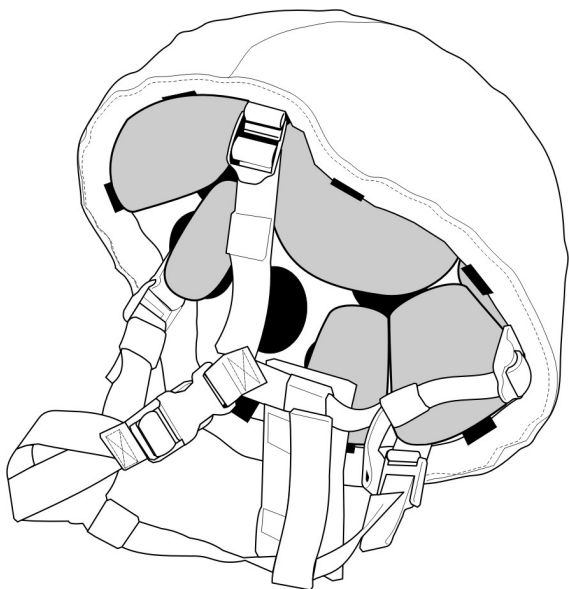


**TECHNICAL MANUAL**  
**OPERATOR'S MANUAL FOR**  
**ADVANCED COMBAT HELMET (ACH)**



DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

**\*This manual supercedes TM 10-8470-204-10, dated 30 November 2002, including all changes.**

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**HEADQUARTERS, DEPARTMENT OF THE ARMY**  
**31 MAY 2004**

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, D.C., 31 May 2004

**TECHNICAL MANUAL**  
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**REPORTING ERRORS AND RECOMMENDING  
IMPROVEMENTS**

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA form 2028 (Recommended Changes to Publications and Blank Forms or DA Form 2028-2) directly to: Commander, U.S. Army Tank-automotive & Armament Command, ATTN: AMSTA-LC-CECT, Kansas St., Natick, MA 01760. You may also submit your recommended changes by E-mail directly to: [amssbriml@natick.army.mil](mailto:amssbriml@natick.army.mil). A reply will be furnished directly to you. Instructions for sending electronic 2028 may be found at the back of this manual.

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## HOW TO USE THIS MANUAL

### OVERVIEW

This manual contains operating instructions and maintenance procedures for the Advanced Combat Helmet (ACH).

This manual is divided into the following major sections:

**Front Cover.** Provides information about the equipment covered by the TM.

**Warning Summary.** Provides a summary of all warnings that apply throughout the manual.

**Table of Contents.** Lists chapters and work packages in order of appearance.

**Chapter 1, Description and Theory of Operation.** Provides descriptions, equipment data, and theory of operation information.

**Chapter 2, Operator Instructions.** Provides sizing information, donning information, and operating instructions in both usual and unusual conditions.

**Chapter 3, Maintenance Procedures.** Provides cleaning and repair instructions and maintenance procedures.

**Chapter 4, Supporting Information.** Provides reference information, Components of End Item (COEI)/Basic Issue Items (BII) Lists, Associated and Repair Items List, and Expendable and Durable Items List.

## **NAVIGATION**

This TM is in work package format. All of the work packages contained within the TM are listed in the table of contents in the order they appear by chapters. The work package sequence number (e.g. WP 0001 00) is listed for each work package in the table of contents. The work package sequence number is at the top of each page of the work package and is also a part of the page number for each work package (e.g., WP 0001 00-1). The page numbers appear at the bottom of each page.

## **OPERATION AND MAINTENANCE**

Before you use the Operator's Manual for Advanced Combat Helmet (ACH), familiarize yourself with the assembly and fitting instructions and the operating instructions (Chapter 2). Perform maintenance procedures (Chapter 3) on a regular basis. Always follow the WARNINGS and CAUTIONS.

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**ADVANCED COMBAT HELMET  
GENERAL INFORMATION**

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**SCOPE**

This manual covers the basic fitting and use instructions for the Advanced Combat Helmet (ACH), hereafter referred to as the ACH or the helmet.

**MAINTENANCE FORMS, RECORDS, AND REPORTS**

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, Functional Users Manual for the Army Maintenance Management System (TAMMS).

**REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)**

If your helmet needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Also please report any quality deficiencies or product defects. Put it on an SF 368 (Product Quality Deficiency Report). Mail it to Commander, U.S. Army Tank-automotive and Armament Command, ATTN: AMSTA-LC-R, Kansas Street, Natick, MA 01760-5052. We will send you a reply.

**MOST CURRENT VERSION OF THIS MANUAL**

The most current version of this manual may be found at <http://www.logsa.army.mil/etms/online.htm>

**LIST OF ABBREVIATIONS/ACRONYMS**

Components of End Item (COEI)  
Basic Issue Items (BII)  
Advanced Combat Helmet (ACH)

**END OF WORK PACKAGE**

**CHAPTER 1**  
**DESCRIPTION AND THEORY OF OPERATION**  
**FOR**  
**ADVANCED COMBAT HELMET (ACH)**

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**ADVANCED COMBAT HELMET  
EQUIPMENT DESCRIPTION AND DATA**

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**EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND  
FEATURES**

The ACH is a helmet system that provides ballistic and impact protection. This system is compatible with the current night vision devices (NVG's), communications packages, and nuclear, biological, and chemical (NBC) defense equipment and body armor.

- The ACH provides ballistic protection within the full spectrum of operational environments.
- The ACH allows maximum sensory and situational awareness for the operator. This includes an unobstructed field of view and increased ambient hearing capabilities.
- The ACH's chinstrap retention system and pad suspension system provides unsurpassed balance, stability, and comfort. This system provides for proper size, fit, and ventilation.
- The ACH's pad suspension system provides impact protection throughout all operational scenarios, including static-line airborne operations.