and light-headedness caused by heavy sweating, dehydration and electrolyte loss. Scientific studies suggest that as little as a 2% decline in hydration can result in up to a 10% reduction in athletic performance. Just squeeze a packet of the Right Stuff liquid into 16 ounces of water or other training drink and consume while you are training or racing. The Right Stuff comes in 8 flavors and contains a high-concentration blend of electrolytes which are rapidly absorbed into your bloodstream. The Right Stuff does not contain sugar which will keep your muscles happy and functioning correctly during exercise. Take the Right Stuff for your electrolytes and separately choose the amount, timing and type of carbohydrates you use during exercise. The Right Stuff will prepare and replenish your electrolytes in the toughest environments. [www.therightstuff-usa.com](http://www.therightstuff-usa.com)



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With built-in arch support for extra cushion and support to counter foot and leg fatigue.

**Powerstep®**

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[www.powerstep.com](http://www.powerstep.com)







## Lupine Lights

Lupine has offered a collection of the brightest LED lights in the world for over 25 years. High-quality German-manufacturing, paired with innovation, guarantees long-lasting products that stand the test of time. All Lupine lamps are precision-milled from a single piece of high-quality aluminum, ensuring the lamp housing is lightweight, waterproof, durable and able to withstand extreme heat to sub-zero temperatures, rain and rugged terrain. Lupine utilizes Optimized Color Temperature for the human eye – around 6500K. This clean, daylight-like white, optimizes night vision which is crucial when spotting obstacles such as wet surfaces ahead and is ideal for photography and videography. Featuring Bluetooth integration which provides cable-free control of your lights with the simple push of a button mounted on your handlebar or wrist and intelligent SmartCore electronics which pull power evenly from the Li-ion battery cells, minimizing burnout and maximizing the longevity of your battery. Lupine's wide variety of accessories allow you to transform a single lamp into a helmet light, handlebar-mounted bike light, or headlamp for your next night time adventure. Choose Lupine for the brightest, highest quality, most versatile and durable LED lights available. [www.lupinenorthamerica.com](http://www.lupinenorthamerica.com)

## LifeStraw

LifeStraw gives you the comfort of knowing your water is clean and safe to drink. LifeStraw's secret is the membrane microfilters which are made of hollow fiber membrane technology – a similar technology used in kidney dialysis. These membranes are made of small straws that contain microscopic pores of 0.2 microns in diameter. Dirty water enters one side of the straws and clean water passes through the pores while bacteria, parasites, microplastics, dirt and other forms of turbidity are blocked and unable to pass through because they are too large. The result is safe drinking water flows into a clean chamber for drinking while contaminants are blocked. LifeStraw's membrane microfilters are capable of removing 99.999999% of bacteria including E. coli, 99.999% of parasites like Giardia and Cryptosporidium and 99.999% of microplastics. LifeStraw combines the membrane filters with Activated Carbon Filters to improve your water's taste by removing chemicals such as chlorine and unpleasant odors. Featuring a full line of water bottles, universal caps, pitchers, straws and higher volume solutions, LifeStraw has the perfect water filter for any situation. So, grab a LifeStraw and enjoy clean, safe water on your next adventure. [www.lifestraw.com](http://www.lifestraw.com) **AW**

# Outdoor Living Made Easier...





# KRYPTTEK GOES THE EXTRA MILE

by Troy Farrar

When the COVID -19 pandemic hit, Kryptek took a hard look at how the population was being affected and asked the question, “How can we help by providing personal protective equipment?” The company quickly converted their overseas factories to produce N95 masks for health care and government workers to help fill the much needed void. The second question Kryptek asked was to their U.S. factories, “Can you produce a face mask that is better than the homemade masks people are using?” The U.S. factories sent a couple samples of a washable and reusable mask with a 3-stage replaceable filter, one for children & women and a second for men, and Kryptek placed the purchase order 5 days later. The company donated a percentage of the first run (which sold out in only 18 hours) to a NYC hospital and multiple SWAT teams, as they wanted to support the first responders who are on the front lines of the pandemic. Kryptek continues to donate a portion of the proceeds from the sale of each mask toward supporting first-responders with masks. Seeing the response to the first production run, Kryptek’s U.S. factories are now 90% converted to mask production.



IT'S HARD TO SEE  
THE FINISH LINE WITHOUT  
CLEAR VISION.



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EASILY ADJUSTABLE, COMFORTABLE FIT  
CHANNELS SWEAT AWAY FROM EYES AND GLASSES  
SLIM DESIGN FITS SMARTLY UNDER HELMETS  
MADE IN TEXAS

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Kryptek had the ability and desire to improve their fellow Americans' safety by helping them following our commander in chief and the CDC's guidelines. They wanted to ensure that they produced a high-quality mask that would provide the protection our population was seeking, while keeping the cost affordable, so everyone who wanted a mask could afford to purchase one. Finally, Kryptek wanted to keep Americans safe and help as many people as possible to continue working safely at their jobs.

Thank you Kryptek, for going the extra mile and showing your true colors during this unusual time in our nation. **AW**



# ADVENTURE DOES NOT STOP

WHY SHOULD YOU?

The 1<sup>st</sup>  
run longer,  
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**NO EXCUSES,**  
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Base Layer  
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OS1st Base Layer Bracing can be worn before, after or during **any** activity. Most braces don't work that way. We took notice and took the challenge and created an entire line of bracing sleeves designed to be worn while active as well as for recovery. Thin enough to wear under any apparel or equipment, this is medical-grade compression bracing that's lightweight, breathable and moisture-wicking with release zones in the right places... its a **1st**, and it's what we do.

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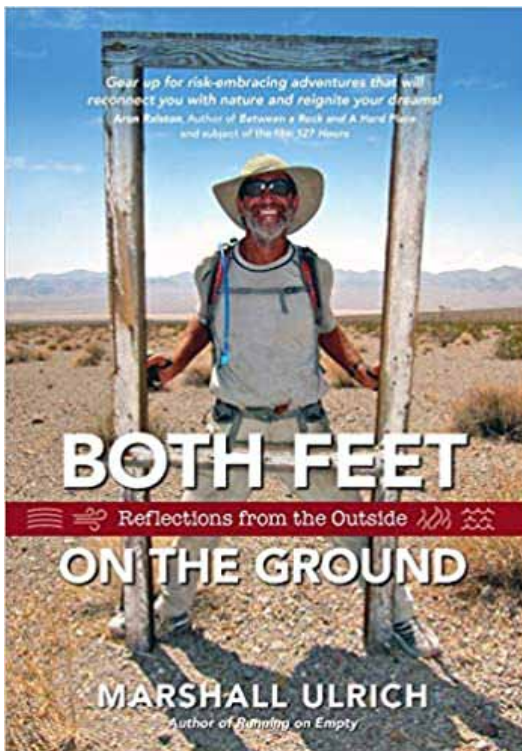


# Product Reviews

SUMMER 2020

## Akaso V50 Pro SE

The Akaso V50 Pro SE is a high-quality action camera packed full of great features that will not break the bank. The V50 Pro SE is able to record crisp and clear fast-moving action utilizing 4K at 60 frames per second and 4K/30fps resolution. The camera has built-in advanced electronic image stabilization (EIS) which uses a 6-axis gyroscope to provide smooth videos even on rough terrain. The ultra-high frame rate 720P/240FPS video lets you to utilize up to 8x slow motion and the 170° wide angle lens allows you to capture your surroundings. Navigate the camera using the 2-inch responsive touch screen with IPS display or take your adventure up to 130 feet underwater with the included waterproof case and built in filter. The Akaso will support an external microphone and features time lapse photo and video, burst photo, distortion calibration, screen saver and auto power off. The camera comes with a ton of mounting options for your bike, helmet, wrist or just about anywhere else you would want to mount the camera. Also included are 3 batteries with a charger, lens cloth, a waterproof case, a remote and a USB cable. Grab an Akaso V50 Pro SE and start shooting professional video and photographs of all your adventures. [www.akasotech.com](http://www.akasotech.com)



## Both Feet on the Ground By Marshall Ulrich

“Get out and stay out—as often and for as long as you can,” champions Marshall Ulrich in his latest release, *Both Feet on the Ground: Reflections from the Outside*. Ulrich, an ultrarunner who has also scaled the Seven Summits and competed in multi-day adventure races, shares stories of his expeditions in such far-flung places as Borneo, Tibet, and South Africa, as well as his lifelong commitment to farming his land in Colorado. Ulrich has climbed Mount Everest, run through the searing heat of the Gobi Desert, and ridden the huge waves off Morocco. But there’s no need to be an extreme athlete to reap the benefits of forming physical connections with the natural world. Ulrich urges readers to simply unplug, plant their feet firmly in the earth, fill their lungs with clean air, and dream of bold and personally compelling outdoor adventures. “Your adventures in natural places—even if, for now, it’s just sitting outside or walking around your neighborhood—can put you back in touch with who you are; how resilient, resourceful and hardy you can be,” Ulrich says. [www.marshallulrich.com](http://www.marshallulrich.com)



# AKASO

Go Beyond

## BRING YOUR OUTDOOR ADVENTURES TO LIFE WITH AN **AKASO ACTION CAMERA**

Get premium features for an affordable price – why pay double?

**A**ction cameras have come a long way since they first appeared on the market. Designed for the demands of the great outdoors, they have been keenly adopted by a wide range of

outward-bound enthusiasts who like nothing more than seeking a rush of adrenaline in their free time, whether they get it from mountain biking, climbing, cycling, snowboarding, surfing...the only limit is their

imagination! So it's great to know that in a crowded marketplace where there is a seemingly bewildering amount of choice, one leading manufacturer is offering a premium product for an affordable price. And

here's the question: why pay double the price when you can get everything you need and more in an AKASO action camera?

**The AKASO difference**  
AKASO may be a relative newcomer to the action camera sector but in less than five years it has become one of the leading action brands on the worldwide market, with annual sales of more than 500,000 units. By buying an AKASO action camera you're also joining an established community of

outdoor enthusiasts and content creators, and thanks to a partnership between AKASO and Leave No Trace you're doing your bit for the environment, too.

### **Special edition marks AKASO's Leave No Trace partnership**

The Leave No Trace Center for Outdoor Ethics protects the outdoors by teaching and inspiring people to enjoy it responsibly. Founded in 1994, Leave No Trace strives to minimise the impact that humans make on the natural world, and is active in over 90 countries around the globe. AKASO has partnered with Leave No Trace to launch a special edition of its V50 Pro action camera – a portion of every sale of the V50 Pro SE will go directly to support the Leave No Trace Access Fund. It's a great cause to support, and will help preserve our environment for future generations. ●



World-famous rock climber Tommy Caldwell is an AKASO action camera ambassador

**“A portion of every V50 Pro SE sale will go to support the Leave No Trace Access Fund”**



Find out more about the AKASO V50 Pro SE action camera at: [www.akasotech.com](http://www.akasotech.com)

**Connect with AKASO at:**

- [www.facebook.com/akaso.official](https://www.facebook.com/akaso.official)
- [www.instagram.com/akaso\\_official](https://www.instagram.com/akaso_official)
- [www.youtube.com/akaso\\_official](https://www.youtube.com/akaso_official)
- [www.twitter.com/akaso\\_official](https://www.twitter.com/akaso_official)





## Pig & Hen Vicious Vik Bracelet

In the early 1600's, the Dutch sailors were exploring unknown parts of the world where they discovered new lands and different ways of life, but also ran into some big obstacles along the way. To protect themselves against bad luck, the sailors had a tattoo of a pig and a hen on their feet

believing the tattoos gave the sailors the ability to survive if they had to abandon ship. The sailors believed the tide would bring them home just like it often did for the Pig and Hen who were kept in wooden crates that floated in the ship. Pig & Hen continues the Dutch legacy by handmaking all of their bracelets in Amsterdam, using authentic ship rope. The bracelets are meant to survive a lifetime, are stronger than steel and as they like to say, will age like your wrinkled face. We tested the Vicious Vik which is a stunning wearable piece of art. The handcrafted bracelet is available in 7 different designs and 7 different sizes making it easy to find the perfect one for you. Pig & Hen has created an amazing collection of handcrafted bracelets that will probably never leave your wrist once you slip one on. <https://us.pighen.com>



## Chaco Women's Z/Cloud X2

The Chaco Women's Z/Cloud X2 is a classic sandal that can handle all the rigors of your next adventure. Chaco uses an adjustable dual strap webbing system combined with a heel riser and toe loop to keep the sandals on your feet in any conditions. The women's specific LUVSEAT is a podiatrist-certified ultra-soft PU footbed that provides comfort and support during those long days on your feet. The non-marking ChacoGrip outsole has a new tread design that provides great traction in wet conditions. The Chaco Women's Z/Cloud X2 are available in 8 colors and are the perfect choice for a night on the town to an adventure in the outback and will quickly become one of your go-to shoes. [www.chacos.com](http://www.chacos.com)



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## Ballsy Ball Guard Liquid Powder

Ballsy Ball Guard Liquid Powder is a Talc-free, paraben-free and aluminum-free solution to a common problem. Protect yourself from sweat, odor and chaffing with the US made and TSA travel approved soothing cream. Simply squirt a quarter size amount into your palm, rub hands together, apply where ever you want to stay fresh and reduce friction, wait 30 seconds and get dressed. Say goodbye to messy powders as Ball Guard Liquid Powder goes on as a cool soothing cream and quickly dries as a mess free powder. Apply some Ballsy Ball Guard Liquid Powder and say goodbye to the sweaty, stinky chaffing that plaques most of the planet. <https://ballwash.com>

## Eton FRX 3+

The Eton FRX 3+ will keep you informed before, during and after critical weather events or any other emergencies. The radio has a USB rechargeable lithium battery, hand crank and solar charging capabilities which provides plenty of options for just about any situation. The FRX 3+ receives AM/FM radio and all 7 NOAA/Environment Canada weather bands while providing alert function broadcasts in emergency weather alerts. Weighing in at less than a pound, the radio also has an alarm clock, a LED flashlight & flashing beacon, a glow in the dark locator, USB device charging and an external headphone jack. Give yourself the confidence to know that you will be informed by a radio that will work when nothing else works with the Eton FRX 3+. <https://etoncorp.com>



## Chirp Wheel

The Chirp Wheel is a simple to use roller that takes a very different approach. Most foam rollers steamroll your entire back because they're too wide to effectively target the deep muscle tissue around your spine. Chirp's spinal canal (groove in the center of the wheel), stretches the muscles around the spine both length and widthwise for the deepest possible stretch. The 5-inch-wide injection molded wheels will support 500 pounds and come in 6-inch deep tissue, 10-inch medium stretch and 12-inch gentle stretch sizes. The Chirp Wheels come with an instruction sheet that will lead you through deep tissue massage after only 5 minutes of rolling out. Add an optional Chirp Wheel Case to store your wheels and make it easy to take them along on trips. Stop hurting and start Chirping. <https://gochirp.com> **AW**





Blister  
Free  
Running



**MOHAIR**

Nature's Temperature Regulator  
blended with DRYnamiXX®  
Moisture Management yarn



**balega**®

Blister Resist



# 2020 USARA Adventure Race National Championship

Cable, Wisconsin

September 11, 2020



PRESENTED BY



Kulshan Quest	06/06/20	Bellingham, WA
Courtland Adventure	06/20/20	Courtland, NE
Maine Summer AR	06/20/20	Portland, ME
Stubborn Mule 12 Hour	06/27/20	Washburn, WI
Stubborn Mule 30 Hour	06/27/20	Washburn, WI
Earthday	07/18/20	Tallahassee, FL
The Gold Rush	07/18/20	Sonora, CA
Surley Pika	07/19/20	Pinedale, WY
The Nomad	07/26/20	Colorado Springs, CO
The Longest Day	08/01/20	Warren, PA
The Bitter Pill	08/08/20	Lyndonville, VT
Never Summer	08/15/20	Grand County, CO
The Berryman	08/22/20	Rolla, MO
TCX Palos	08/29/20	Willow Springs, IL
Break Up AR	Sep 2020	Milford Lake, KS
Howl at the Moon	Sep 2020	Hobe Sound, FL
Physically Strong Adventure Race	Sep 2020	Quincy, IL
Tahoe Big Blue	09/20/20	Lake Tahoe, CA
CIA-Central Indiana Adventure	10/03/20	West Lafayette, IN
Coosa River Challenge	10/03/20	Wetumpka, AL
Off Road Rage	10/24/20	Warsaw, MO
MAFF	10/31/20	Delafield, WI
Raid the Rock	Nov 2020	Little Rock, AR

## REGIONAL SPONSORSHIP

The first place coed team from each regional qualifying race will receive a \$400.00 sponsorship, provided by the regional qualifying race, to be applied to the team's entry fee for the USARA Adventure Race National Championship™.

[www.USARANationals.com](http://www.USARANationals.com)



**One light  
for all your adventures.**



### **Blika RX 7 Smartcore**

With the Lupine's FrontClick quick-change system, your lighting will be more flexible than ever before. You can turn your headlamp into a helmet lamp, or swap your headlamp from one helmet to another in seconds, without tools.



**[lupinenorthamerica.com](http://lupinenorthamerica.com)**





## 6.5 Grendel



by: Troy Farrar

Building a super accurate, long range capable rifle for varmint hunting led us straight to the 6.5 Grendel. The 6.5 Grendel is a great performing caliber that was essentially made for varmint hunting. We chose the best components available, and when the smoke cleared we had a beautiful rifle that just happened to shoot sub MOA groups.



### *Christensen Arms Carbon Fiber Barrel*

Christensen Arms developed the first carbon fiber rifle barrel over 20 years ago and their continued innovation has led to some of the lightest and most accurate firearms in the world. The barrel lining is made from match grade 416R stainless steel and is measured to a tolerance of  $\pm .0002$ . Christensen Arms then uses a proprietary layering system that provides superior strength while producing a barrel that weighs less than a steel barrel of the same contour. All Christensen Arms Carbon Fiber barrels are button rifled and include a muzzle end thread protector and guarantee sub MOA accuracy. Christensen Arms has mastered the use of top tier aerospace materials and processes which results in light weight barrels with super accurate repeatable performance – what more could you ask for? [www.christensenarms.com](http://www.christensenarms.com)



### *Christensen Arms Carbon Fiber Composite Monte Carlo Stock*

The Christensen Arms Carbon Fiber Composite Monte Carlo Stock is made from a blend of carbon fiber and fiberglass resulting in a light weight, super durable stock. Made exclusively for Remington 700 actions, the Monte Carlo weighs in at less than 3 pounds and features a large cheek comb height, single sling studs, Invar alloy pillars and a Limbsaver recoil pad. The hand laid, light weight stock provides an ultra-stable base for your rifle due to its strength and rigidity enabling the accuracy you demand. Light enough to carry in the mountains for days, the Christensen Arms Carbon Fiber Composite Monte Carlo Stock will be the envy of your hunting buddies and provide you with the necessary tool to make consistently accurate long-range shots. [www.christensenarms.com](http://www.christensenarms.com)



### *APA 30mm Scope Rings*

The American Precision Arms 30mm Scope Rings are a precision set of optic rings that will provide the foundation for the accuracy you are seeking in a custom-made rifle. APA employees a rigorous quality control process that eliminates any ring that has .0005 of runout or cant, as the relationship from the bottom of the ring to the center bore is critical. This means that rings do not need to be matched sets as all rings will match up with any other ring of the same size, allowing optics to be mounted to a completely stress-free platform regardless of ring orientation. This gives you the ability to remove an optic from a rifle and expect it to return to zero every time it is reinstalled. The APA rings also have a feature that self-centers the rings even if your base is slightly out of spec. The American Precision Tru-Loc 30mm rings have a sturdy 4 bolt system that secures you optic inside the rings and a 2 bolt system that securely anchors the rings to your rifle. The APA rings are available in 6 different heights and are a tried and true component for any custom rifle build. [www.americanprecisionarms.com](http://www.americanprecisionarms.com)



### *Curtis Customs Axiom Action*

The Curtis Customs Axiom Action is a precision, handmade functional piece of art. The receiver is machined from a single piece of stainless steel and the 3-lug action has a standard Remington 700 footprint. Curtis features a diamond coated spiral fluted bolt which has a side release along with a rollerball tipped cocking piece to reduce drag and make the action as smooth as butter. The action is equipped with a double pinned recoil lug and a screwed and pinned on 20 MOA accessory rail which makes attaching optics a breeze. The action is available in right or left handed configurations with multiple bolt face options. Curtis makes a precise, sturdy and reliable action that is a great foundation to start a custom rifle build. [www.curtiscustom.com](http://www.curtiscustom.com)





### *Wyatt's Outdoor Custom Rifles Magazine Box*

Wyatt's Outdoor Custom Rifles is known for making excellent magazine boxes and are a great choice when building a custom rifle. A unique feature of the Wyatt's Outdoor Custom Rifles magazine box is that it extends the capacity for the overall length of the cartridge by approx. .110", which is a great feature for reloaders who are concerned with proper rifle seating depth. The Wyatt's magazine box comes with the spring, follower and screws and Wyatt's magazine boxes are made for a variety of actions. When choosing the best components for a custom rifle build, you cannot go wrong with a Wyatt's Outdoor Custom Rifles Magazine Box. [www.wyattsoutdoor.com](http://www.wyattsoutdoor.com)



### *Hawkins Precision Oberndorf Bottom Metal*

The Hawkins Precision Oberndorf Bottom Metal are precision made CNC machined works of art. Weighing in at a scant 2.5 ounces, the light weight bottom metal feature Hawkins Precision's patented cantilever spring release that ensures the floorplate will not accidentally open under any level of recoil. Available for Remington 700 short or long action the bottom metal comes with the action screws and follower. Perfect for that custom build, you will be 110% satisfied with the performance of the Hawkins Precision Oberndorf Bottom Metal. [www.hawkinsprecision.com](http://www.hawkinsprecision.com)



### *ELF 700SE Precision Rifle Trigger*

The Elftmann 700SE Precision Rifle Trigger is a simple to use adjustable drop-in trigger system for Remington 700 and 700 clone rifles. ELF starts with an easy to access, externally adjustable pull weight that can be set to pull anywhere between 2 ounces and 5 pounds. The trigger uses three aerospace grade bearings which provide a consistent and smooth pull leading up to a crisp break with no play. ELF also utilizes a 6 to 1 ratio roller bearing pivot arm that eliminates any variation in set pull weight regardless of the firing spring tension for consistent pull weight. The 100% drop safe, US made drop in trigger features an oversized ambi safety knob, adjustable black or red, flat or curved aluminum trigger shoe, and an optional internal bolt release, all backed by a lifetime guarantee. Trust the ELF 700SE for a super smooth and consistent adjustable trigger with a crisp break for your next custom build. [www.elftactical.com](http://www.elftactical.com)



### *Hornady 6.5 Grendel 123gr SST*

The Hornady 6.5 Grendel 123gr SST is the perfect ammunition for your next predator hunting trip. The ammunition utilizes Hornady's SST Super Shock Tip which feature an interlock ring with a polymer tip. The combination provides a fast-controlled expansion, supplying tremendous energy transfer upon impact and resulting in large wound channels. The boat tail bullets feature a secant ogive which creates an optimum blend of ballistic efficiency and bearing surface which is important for providing low drag, flat shooting rifles. Hornady hand inspects every round for consistent performance and the muzzle velocity of this round is 2590 fps. The Hornady 6.5 Grendel 123gr SST will give you hand loaded performance and provide the ethical results you demand on your next outing. [www.hornady.com](http://www.hornady.com) **AW**





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# Varmint Hunting

When preparing for your next varmint hunt, there are some great products that will help you have a successful outing. We reviewed a few of the top varmint hunting tools used by professional outfitters that always produce great results. These products have consistently proven to be effective at hiding your presence and drawing the predators into your area, helping produce a successful hunt.

## *Icotec Night Stalker*

The Icotec Night Stalker is a top of the line professional electronic predator caller that will bring the predators running to your stand. The Night Stalker has a unique feature that allows you to play 2 sounds at the same time and comes with two separate play and pause buttons which produce awesome results. The call has great sound quality and comes loaded with 240 sounds, including 50 from Tony Tebbe, and the ability to store 500 sounds. Icotec gives you the ability to recall 20 of your favorite calls and one coax sound and they provide unlimited free sound library downloads. The remote is large and easy to read in both the daytime or nighttime conditions and has a whopping 300 yard no line of sight range. Icotec's tripod mountable E-Caller comes with the remote, a remote sync cable and a USB cable for downloading sounds. The Icotec Night Stalker is an ultra-durable, easy to use programmable E-Caller that will help you stack up those predators. <https://icotec.com>



## *Icotec AD 450*

The Icotec AD 450 is a must have decoy add on for your Night Stalker E-Caller. The AD 450 securely attaches to the Night Stalker making it easy to transport to your next hunt. The decoy has a quiet motor that provides intermittent motion which stimulates a second sense (vision) to help draw predators into the decoy. The decoy movement also focuses the predator's sight on the decoy which helps prevent them from focusing on you. The Icotec decoy is controlled by your Night Stalker remote and features an adjustable speed dial, 2 quick-change toppers and even an LED light to aid in visibility for night hunts. The decoy runs on 4 AA batteries so it does not drain your E-Caller power and will increase your ability to bring in the predators. Get the Icotec AD 450 and enjoy the results from the heavy-duty professional decoy. <https://icotec.com>



### *Wildgame Innovations Zerotrace Pureion Field Generator*

The Wildgame Innovations Zerotrace Pureion Field Generator will help keep you hidden by neutralizing something that often ruins your hunt - your scent. Zero Trace does this by dispersing both positive and negative ions that attach to your odor molecules and then eliminates your scent by neutralize those molecules. The system is designed to be used in the field and has none of the harmful effects that ozone systems can have on your health, gear or the environment. The light weight, compact, rechargeable system provides continuous aircover for 6 hours and includes a second battery allowing for a total of 12 hours of coverage. Hang the field generator in your tree blind or stand with the included adjustable mount system and start enjoying the benefits. The system allows you to get closer to the action by removing scent from the equation. Get a Wildgame Innovations Zerotrace Pureion Field Generator and neutralize your scent for your next predator, deer or hog hunt. [www.wildgameinnovations.com](http://www.wildgameinnovations.com)



### *Mojo Triple Threat*

The Mojo Triple Threat E-caller has 3 distinct features that will help you bring the predators running. Mojo builds the foundation with a cone speaker which delivers a higher quality of sound than most horn speakers and delivers 120db of sound. MOJO's Terry Denmon commented, "its quality sound that makes the difference in our E-caller." The Mojo comes with a dual sound storage system that features 80 sounds preloaded in the onboard memory and an SD card that can be custom designed for your hunt. The second feature is the award winning, magnetically connected, remote controlled critter decoy. The decoy top securely stores in the handle when not in use and deploys in a few seconds. The third piece is the built-in tripod which helps get the E-Caller off the ground allowing the sound waves carry and the decoy to be seen in high cover. The Triple Threat is made from durable PV and includes a tripod peg, a recharging port with smart AC charger for rechargeable battery use and an external speaker port. The included remote will work up to 300 yards and features a signal meter, flush glow in the dark buttons, a red back light to help preserve night vision, and 4 hot buttons for storing your favorite calls. The Mojo Triple Threat has the whole package and will help you bring in the predators on your next hunt. [www.mojooutdoors.com](http://www.mojooutdoors.com)





### *Kryptek Ares Jacket*

The Kryptek Ares Jacket is a must have piece for any cold weather hunting. The 800-fill goose down polyester jacket will extend your time in cold weather hunts by keeping you warm for hours. The light weight, water resistant jacket packs heavyweight performance and packs down into a small footprint. The Ares has an attached hood with peripheral cord adjustment to help you extend your field of vision so you don't miss any game and dual zippered hand and chest pockets. There are huge zippered interior pockets along with velcro cuff closures and an elastic waist cinch. The Kryptek Ares Jacket is a crucial piece for cold weather hunting and will keep you comfortable on those cold and windy days. <https://kryptek.com>



### *Kryptek Hyperion LS*

The Kryptek Hyperion long sleeved shirt is a versatile and comfortable top. The 100% Polyester shirt is made from a comfortable stretch fabric and is perfect as a base layer or as a stand alone top in warmer conditions. The light weight top dries quickly and utilizes antimicrobial technology that helps reduce odor. Slip into a Kryptek Hyperion long sleeved shirt and enjoy the benefits of a versatile and comfortable shirt that was made for your next hunt. <https://kryptek.com>



### *Kryptek Dalibor Pant*

The Kryptek Dalibor is a versatile pant that is great for hiking into your stand and the sometimes long wait in the stand. Field tested for 2 years in Alaska, the Dalibor is the perfect pant for cool to cold weather conditions. The water-resistant polyester fabric is durable and stretchable making them a great pant for hiking or scrambling over uneven terrain. The Dalibor has bonded laminate reinforced knees with knee pad pockets that protect you when kneeling or when on rough terrain. Featuring 6 zippered pockets and 2 waist pockets, there are plenty of places to safely stash your gear and the cuffs have built in "grab tabs" that will keep your pants legs down. The Kryptek Dalibor pant will quickly become your go to pant for just about any hunting scenario. <https://kryptek.com> **AW**





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# Shooting Reviews

SUMMER 2020

## EndoSnake

The Endosnake is a must have borescope for all serious shooters. The 3.9 mm diameter Endosnake is small enough for .22/5.56 caliber bores and comes with a standard 3-foot cord. The 6 LED lights have a brightness adjustment and the 720p resolution gives you a crisp and clear view of what is happening in your bore. The Endosnake attaches to your phone or device giving you the option to take pictures or record video of what you are viewing. Endosnake has a wireless WIFI box for iPhones or iPads and comes with a carrying case, hook, mirror and magnet which can be very useful tools for retrieving objects in tight spaces. The Endosnake is IP67 rated waterproof and has available upgrades in 6 and 15 foot lengths which widens the spectrum for use to plumbing, automotive or anything else that requires you to see in small spaces. Endosnake also has 5.5mm, 7mm and 8mm snakes available for purchase. Grab an Endosnake and get a clear picture of what is going on in your bore. <https://endosnake.com>



## Coast G450

The Coast G450 flashlight is a great go to tool for your next hunting trip or everyday chores. The G450 allows you to cycle between 4 hours of 1400 lumen high, 10 hours of 650 lumen medium and 33 hours of 185 lumen low light with the click of a button. The Pure Beam optic gives you the ability to twist focus from flood mode which provides a wide circle of equally bright illumination to spot mode which reaches far downrange while providing a halo for illuminating areas around the spot. The LED Coast G450 uses 6 AA batteries, is 8.43 inches long, weighs 11.64 ounces, is IPX4 water resistant, impact resistant and backed by Coast's lifetime warranty. So, grab yourself a Coast G450 and know that you have a tool that will not let you down no matter how tough the conditions get. <https://coastportland.com>





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# Shooting Reviews

SUMMER 2020

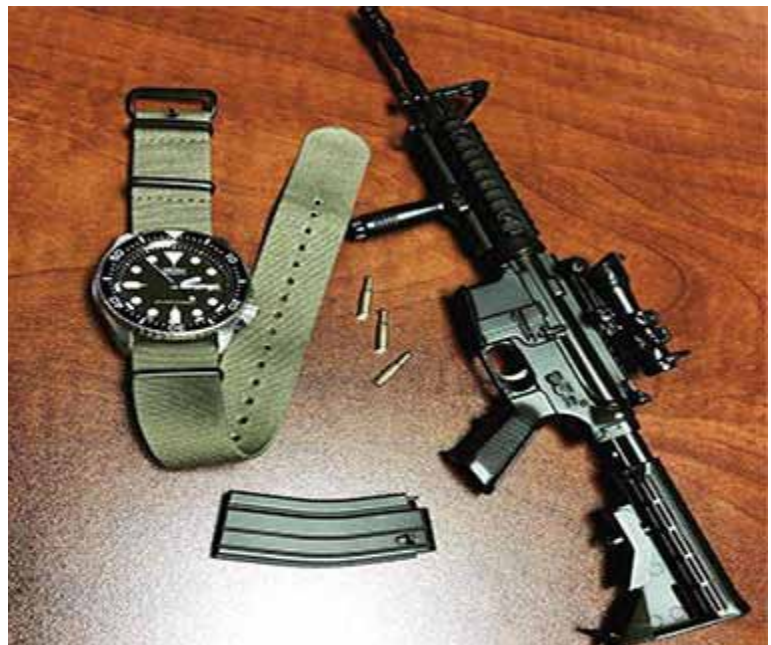
## Mission First Tactical Minimalist Holster

The Mission First Tactical Minimalist Holster has the perfect name as the holster is so small and light it's hard to believe. The ambidextrous holster has a 2-20 degree adjustable cant and includes a tuckable 1 -1 ½" Belt Clip so it can be worn inside the waistband. The MFT holster features a removable claw which pushes the heel of the pistol into your side to minimize printing and utilizes an audible click when engaged. The handmade Mission First Tactical Minimalist Holster is made in the USA, easy to use, so light you will not notice that you have it on and backed by a lifetime warranty. [www.missionfirsttactical.com](http://www.missionfirsttactical.com)



## Goat Guns AR-15

Goat Guns has an awesome line up of 1:3 scale, die cast model firearms. The miniature AR-15, knicknamed "Charky" that we tested is a M4A1 variant that is about as close to a working model as possible. The die cast metal model features 3 adjustable stock positions, a functioning charging handle, an adjustable sight on Picatinny rails, an opening and closing ejection port, a squeezable trigger, movable selector switch and a magazine with functioning magazine release. The Goat gun comes with a suppressor, 3 dummy rounds that can be loaded into the magazine and a stand for displaying the model. You can mix and match parts from other models to create a unique model of your own. Goat Guns are perfect for teaching youngsters how firearms work or for displaying a model of your favorite firearm. <https://goatguns.com> **AW**



# TARGETS

## AR-MOR Targets Springer Target

The AR-MOR Targets Springer Target is a heavy-duty well-made popper target that will give you years of practice on your range. This 3/8 inch AR500 steel target is fully retractable and can handle any handgun from .22 to a 45 ACP along with rifles up to a .243. Available with a round, prairie dog or squirrel target, the AR-MOR Targets Springer Target is built to take the punishment you give out over years of shooting. [www.ar-mortargets.com](http://www.ar-mortargets.com)



## AR-MOR Targets T-Post Hanger

The AR-MOR Targets T-Post Hanger is a unique hanger that will have you shooting in a couple of minutes. Simply bolt the hanger to a T-Post, hang one to four 6-inch targets and get to shooting. The AR-MOR Targets T-Post Hanger is a heavy duty, well made hanger as you would expect from AR-MOR Targets. [www.ar-mortargets.com](http://www.ar-mortargets.com)



## Targets USA Small KYL Target Set

The Targets USA Small KYL Target Set, which stands for Know Your Limits, will live up to its name and let you know your limits. Designed for .22LR, these 1/8 inch cut plates have 1 inch thick cold rolled round stock welded to the ends making them ultra-durable targets. The set starts with a 2-inch target and moves down in 1/4 inch increments to a very small 1/4 inch target. Perfect for competitions, or improving your accuracy on a home range, the Targets USA KYL will quickly become one of your favorite targets. The KYL set comes with 8 targets, 2 LT saw horse brackets, 7 PVC spacers and 2 lock collars. So, get yourself a Targets USA Small KYL Set and start honing your skills. [www.targetsusa.com](http://www.targetsusa.com)



## Targets USA On Edge Vertical Spinner Brackets / Saw Horse Brackets

The Targets USA On Edge Vertical Spinner Brackets / Saw Horse Brackets are the perfect bracket for your next stand. Available in a 1/4 inch LT or a 3/8 inch HD version, both are made from AR500 steel. Designed to use 3/4 inch EMT, IMT or pipe for the legs and with a choice of 3/4 inch EMT or a 2x4 for the cross bar. The brackets have a notch which allows you to secure the legs with the 4 included pins. The Targets USA On Edge Vertical Spinner Brackets / Saw Horse Brackets are the foundation for a solid portable or permanent stand for flash targets, vertical spinners, and hanging targets such as gongs. [www.targetsusa.com](http://www.targetsusa.com)

