UHMWPE BALLISTIC COMBAT HELMET

SARKAR ARES HIGH CUT

NIJ Level IIIA | AEP-2920 | AEP-2902



PRODUCT OVERVIEW

The Sarkar ARES is a lightweight high-cut combat helmet built from a UHMWPE Ultra-High-Molecular-Weight Polyethylene composite shell. the UHMWPE composite shell delivers greater performance and a lighter weight, versus traditional Aramid shells.
The high-cut design clears in-ear and over-ear communication headsets and hearing protection, while a three-hole shroud and side rails carry NVG, lights, cameras and CBRN equipment.
Top-Velcro accommodates patches and insignia, as well as IR illuminators.







IIIA	**735 m/s**	**G + H**	**1.10 kg**
NIJ Level IIIA handgun protection	Minimum fragment V_{50}, 17 gr FSP (req. 700 m/s)	AEP-2902 blunt impact methods: all impacts pass	Medium shell, helmet only

KEY FEATURES

Architecture	High cut. Raised side trim for comms headsets and hearing protection
Ballistic threats	Stops .357 SIG and .44 Magnum handgun rounds (NIJ Level IIIA)
Blunt impact	Passes AEP-2902 Methods G and H
Retention	Sarkar FlexLoc 4-point dial system with quick release
Mounting	Sarkar Night Eagle three-hole NVG shroud, side accessory rails

Shell	UHMWPE composite, single-piece construction
V_{50} rating	735 m/s minimum against the 17 gr fragment. (NATO requires 700 m/s)
Fire & chemical	Self-extinguishing. Resists diesel fuel and insect repellent
Liner	Halo 7-pad as standard. Halo 9-pad or 3-pad optional
Sizes	S, M, L. Head circumference 53–64 cm

COLOURS

Black	Cam Green 383	Coyote Brown 498	Foliage Green 504	Tan 686A
FED-STD-595C #37030	FED-STD-595C #34094	FED-STD-595C #20150	FED-STD-595C #34160	FED-STD-595C #33446

Other colours and custom national schemes available on request.

THE HELMET SYSTEM

ARES ships as a complete system. Retention, NVG mount, top-loop and impact liner are fitted as standard, with liner and cover options to suit the headset and the mission.



TRAX SIDE RAILS

Standard

Tactical Rail Accessory eXoskeleton: dual ARC side rails for lights, strobes, cameras, IFF and hearing protection.

- ARC-pattern rails; Picatinny (MIL-STD-1913) compatible directly or via adapters
- Two detachable Picatinny adapters supplied
- Carries kit without compromising balance, stability or comfort



FLEXLOC RETENTION

Standard

4-point dial retention with Cam Lock dial for one-handed adjustment, with or without gloves.

- Spreads even pressure around the head for stability under NVG
- Asymmetric buckle sits along the jaw line, clear of stocks and optics
- Lined chin cup; left-eye-dominant option on request



NIGHT EAGLE NVG SHROUD

Standard

36 g three-hole shroud for night vision, illumination and cameras.

- Engineered glass-polymer housing over aircraft-grade aluminium
- CERAKOTE-coated interface; interchangeable insert
- Snag-free, low-profile and corrosion resistant; bungees supplied



HALO 7-PAD / 9-PAD

7 std · 9 opt

Rate-sensitive D3O pads in a dual-density build: soft for comfort, stiffening on impact.

- 7-pad supplied as standard; 9-pad available as an option
- One size fits all shells; hook-and-loop fixing, tool-free
- Anti-bacterial, moisture-wicking MILSPEC fabric covers



TOP-LOOP KIT

Standard

Four precision-cut loop panels for insignia, IFF patches, IR markers and illuminators.

- Covers top, sides and rear, clear of the NVG shroud and rails
- Top 18 × 5 cm · occipital 17 × 5 cm · sides 10 × 5 cm (±10%)
- Colour-matched to the helmet shell



HALO 3-PAD LINER

Optional

Three-piece, full-coverage liner for a plush fit on long missions.

- Self-conforming crown pad works with comms headsets
- Integrated air channels for ventilation and moisture control
- 0.75″ or 1″ thickness; S/M/L and XL liner sizes



HELMET COVER

Optional

MultiCam cover contoured to the high-cut shell.

- Full coverage over frontal and occipital zones and the crown
- Cut to keep the NVG shroud and lower rails clear
- One size fits all

INDEPENDENTLY TESTED

Oregon Ballistic Laboratories · SMS Testing · Newton S.r.l.

Paint adhesion	Highest class on EN ISO 2409 and ASTM D3359 B	PASS
Accessory screws	No penetrations at fastener locations	PASS
Flammable liquid trap	Flames out in 10–12 s (req. ≤15 s)	PASS
Ease of release	Chinstrap releases at 18–27 N (req. ≤30 N)	PASS

Full test evidence summary supplied with the proposal.

SIZING & WEIGHT

SIZE	HEAD CIRC.	HELMET ONLY	WITH SHROUD, RAILS, BUNGEES
S	53–57 cm	1.08 kg	1.23 kg
M	56–60 cm	1.10 kg	1.26 kg
L	59–64 cm	1.17 kg	1.31 kg

Three shell sizes fit from 1st-percentile female to 98th-percentile male.

SUPPLIED WITH

- Zipped helmet bag
- User manual
- Certificate of Conformity for each lot
- Made under ISO 9001, ISO 14001 and AQAP 2110 certified management systems

REQUEST THE FULL TEST PACK

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