

3M Science.
Applied to Life.™

3M™ Ultra Light Weight Ballistic
Bump Helmet N49



Ultra light. Versatile.

The first multi-use helmet for bump
and ballistic operational requirements.

Engineered to provide outstanding
head protection – while reducing
weight for improved mobility.

Lightweight, multi-use head protection



The 3M™ Ultra Light Weight Ballistic Bump Helmet N49 (ULW-BBH N49) provides multi-use ballistic protection at a significant weight reduction over conventional combat helmets, for improved mobility and reduced fatigue.

- Meets NIJ IIIA requirements
- Provides fragmentation protection >2,200 ft/s (>670 m/s) V50 against 17 grain (22 caliber) FSP
- Blunt Impact Protection meets U.S. Advanced Combat Helmet (ACH)/Enhanced Combat Helmet (ECH) requirements as tested using D3O® TRUST suspension pad set and following the test protocol outlined in the ACH or ECH product specifications (AR/PD 10-02 & GL-PD-09-04)
- Flexible rail system that offers compatibility with most standard accessories
- Rail is mounted on shell without use of through bolts, enabling the use of standard picatinny shelf adaptors that accept most operational accessories
- Compatible with hearing protection and communications systems such as the 3M™ Peltor™ COMTAC™ III, via ARC rail adaptors that allow it to mount directly to the rails
- Compatible with most industry standard 3-hole night vision goggle (NVG) mounts
- No components susceptible to corrosion
- U.S. Export Administration Regulations (EAR) controlled product

Tested in accordance to:

- NIJ Standard 0106.01 for Ballistic Helmets with NIJ 0108.01 IIIA Ballistic threats:
 - 9 mm FMJ - 124 gr – 1400-1450 ft/s (VO)
 - .44 Magnum - 240 gr – 1400-1450 ft/s (VO)
- STANAG 2920 – .22 Caliber – 17 gr FSP
- AR/PD 10-02 (latest version) for blunt impact protection (on helmets with D3O® TRUST pad system)

Construction

The ULW-BBH N49 is manufactured in the United States by Ceradyne Inc., a 3M company, using ultra-high molecular weight polyethylene composites with proprietary seamless ballistic molding technology.

- Similar sizing dimensions to the U.S. Military ACH helmet, but with a higher cut desired by U.S. and Allied Special Forces
- Boltless retention system design minimizes overall system weight while eliminating the possibility of retention bolts becoming secondary projectiles
- Retention system options offer flexibility and stability:
 - Team Wendy Cam-Fit™
 - 3M™ X-Back Retention System
- Comes standard with D3O® TRUST suspension pad set, 3M™ X-Back Retention System, side rails, 3-hole NVG shroud, bungee cords and picatinny adaptor

Optional accessories:

- Hook and loop exterior applique
- NVG counterweight

Size and Weight

(Not for specification purposes)

Size	M, L, XL
Finished Shell Weight	1.27 lbs (575 g)
Finished Helmet Weight*	2.09 lbs (950 g)
Colors	Black, Camo Green, Coyote Brown

* Size Large, standard configuration. Nominal, includes edge trim and paint. Areal weight of 1 lb per square foot (5 kg/m²).

Manufactured by Ceradyne Inc., a 3M company.

Warranty, Limited Remedy, and Disclaimer: Many factors beyond Ceradyne's control and uniquely within user's knowledge and control can affect the use and performance of a Ceradyne product in a particular application. User is solely responsible for evaluating the Ceradyne product and determining whether it is fit for a particular purpose and suitable for user's method of application. User is solely responsible for evaluating third party intellectual property rights and for ensuring that user's use of Ceradyne product in user's product or process does not violate any third party intellectual property rights. Unless a different warranty is specifically stated in the applicable product literature or packaging insert, Ceradyne warrants that each Ceradyne product meets the applicable Ceradyne product specification at the time Ceradyne ships the product. CERADYNE MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OF NON-INFRINGEMENT OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the Ceradyne product does not conform to this warranty, then the sole and exclusive remedy is, at Ceradyne's option, replacement of the Ceradyne product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, Ceradyne will not be liable for any loss or damages arising from the Ceradyne product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

Technical Information: Technical information, recommendations, and other statements contained in this document or provided by Ceradyne personnel are based on tests or experience that Ceradyne believes are reliable, but the accuracy or completeness of such information is not guaranteed. Such information is intended for persons with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any Ceradyne or third party intellectual property rights is granted or implied with this information.

Export Control. The Ceradyne product(s) listed here may be controlled commodities under applicable U.S. export control laws and regulations, including, but not limited to, the U.S. International Traffic in Arms Regulations (ITAR) and the Export Administration Regulations (EAR). These laws and regulations may, among other things, prohibit the export and/or reexport of controlled product(s) to any or all locations outside of the United States without prior U.S. Government export authorization, the sharing of export controlled technical data and services with those anywhere who are not U.S. citizens or U.S. permanent residents, dealings with U.S. Government, United Nations and other "Restricted Parties," and proliferation activities including those that further nuclear, chemical, or biological warfare, missile stockpiling/use, or the use of rockets or unmanned aerial vehicle systems. Ceradyne and purchasers or prospective purchasers of the Ceradyne product(s) shall comply with all applicable export control laws and regulations, which may require obtaining and maintaining applicable export control authorization or licenses, and understand that the ability of a party to obtain or maintain such authorization or license is not guaranteed. The exporter of record has the sole responsibility to determine whether the export or subsequent reexport of the Ceradyne product(s) requires export authorization. An explicit condition to Ceradyne selling or making available the Ceradyne product(s) is the customer's agreement to comply with all applicable trade compliance laws and regulations.



Ceradyne, Inc., a 3M company

3M Center 220-9E-02
St. Paul, MN 55144-1000

www.3M.com/Defense

3M, Peltor and COMTAC are trademarks of 3M Company.
D3O is a trademark of D3O Lab.
Cam-Fit is a trademark of Team Wendy.

Please recycle. Printed in USA. © 3M 2017.
All rights reserved. Issued: 1/17 12182HB
98-0050-0303-7 Rev. F