



Ceradyne, Inc.
a 3M company

Ballistic Helmets Foxtrot (F) Series 3M™ Ballistic Helmet F70



The F70 helmet provides a high-value combination of ballistic performance and low weight with an innovative no thru-hole construction to increase the shell's effective protection area. The integrated and configurable helmet design is intended for conventional military combat as well as special forces and law enforcement operations.

- Modular & scalable system that is mission configurable
- Optimized geometry for fit, stability and coverage

Product Highlights

- Shell is manufactured with advanced Ultra-High Molecular Weight Polyethylene (UHMWPE)
- Helmet geometry is engineered for improved coverage of critical areas and increased comfort compared to conventional helmets
- No drill thru-holes
- Reverse dovetail rails accept common industry accessories
- Shroud accepts industry standard Night Vision Goggles (NVG)
- Retention and pad systems provide excellent protection, stability and comfort
- Multiple accessories available including ballistic mandible and visor.

Weight Finished shell weight with paint and trim		
	F70 Extended	F70 Tactical
Small	~1.75lbs (0.79 kg)	~1.52lbs (0.69 kg)
Medium	~1.78lbs (0.81 kg)	~1.56lbs (0.71 kg)
Large	~1.89 bs (0.86 kg)	~1.72lbs (0.78 kg)
XL	~2.09 bs (0.95 kg)	~1.85lbs (0.84 kg)

Ballistic Helmets Foxtrot (F) Series

3M™ Ballistic Helmet F70

Ballistic Performance

Tested in accordance to NIJ Standard 0106.01 for Ballistic Helmets to the following ballistic resistance*

Level IIIA Helmet to NIJ 0108.01 IIIA Ballistic threats:

- 9 mm FMJ - 124 gr – 1400-1450 ft/s (430 m/s) (V0)
- .44 Magnum - 240 gr – 1400-1450 ft/s (430 m/s) (V0)
- 9mm Back Face Deformation (BFD) (9 mm FMJ - 124 gr – 1400-1450 ft/s <25.4 mm)

Provides fragmentation protection against 17 grain .22 caliber FSP with V50 value >2,760fps (>840 m/s) when tested in accordance to STANAG 2920

- Meets or exceeds all US Army Advanced Combat Helmet (ACH) ballistic fragmentation requirements* for 2gr, 4gr, 16gr & 64gr RCC & 17gr FSP when tested in accordance with MIL-STD662F.

Ballistic Mandible:

17 gr .22 caliber FSP V50 650 m/s (2130 ft/s)

Ballistic Visor:

17 gr .22 caliber FSP V0: 180 m/s (560 ft/s)



Blunt Impact Protection

Tested and evaluated with D3O® Trust Pad System to DOT&E protocol in accordance with AR/PD 10-02, AR/PD 14-01 and GL/PD 09-04 (Latest versions)

The F70 helmet has been evaluated and determined suitable for the U.S. Air Force static line and military free-fall operations under the Test Parachute Program (TPP).

Ordering Information

The F70 Helmet includes retention, suspension, rails, NVG shroud, bungee cords, picatinny adaptor, and hook & loop applique

3M ID	Style	Size	Color	Retention	Suspension
7100171039	Tactical Cut	Small	Brown	X-Back	D3O – 9 Pad
7100170899	Tactical Cut	Medium	Brown	X-Back	D3O – 9 Pad
7100170892	Tactical Cut	Large	Brown	X-Back	D3O – 9 Pad
7100171018	Tactical Cut	X-Large	Brown	X-Back	D3O – 9 Pad
7100171033	Tactical Cut	Small	Brown	Dial	D3O – 9 Pad
7100171003	Tactical Cut	Medium	Brown	Dial	D3O – 9 Pad
7100170889	Tactical Cut	Large	Brown	Dial	D3O – 9 Pad
7100171061	Tactical Cut	X-Large	Brown	Dial	D3O – 9 Pad
7100171346	Extended Cut	Small	Brown	X-Back	D3O – 7 Pad
7100171121	Extended Cut	Medium	Brown	X-Back	D3O – 7 Pad
7100171105	Extended Cut	Large	Brown	X-Back	D3O – 7 Pad
7100171270	Extended Cut	X-Large	Brown	X-Back	D3O – 7 Pad
7100171294	Extended Cut	Small	Brown	Dial	D3O – 7 Pad
7100171170	Extended Cut	Medium	Brown	Dial	D3O – 7 Pad
7100171097	Extended Cut	Large	Brown	Dial	D3O – 7 Pad
7100171368	Extended Cut	X-Large	Brown	Dial	D3O – 7 Pad

Accessories



Ballistic Visor (Brown)
7100168403



Ballistic Mandible (Brown)
7100168403



Helmet Covers



Ballistic Helmet Bag
7010350718



Rail Picatinny Adaptor
Brown: 7010291009



3M Counterweight Pocket
(Includes weights)
Brown:: 7100159152

	<u>Size</u>	<u>3M ID</u>
Tactical Cut	S	7100206667
Tactical Cut	M	7100206836
Tactical Cut	L	7100206675
Tactical Cut	XL	7100206671
Extended Cut	S	7100206672
Extended Cut	M	7100206835
Extended Cut	L	7100206677
Extended Cut	XL	7100206670

Warning

Only qualified and trained operators should use these helmets. Many factors uniquely within the user's knowledge and control can affect the use and performance of the helmet. The user is solely responsible for evaluating the helmet and determining whether the helmet is suitable for user's intended conditions of use. Misuse or failure to follow warnings and user instructions may result in serious personal injury or death.

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
3M.com

For more information visit
3M.com/BallisticHelmets or call
Technical Service at
1-800-367-8905 or email:
ah-ballistichelmets@mmm.com

© 3M 2019. All rights reserved.
3M is a trademark of 3M Company. All other
trademarks are the property of their respective
owners. 3M Ceradyne products are occupational
use only. D3O® is a registered trademark
of Design Blue Limited.