



AIRFRAME™ ATX HELMET

OPERATOR'S MANUAL

THIS MANUAL MUST BE CAREFULLY READ BY ALL PERSONS WHO HAVE OR WILL HAVE THE RESPONSIBILITY FOR USING OR MAINTAINING THIS PRODUCT. FAILURE TO USE AND MAINTAIN THE PRODUCT ACCORDING TO ITS INSTRUCTIONS MAY RESULT IN THE PRODUCT FAILING TO PERFORM AS DESIGNED, AND/OR THE PERSONS RELYING ON THIS HELMET SUSTAINING SERIOUS PERSONAL INJURY AND/OR DEATH.

Any warranties made by Crye Precision LLC with respect to this product are voided if the product is not used and maintained in accordance with the instructions in this manual. For any questions relative to the use or repair of this product, please write Crye Precision LLC or call 1-718-246-3838 during regular business hours.

WARNINGS

The following are general safety warnings intended to call attention to fundamental performance limitations and areas of the helmet where proper usage must be followed. Failure to adhere to the below instructions and warnings could result in serious personal injury or death to the wearer.

- This helmet is designed to protect the wearer against a specific range of projectile threats while benefitting from a minimal overall weight. This protection does have its limits and will not protect the wearer against all threats. Certain threats may exceed the helmets capabilities and cause serious injury including severe brain damage and death. Refer to helmet specifications for performance related data.
- It is important to note that certain regions of the helmet provide less protection than others. Specifically, this helmet shell is not intended to protect against impacts that occur within 1 inch of any peripheral edges.
- Inspect the helmet before and after EACH use. Do not alter the helmet in any way.
- This helmet is not to be relied upon to protect the wearer from falls from motor vehicles or bicycles, or for similar activities.
- Fit problems, such as excessive tightness, should be corrected by adjusting helmet pad locations as instructed in this manual and by ensuring that the appropriate helmet shell size is being used.
- All replacement parts should be acquired from Crye Precision or a licensed distributor.
- The most current version of this manual may be found at www.cryeprecision.com.

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INTRODUCTION

The AirFrame™ ATX is our law enforcement focused ballistic helmet—designed to offer the same advantages of our original AirFrame™ helmet while meeting IIIA ballistic requirements. The unique overlapping shell design of the AirFrame™ creates an integrated vent that provides passive cooling and can reduce the damaging effects of explosive blast waves. Each AirFrame™ helmet features an Ops-Core® H-Nape Head-Loc™ retention system for unmatched stability, comfort, and ease of adjustment. Up armoring the AirFrame™ with ballistic ear or face protection is simple and fast (see our Ears™ and Chops™ for more info). All helmets and components are compatible with common ear-pro systems like Peltors® and Sordins®. Made in the US from US materials.

FEATURES

- Meets IIIA ballistic requirements
- Revolutionary vented shell design for passive cooling
- Covers more of wearer's nape than traditional designs
- Modular ear and face protection available
- Modular ARC Rail™ system available (O₂ compatible)
- Contain 3/4" pads
- Can be pre-drilled at factory for 3-hole or 4-hole NVG mounts (configuration compatible with Ops-Core® and Wilcox® 3-hole mounts)

COMPONENT DESCRIPTIONS (IMAGES NOT TO SCALE)



① FRONT SHELL



② REAR SHELL



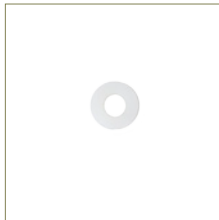
③ SHELL SCREW SHORT (x 2)



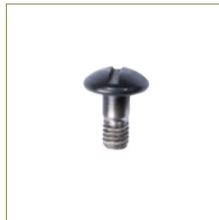
④ SHELL SCREW LONG (x 2)



⑤ SMALL T-NUT (x 4)



⑥ NYLON INSERT (x 2)



⑦ HELMET STRAP BOLTS (x 4)



⑧ LARGE T-NUT (x 4)



⑨ HELMET STRAP



⑩ OBLONG PADS

MD (x 6)
 LG (x 7)
 XL (x 8)



⑪ TRAPEZOIDAL PADS (x 2)

OPERATOR INSTRUCTIONS

NVG MOUNTING OPTIONS

AirFrame™ ATX helmets can be ordered with pre-drilled mounting holes for standard 3-hole or 4-hole night vision mounts. **This must be specified at the time of order.**



Standard 3-hole configuration for night vision mounts



3-hole night vision mount installed



Standard 4-hole configuration for night vision mounts



4-hole night vision mount installed

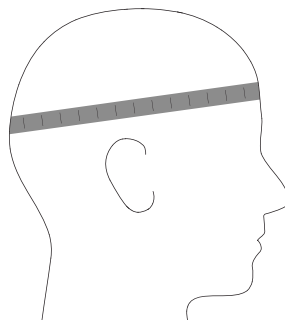
SHELL SIZING

Follow the instructions below in order to ensure a correct shell size selection. Select the proper helmet size based on your head circumference. If a measurement falls directly in between two sizes, select the larger size. See the note at bottom of the page for exceptions. Whenever possible, try on a helmet and allow the pads to adjust for five minutes in order to determine which size has the best fit.

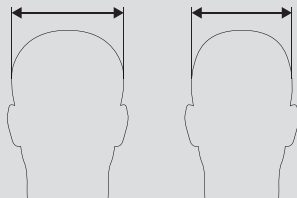
*Note: Pads affect sizing—if using an alternative pad set, try on the helmet to choose the proper size.

MEASURING HEAD CIRCUMFERENCE

Sit straight with your head level. Wrap a vinyl tape measure around your head. Start just above eyebrow ridges and wrap around widest part of the head as shown in the diagram. Pull the tape measure tight and record the measurement. Use the table below to determine the correct helmet size.



21	22	23	24	25
MEDIUM 20½"–22½"		LARGE 22½"–24½"		X-LARGE >24½"



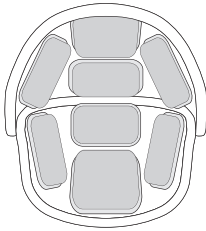
NOTE: HEAD SHAPES DIFFER

Users on the threshold of two sizes, but with a narrower head (6" width and below), may be able to fit into the smaller sized shell, where users with a wider head (over 6" width) should move to the larger size.

PAD PLACEMENT

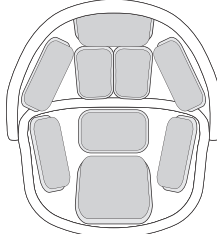
Standard AirFrame™ pad placement is shown below. The number of oblong pads varies with helmet size. **MEDIUM** helmets require 6 oblong pads, **LARGE** helmets require 7 oblong pads, and **EXTRA LARGE** helmets require 8 oblong pads. All helmets require two trapezoidal pads.

MEDIUM



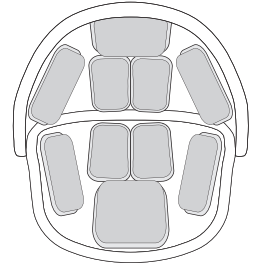
LARGE

FRONT OF HELMET



BACK OF HELMET

EXTRA LARGE



Pad placement is designed to offer optimal protection and comfort. It is critical that pads are placed as shown in the below diagrams and that the pads nearest chinstrap hardware mounting points are situated to overlap said hardware—failure to do so may result in injury or death.



DONNING

*Straps may need to be retightened after a few minutes of wear as helmet pads can soften.



1 Ensure the chinstrap is unbuckled and all straps are loosened.



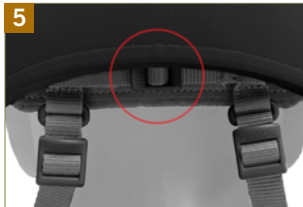
2 Don the helmet and ensure that the nape pad is positioned correctly.



3 Buckle the chin strap.



4 Pull the front and rear strap adjusters until snug.



5 The nape pad can be tightened by pulling on the nape adjuster. The nape pad adds additional stability to the helmet, which can be useful when wearing NVGs.

FIT ADJUSTMENT

A

HELMET IS TOO TIGHT OR TOO HIGH

It is extremely important that the helmet not be sized and fitted to sit too high on the head. If the crown pads do not hit the head (wearer cannot feel pads), then the helmet may be too high. When fitting, look upward by moving your eyes, but without moving your head. If the rim of the helmet cannot be seen, the helmet may be too tight.

- Try rearranging the pads
- If rearranging the pads does not alleviate the tightness, a larger helmet shell size may be required

B

HELMET IS TOO LOOSE OR TOO LOW

If the helmet is too low on the brow, not compatible with eyewear, or has other similar compatibility issues, it may be too loose.

- Increase the number of pads in shell (additional pads can be purchased separately)
- If additional pads do not correct the fit, a smaller helmet shell size may be required

CLEANING INSTRUCTIONS

HELMET SHELL

Remove helmet pads from helmet shell and clean separately. Helmet shell can be washed with a mild soap and water using a soft brush or cloth. Towel dry the helmet shell and allow to air dry completely indoors or in a shaded area.

HELMET PADS

Helmet pads should be washed by hand using a mild soap and cold water. A soft bristled brush or wash cloth can be used to remove dirt. Allow pads to air dry indoors or in a shaded area. DO NOT WRING.

PREVENTIVE MAINTENANCE CHECKLIST

In order to ensure optimal performance, the user should routinely inspect the helmet for damage, wear marks, or missing components. Any damaged components should be replaced immediately. Any of the following issues should be immediately reported and remedied:

- Shell cracks
- Bubbles
- Signs of ply separation
- Fraying webbing
- Damaged plastic hardware
- Peeling helmet edging
- Loose fasteners

REASSEMBLY

Instructions for reassembly of helmet shell halves.

*If assembling AirFrame™ accessories such as Chops, Ears, or Rails, refer to their instructions for greater detail.



With the **FRONT SHELL** held upside down, install the two **LONG SHELL SCREWS** and two **NYLON SPACERS**.



Place the **REAR SHELL** onto the **LONG SHELL SCREWS** and loosely thread on **SMALL T-NUTS**.



Insert two **SHORT SHELL SCREWS** into the side holes on the helmet.



From the inside of the helmet, loosely thread on **SMALL T-NUTS**.

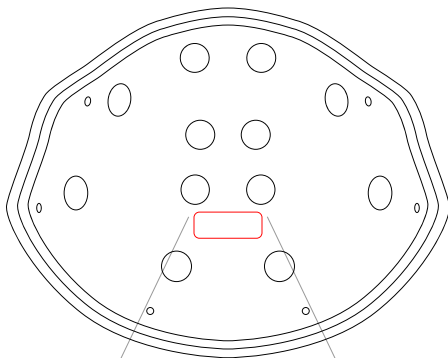
4 Table 1: Torque Values	
Helmet Shell Screws	6 in. Lb. (.7 Nm)
Strap Bolts	20 in. Lb. (2.3 Nm)



- 4 Once all helmet **SHELL SCREWS** are installed, tighten by hand to torque values specified in **Table 1**.
- 5 Insert **LARGE T-NUTS** through plastic strap anchors and loosely thread **STRAP BOLTS** through the shell.
- 6 Once all **STRAP BOLTS** are installed, tighten one at a time to the torque value specified in **Table 1**. Ensure the strap anchors are positioned as shown in the images to the left.
- 7 Reinstall the helmet **PADS**, referring to the pad placement instructions (**PG 5**).

SERIAL NUMBERS

Front and rear helmet shells each have a unique serial number located on the inner shell surface. Write your helmet serial numbers below for future reference. Serial numbers should be included when contacting Crye Precision about issues with your helmet or for replacement parts.



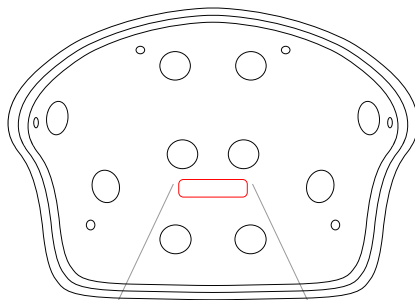
FRONT SHELL

AIRFRAME™ ATX HELMET

 **S/N:**

P/N: HLM-AX1

CRYE PRECISION PAT. WWW.LWPATENTS.COM MADE IN THE USA



REAR SHELL

 **S/N:**

P/N: HLM-AX1

CRYE PRECISION PAT. WWW.LWPATENTS.COM MADE IN THE USA

ABOUT US

Crye Precision designs and manufactures truly innovative equipment for America's fighting forces. We are proud and honored to serve our customers' needs. We spend as much time as we can with users, continuously incorporating their experience and feedback into the gear. We give them our full support and are indebted to them for their service and their sacrifice. We make uncompromising gear for uncompromising individuals. We work hard to provide smart, high-performance, long-wearing gear for people who demand the best. We make all of our gear in America from American materials. Every item is designed to help you perform better.

WARRANTY

If a defect in materials or workmanship is found in any of our products, we will repair or replace it, free of charge, for the lifetime of the product. This excludes normal wear and tear. Be aware that the customer is responsible for any and all return shipping charges. This applies to the original purchaser and is nontransferable.

BODY ARMOR

It is against Federal Law for a person convicted of a violent felony to purchase or possess body armor. In addition, various states also have laws restricting the purchase or possession of body armor by persons convicted of certain felonies, other crimes of violence, or drug crimes. By purchasing body armor, you acknowledge and certify that (i) you have no felony convictions, (ii) you have not been convicted of any other crime that would restrict your ability to purchase or possess body armor under any Federal or State law, (iii) you do not intend to use the body armor for any criminal purpose and (iv) you are over 18 years old. Crye Precision reserves the right, in its sole discretion, to refuse to sell body armor to any person. Additionally, the sale of body armor to residents of Connecticut is restricted to in-person sales, unless the sale is made to certain law enforcement or military personnel. We require that all orders of body armor be accompanied by a government issued photo identification.

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