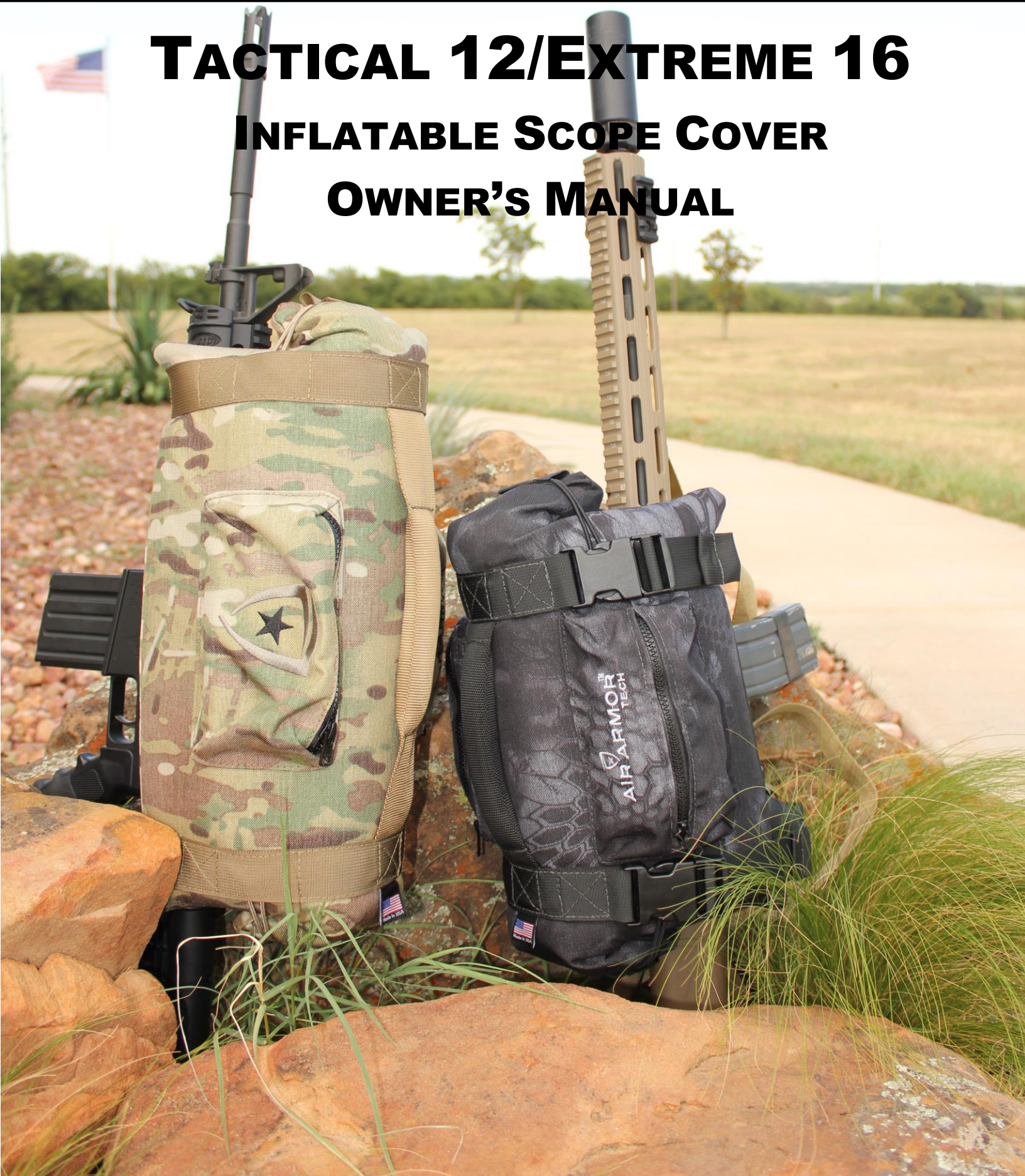




**AIR ARMOR  
TECH**

# **TACTICAL 12/EXTREME 16 INFLATABLE SCOPE COVER OWNER'S MANUAL**



*Thank you* for choosing to purchase an Air Armor Tech™ Long Gun Case, the world's highest quality Inflatable Protective Case. The design and manufacturing of this American-made, Military-Grade gear, will assure you a lifetime of extreme performance in the field.

No protective case on the planet protects better, is tougher, carries the weight of air and collapses, like a patent pending Air Armor Tech™ product. As a Military Operator, Outdoor Adventurer, Shooter, or Hunter, Air Armor Tech™ products will exceed your expectations in extreme land, air and sea environments. For more product information, instructional videos, and LIMITED LIFETIME WARRANTY information, please visit [www.AirArmorTech.com](http://www.AirArmorTech.com).



**WARNING:**  
**ALWAYS ENSURE WEAPON IS UNLOADED AND IN A SAFE CONFIGURATION PRIOR TO WEAPON HANDLING. NEVER INSERT ANY STRAP ON OR NEAR TRIGGER, TRIGGER ASSEMBLY, OR FIRING MECHANISM.**

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## SCOPE COVER QUICK REFERENCE GUIDE

1. Lay deflated scope cover on top of optic(s) with American flag aligned with the stock end of optic. **Note:** If you sling your weapon on your left shoulder, align the American flag with the muzzle end of the optic.



2. Secure straps and buckles under and around stock and handguard respectively, leaving the straps slightly loose.



3. Access oral inflation valve (designated by **red arrow** below) and ensure the silver locking ring (designated by the **blue arrow**) is screwed down into the unlocked position (clockwise). Inflate by depressing valve against front teeth and initiating air flow into bladder until completely full. Rotate locking ring to locked position (counter-clockwise) until finger tight once inflation is complete. See pages 8 and 9 for additional details.



4. Although not normally required, if pressure greater than lung pressure is desired, access manifold and either inflate mechanically via needle and rubber inflation valve (designated by **green arrow** below) – **DO NOT accidentally insert anything into the pressure relief valve** – or by holding air source against the oral inflation valve. Exercise caution when implementing alternate air sources for inflation. Excessive flow rates and pressure may exceed over-inflation valve capabilities and result in damage to the air bladder.



5. Tighten securing straps and shock cord as necessary to ensure a snug fit around the optic.



6. Deploy using carrying handle.



7. To deflate, unbuckle the straps and remove the scope cover from the weapon.

8. Open deflation pocket and depress oral inflation valve while gently squeezing the bladder as necessary.



9. Secure all straps, fold and stow.

**NOTE:** Scope cover can remain mounted to the optic/weapon system while delated; however, it is NOT recommended to carry the weapon system by the carry handle as the weapon may slip loose.



## SYSTEM COMPONENTS



1. Two MilSpec straps and MilSpec buckles used to secure the inflatable scope cover to the weapon by routing the straps under the stock/lower receiver and handguard respectively.
2. Inflation System Pocket – “Air Armor Tech” on the pocket; contains inflation manifold with two inflation valves and a pressure relief valve). Used for bladder inflation and deflation.
3. Shock Cord and Cord Locks used to apply pressure to end caps in the open and closed positions. Shock cord can be cut as desired or replaced if damaged. MilSpec cord locks adjust shock cord tension via cord lock push button.
4. Padded Carry Handle used to carry the weapon system once the scope cover is properly secured to the weapon. Not recommended to carry the weapon while scope cover is deflated.
5. Accessories Pocket - (Star and shield logo on the pocket); can be used to store inflation bulb and needle, DOPE card, cleaning kit, ammo, wind meter, etc.
6. Scope cover “ears” which fold down over the eyepiece and objective respectively to protect the glass and can be flipped up to see unobstructed through the optic; secured with shock cord.

## INFLATION POCKET & MANIFOLD

### Inflation System Pocket

Identified by the “Air Armor Tech™” name embroidered on the outside. Once opened, you will notice the exposed three-valve inflation system manifold.

**Note:** Locking ring pictured in the unlocked position. Unscrew (counter-clockwise) to extend into the locked position if desired which prevents inflation valve depression. Should be locked when case is in use.

### Pressure Relief Valve

**NEVER INSERT INFLATION NEEDLE INTO THIS VALVE OR DAMAGE CAN OCCUR.**

This is a fully automatic valve that opens at approximately 5.35 psi to relieve pressure in the case of over inflation, either by the user or from atmospheric changes. Ensure valve port is kept clean and free of foreign debris for proper activation.

### Oral Inflation Valve

This MilSpec valve is spring loaded to the closed (extended) position. **The valve must be depressed to allow air flow.** To orally inflate, simply **depress the valve by pushing valve against the front of your teeth** and exhale into bladder. Human lung pressure provides approximately 1-1.5 psi of inflation pressure.

### Rubber Inflation Valve

A Tachikara 1060 rubber inflation valve, found in most footballs and basketballs, provides mechanical inflation via inflation needle access and can be purchased in most sporting goods stores. **Moisten inflation needle prior to inserting into the valve;** use air pump to inflate.



## SCOPE COVER MOUNTING PROCEDURES

**WARNING:**  
**ALWAYS ENSURE WEAPON IS UNLOADED AND IN A SAFE CONFIGURATION PRIOR TO WEAPON HANDLING. NEVER INSERT ANY STRAP ON OR NEAR TRIGGER, TRIGGER ASSEMBLY, OR FIRING MECHANISM.**

The Tactical 12 inflatable scope cover is designed to secure and protect up to a 12” Overall Length (OAL) scope and the Extreme 16 inflatable scope cover is designed to secure and protect up to a 16” OAL scope.

Lay deflated scope cover on top of the scope with the **Made in the USA flag toward the stock if you sling your rifle on your right shoulder (flag towards the muzzle if you sling on your left shoulder)**. This position buckles and valves away from a worn backpack. **Align the aft end of the scope cover with the aft end of the scope.**



Align the rear strap straight down and underneath the stock or lower receiver, typically behind the trigger guard and/or pistol grip. Secure front and rear MilSpec buckles.



**IMPROTANT:** Leave the MilSpec straps loose to allow the bladder to inflate. When inflation occurs, the straps will tighten. Once fully inflated, tighten straps if necessary.



## INFLATING YOUR SCOPE COVER

### Oral Inflation Procedure

Gently apply pressure against the rubber “plunger” type oral inflation valve with the front teeth and exhale into the bladder until desired firmness is achieved. If additional air pressure is desired, top off with a hand operated or mechanical air pump. See inflation procedures below.

**Note:** During normal field operations, human lung pressure (approx. 1 psi) is all that is needed to adequately protect weapon and optic systems. During moderate to high risk environments, it is recommended to operate at higher bladder pressures.

### Hand Operated Mechanical Inflation Procedure

It is recommended to only use hand operated mechanical inflation sources for bladder pressure “top off”. Average lung pressure generally provides adequate protection unless operating in high risk environments. **Moisten inflation needle prior to inserting into Rubber Inflation valve to prevent damage. CAUTION: NEVER TRY TO INSERT THE NEEDLE INTO THE RELIEF VALVE AS DAMAGE WILL OCCUR.** Gently and fully insert the needle into rubber inflation valve. Activate hand operated mechanical air source until desired bladder firmness is achieved. Once inflation is complete, **hold edges of Rubber Inflation Valve and gently remove needle.**

### Engine Driven Mechanical Air Source

**Caution: Extreme care must be taken when using engine driven air sources with high flow rates that exceed relief valve exhaust rates. The relief valve should open between 4-5psi, but if inflating with a shop compressor regulated at a moderate to high flow rate, catastrophic failure of the bladder will likely occur.**

If using a mechanical air source to inflate via the oral inflation valve:

- Hold air source against valve and depress oral inflation valve. Initiate airflow from low flow rate air source. **Be sure to intermittently check the bladder pressure and firmness to avoid over inflation.**

If using a mechanical air source to inflate via the rubber inflation valve:

- Attach inflation needle to air source. Moisten and insert needle into rubber valve. Initiate airflow from low flow rate air source. **Be sure to intermittently check the bladder pressure and firmness to avoid over inflation.**

**Note:** Nitrogen and Argon significantly reduce atmospheric expansion and contraction characteristics compared to ambient air and can be used in Air Armor Tech™ bladders. This should be considered when operating in moderate to extreme atmospheric changes such as sky diving, air travel, base jumping, wing suite flying, etc. **ALWAYS CHECK AND COMPLY WITH AIR TRAVEL RULES AND REGULATIONS.**

## ONCE INFLATED

**Tightly secure the scope cover** to the weapon by pulling the straps tight as required.



Adjust the shock cord to desired tightness via cord lock. Simply depress the button on the MilSpec cord lock and adjust the tightness. Shock cord tightness will affect the end caps staying in the open or closed position.



Once the Air Armor Tech™ scope cover is properly secured to the weapon system, the carry handle is ready for use. Additionally, use of the Air Armor Tech™ scope cover allows for continued use of all sling attachment points as normal.



## DEFLATING YOUR SCOPE COVER

Deflate the scope cover by depressing the MilSpec Oral Inflation valve. Assist by squeezing the bladder as necessary. The Air Armor Tech™ scope cover can remain mounted to the optics and weapon system while deflated, however, **Air Armor Tech™ DOES NOT recommend carrying the weapon system with the carry handle or scope cover when the scope cover is deflated as the weapon can slip loose.**



If the oral inflation valve remains stuck in the open position (valve stays depressed), simply twist or depress it by bumping it with the palm of your hand to facilitate valve reseating and ensure valve is free of foreign debris.

**Note:** Be careful not to forcefully twist or “wring” the case or bladder during deflation as bladder damage can occur.

Once bladder is completely deflated, the scope cover can easily be folded or rolled to stow for storage.



## ADDITIONAL NOTES & HELPFUL TIPS

### Atmospheric Influence on your AAT Product

A constant air pressure in the bladder will not sustain forever. Air Armor Tech™ testing has proven our air bladders will remain fully inflated for many months in a controlled environment. However, ambient air is largely influenced by fluctuating atmospheric conditions. Changes in temperature, barometric pressure and altitude will cause slight pressure changes to occur in the inflated bladder.

Air bladder pressure increase is caused by:

- Drop in Barometric pressure (hurricane approaching)
- Increase in temperature
- Increase in altitude or elevation
- Riding the space shuttle to outer space

Air bladder pressure decrease is caused by:

- Increase in Barometric pressure (typhoon retreating)
- Decrease in temperature
- Decrease in altitude or elevation (HALO jump)

While it is NOT necessary, if you want to keep the bladder at maximum pressure, you will occasionally have to “top off” with the hand pump or other mechanical source when some atmospheric changes occur. For example, if it is a hot summer night in the desert and the temperature drops while using your Air Armor Tech™ gun case as a mattress, the bladder pressure will slightly drop. Conversely, if you’re cruising a middle eastern summer desert in a vehicle with the A/C at max cold, when you get out of the vehicle with your weapon system protected by an inflated Air Armor Tech™ product, the bladder pressure will rise as the desert air burns your sinus cavities. Don’t worry, the automatic pressure relief valve will protect the air bladder from over-inflation, subtly hissing as it relieves pressure. Rest assured, the relief valve is fully automatic and will close by itself.

The more severe the atmospheric change, the more bladder pressure change will occur. Some typical examples of drastic atmospheric changes include: wingsuit flying, sky diving, climbing or descending to higher or lower altitudes. **A great way to significantly reduce these air bladder pressure changes is to inflate the bladder with argon or nitrogen which is readily available in stores and online.** The pressure changing characteristics of these inert gases is significantly better than ambient air. This is why aircraft tires, and many car tires, are inflated with nitrogen.

### Alternative uses for Air Armor Tech™ Inflatable Products

- Gun rest or rear gun bag used to brace gun, body or extremities
- Spotting scope rest/protection
- Pillow
- Floatation device (not USCG certified floatation device)
- Assistance in mobilization of injured arm or leg

## CLEANING AND MINOR REPAIR OF YOUR COVER

### Cleaning Instructions

Cleaning your Air Armor Tech™ case is simple and easy. All you need is some soap and hot water. First, you'll want to deflate the bladder using the method described above in the section on 'Deflating Your Gun Case'. Then you will need to remove the bladder from the nylon shell. To do this you will first undo the zipper of the inflation system pocket and tuck the entire manifold down inside the shell as noted below.



Next lay the case out flat and locate the free seam running down the centerline as indicated by the red line below. Separate the seam so you can see the exposed bladder. Now you may completely separate the bladder from the nylon shell by gently pulling the bladder out of the slit.



Take a rag or a brush with some hot, soapy water and scrub the area you want to clean. If you are seeking a deeper clean, you may put the entire exterior nylon shell in a conventional washer and wash with mild detergent on the delicate cycle. Let the product air dry once you are done cleaning; DO NOT PUT THE NYLON SHELL IN THE DRYER.

## Maintenance/Repair

While it is not likely to happen, accidents do occur and your bladder may suffer a rupture due to over pressurization or a puncture from a sharp object. As intimidating as this may seem, it is not the end of the world and your bladder can be quickly repaired in the field so that you can keep protecting your weapon when it matters the most.

We have provided you with two Tear-Aid™ Type A patches which you can store in one of the accessory pouches of your case to ensure you'll always have access to them. The following are instructions taken straight from the Tear-Aid™ user's manual:

*"For best results apply to a clean, dry surface. Clean the surface to be repaired with an alcohol prep pad, or a 50/50 mixture of rubbing (isopropyl) alcohol and water. **Before proceeding make sure surface is dry, and you have the correct patch type for the kind of material you are repairing.***

*Surface temperature of the materials to be repaired should be 50°F or warmer. Do not put repaired material into a washer or dryer.*

**STEP 1:** *Cut patch to size with scissors allowing for the patch size to extend 1 inch beyond all edges of the tear. If using more than one patch, allow for patch sizes to overlap at least 1 inch. Trim square corners into rounded corners.*

**STEP 2:** *Carefully peel back ½ inch of paper liner. Tearing the paper liner while stretching the edge of the patch will help to separate the liner from the patch - especially when the patch has been cut into smaller sizes.*

**STEP 3:** *Position and anchor exposed ½ inch edge – allowing the patch to extend 1 inch beyond all edges of the tear. Slowly peel back the liner while carefully applying the patch over the tear – take care to avoid air bubbles. Rub all edges to seal. Rub entire patch aggressively. Follow Steps 1-3 on the back side of the repair if you have access to the back side. Repair is complete.*

**IMPORTANT:** *The Type A Patch is at approximately 90% adhesion upon initial application and 100% adhesion after one (1) hour."*

Once the patch is firmly in place, inflate the bladder per the standard inflation procedures. If you intend to inflate to pressures higher than 1 psi, it is recommended you wait one hour for 100% adhesion, as prescribed in the instructions above, for best results. Immediate inflation at or below 1 psi is acceptable. Now you are ready to go!

# TECHNICAL SPECIFICATIONS & TROUBLESHOOTING

## Product Specifications

### Extreme 16

Total Length: Accepts up to 16.5” optic

Empty Weight: 18 oz

Outer Shell Material: 1000D, Urethane-coated, Cordura fabric

Inner Shell Material: 500D, Urethane-coated, Cordura fabric

Bladder Material: 200D Nylon Laminate

Zippers: YKK™ 316 Stainless Steel

Manifold: Thermoplastic Polyurethane Elastomer

### Tactical 12

Total Length: Accepts up to 12” optic

Empty Weight: 16 oz

Outer Shell Material: 1000D, Urethane-coated, Cordura fabric

Inner Shell Material: 500D, Urethane-coated, Cordura fabric

Bladder Material: 200D Nylon Laminate

Zippers: YKK™ 316 Stainless Steel

Manifold: Thermoplastic Polyurethane Elastomer

## Troubleshooting Tips

*My scope cover won't hold air; what's wrong with it?*

Once inflated, ensure the valve does not stay depressed and that the locking ring on the oral inflation valve is in the locked position. If that is not the problem, contact Air Armor Tech™ at (817) 487-3837

*The protective ears on my scope cover don't stay in place very well; what am I doing wrong?*

Ensure that the shock cord is outside of the securing straps and make sure that the guide tab for the shock cord is flipped all the way back or all the way forward depending on position.

*The rubber inflation valve popped out during the inflation process; can I fix it?*

Yes, simply push the conical end of the valve down into the manifold to seat it.

*I accidentally inserted the inflation needle into the overpressure valve; what do I do?*

Call Air Armor Tech™ at (817) 487-3837.

*If using an air compressor to inflate my scope cover, what should I set the outlet pressure at?*

We have found that 40 psi or less at the outlet is safe for inflation of the scope cover. Anything higher, you will run the risk of damaging the bladder.

## WARRANTY INFORMATION

If you need help or don't understand how a product or component is supposed to work, please do not hesitate to contact us. We'll be glad to spend the time necessary to solve your problem. You may also find our website helpful, which includes "how to" pictures and videos. The owners and employees of Air Armor Tech™ share a common goal, which is providing very high-quality, American-made products to fit the needs of our customers. We stand behind this goal and are dedicated to ensuring customer satisfaction.

### **30-Day Money-Back Guarantee**

If your Air Armor Tech product is not everything we promised, return it to us for a full refund on the cost of purchase, no questions asked. We make this bold guarantee because we are so confident that you will be more than satisfied with not only the performance of the air protection, but also with the design and workmanship of the product itself.

### **Limited Lifetime Warranty**

Air Armor Tech, LLC (Air Armor Tech) limited lifetime warranty is provided at no cost to the original purchaser and covers any defects in workmanship, with the exceptions stated below, for the lifetime of the product. Lifetime means the market life of the warranted product. As long as the warranted product is in production at Air Armor Tech, LLC, and replacement parts remain available, the product is covered.

### **Specific Provisions and Exclusions**

This warranty does not cover aesthetic changes (changes in the product's appearance) due to outdoor exposure and normal use. This warranty does not cover products that have been physically altered, damaged, or subjected to negligence. This warranty does not cover the air bladder, which Air Armor Tech warrants against defects in materials and workmanship for a period of five (5) years from the invoice date. This warranty does not cover components of the inflation system, which include the following: pressure relief valve, oral inflation valve, and inflation system housing which contains and secures the inflation valves, hardware (such as dividers, handles, wheels, buckles, zippers, or fasteners), which Air Armor Tech warrants against defects in materials and workmanship for a period of one (1) year from the invoice date. This warranty does not cover the rubber inflation system valve, which is very easy to replace by the consumer (see rubber valve replacement procedures at [www.airarmortech.com](http://www.airarmortech.com)).

### **To the Extent Permitted by Law**

Air Armor Tech is not liable for indirect, punitive, incidental, consequential, or special damages, regardless of whether a claim for such damages is based on this warranty, and the remedies outlined in this warranty are the exclusive and sole remedy of the original purchaser, and this warranty is in lieu of all warranties, express or implied, including, but not limited to, any implied warranties of merchantability and fitness for a particular purpose, and Air Armor Tech's liability to the original purchaser for damages shall not exceed the purchase price of the product against which damages are claimed.



### **Warranty Claim Procedure**

Before filing a warranty claim with Air Armor Tech, please try to contact Air Armor Tech at [info@airarmortech.com](mailto:info@airarmortech.com) or by phone at (817) 487-3837. In many cases this will lead to faster resolution than a formal claim. Any warranty claims must be made by the original purchaser within the timeframe of the warranty. Products require a copy of the original purchase receipt from Air Armor Tech.

Warranty claim requests must include the model number and a complete description of the defect. Where possible, images of the defect should be included. To make a warranty claim, the purchaser must contact Air Armor Tech, Attn: Customer Support, 118 Metrotex Dr., Suite 8, Haslet, TX, 76052, in writing, or by using the Air Armor Tech website Contact Us form (<http://airarmortech.com/contact-us/>), by email ([info@airarmortech.com](mailto:info@airarmortech.com)), or by telephone (817) 487-3837.

The original purchaser must obtain a Return Authorization (RA) number from Air Armor Tech Customer Support prior to returning any product. The RA number must be included with any returned product. Product(s) returned must be cleaned. Product(s) returned must be free of personal items. Personal items found in the product or return packaging will not be returned, and may be cause for rejection of the claim. The original purchaser is responsible for paying freight costs to Air Armor Tech. If Air Armor Tech determines any returned product is not defective within the terms of this warranty, the purchaser agrees to pay Air Armor Tech all handling, return freight and approved repair costs at Air Armor Tech's prevailing rates



## CONTACT US

If you have any questions or comments, please contact Air Armor Tech™ at the following:

info@airarmortech.com  
(817) 487-3837

For more product information, instructional videos, and LIMITED LIFETIME WARRANTY information, please visit <https://airarmortech.com/>.

**The ruggedness of a hard case with the portability of a soft case; that's the advantage of AIR.**



*Made in America*

A Veteran Owned Company