



**Busch PROtective**

PRODUCT CATALOG

PROTECT  
WHAT  
MATTERS



## Busch PROtective



### LETTER FROM OUR CEO

Holding our catalog in your hands instills in me a sense of pride. It means that we succeeded in gaining your trust—a valuable currency among public safety professionals.

We at Busch PROtective see ourselves not only as a manufacturer of protective gear but as a partner standing shoulder to shoulder with our customers, offering the best products on the market. We believe that in a world of global change, personal protective equipment (PPE) not only needs to provide the highest level of protection but also act as a versatile tool for you to perform your mission. With our best-in-class family of products, we have created an impressive line of helmet systems that are specially designed for you—a professional working in law enforcement, civil disturbance, fire protection, or search and rescue.

With our claim “Protect What Matters,” we deliberately avoid a clear definition of what matters. You and only you know what that is. We, at Busch PROtective, are proud to provide you the best possible equipment to protect what matters to you.

Stay safe and... protect what matters.

Edwin Busch,

CEO

A handwritten signature of Edwin Busch in black ink, appearing as a stylized cursive script.



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# 40+ YEARS OF PROtection



## 1981

FOUNDED

Busch PROtective was founded in 1981 by Egon Busch to develop and produce protective headgear for motorcyclists. With this original goal—to provide groundbreaking civilian head protection—the company laid the foundation of its later success.

## 1990

EARLY DAYS

From its early days, Busch PROtective has been focused on going the extra mile when it comes to developing superior protective products. In the early 1990s, after selling thousands of motorcycle helmets to the European market, the company was selected to develop a new ballistic helmet for the German Army. After several years of research in ballistic labs around the world, Busch PROtective developed complex ballistic solutions of which the basic trooper helmet is still in use today.

## 1991

EUROPEAN MARKETS

Introducing a successful product into the European ballistic helmet market prompted the development of sister company Sestan-Busch located in Croatia, which is now one of the largest military helmet manufacturers in Europe, providing military-grade helmet systems to the global defense market.

## 1995

GERMAN MANUFACTURING

In 1995, Busch PROtective re-entered the civilian market with the production of high-end safety helmets. The company soon became one of the largest helmet manufacturers in Germany, selling hundreds of thousands of helmets per year; designed and made in Germany and assembled in a separate production facility in the Czech Republic.

## 2007

FIRE RESCUE

In the early 2000s, the company joined forces with Dräger to produce high-end helmets for the global firefighter market, providing another milestone in the company's history of developing and producing superior helmet systems with state-of-the-art mass production.

## 2014

SECOND GENERATION

In 2014, Edwin Busch assumed control of the company, offering a second generation of capable leadership with a fresh take on the ballistic helmet market. With a legacy starting in the early 80s and an exciting future ahead, Busch PROtective again entered a new market and soon became the leading helmet company in the ballistic and non-ballistic market, providing helmet systems focused towards Law Enforcement and Rescue Services.

## 2016

RAISING THE BAR

In 2016, the company developed the world's first non-metal VPAM certified helmets, successfully combining its expertise in the military, firefighter and civilian helmet markets. The company succeeded in not only certifying its new line of helmets to this gold standard of ballistic head gear, but also broke the mold in providing a system that is over 25% lighter than any other helmet on the market. Selling thousands of VPAM certified helmets to the European market, Busch PROtective soon started to expand into the global market, partnering with distributors around the world.

## 2018

NORTH AMERICA

In 2018, the company founded a new location in the United States to provide faster service and local assembly to the growing North American market. Outfitting numerous Federal agencies including FBI, DEA, U.S. Marshalls, ATF, as well as multiple US Law Enforcement, Fire and Rescue teams, Busch PROtective became the world leader in head protection systems specifically designed for Public Safety operations. Working closely with the Department of Justice, the expected level of ballistic performance out of helmet systems vastly improved with the launch of the DEA-FBI Ballistic Helmet Testing Protocol in 2019.

## TODAY

LEADING FROM THE FRONT

With nearly a half-century of experience developing and producing the best protective gear in the industry, we are excited to be able to continue to offer state-of-the-art products, service, and performance to a growing legion of customers around the world.



**Busch PROtective**



# VERTICAL INTEGRATION & DEVELOPMENT

## From Concept to PROtection

From concept...to production, we collaborate with industry leading experts, operators, and material specialist while maintaining control of our development and design process in-house. By implementing rapid-prototyping and immediate end-user feedback, we are able to find custom solutions, while ensuring that final production meets our strictest standards.

# BUSCH MODULARITY

## BUILDING THE PERFECT CUSTOM HELMET SYSTEM FOR YOUR OPERATIONAL NEEDS



By designing helmet systems with modular components, we have the ability to build and deliver customized helmet systems not just to unique teams, but specific individuals as needed.



Integrating unique design features such as our CMR-1 Rail that can accept the Speed Connect System and attach visors, mandibles, and other accessories in the field, gives you the complete modularity to kit out a helmet that will protect you across multiple operations.

# TESTING & CERTIFICATIONS



## NIJ LEVEL IIIA 0106.01 (1981)

**Updated in 1981** from the original 1975 release, the NIJ IIIA test has been the most widely used methodology when looking at ballistic performance of military style helmets. This standard, simple in nature, is limited to testing for only PENETRATION of two caliber rounds (9mm & .44Mag). Unlike soft body armor products, which are tested and officially “certified” by the NIJ, there is no official certification for NIJ IIIA helmet, only tests for penetration.



## VPAM (VPAM-HVN-2009) CERTIFICATION

**VPAM** (Vereinigung der Prüfstellen für angriffshemmende Materialien und Konstruktionen) is the Gold Standard of ballistic testing certification within Germany, Austria, and Switzerland. Required by Most Special Anti-Terror, Counter-Terror and High speed Police Units within Europe, including Germany’s GSG9 and SEK, this level of protection uses a more realistic ballistic testing aspect which is specific to close quarter combat threats that Law Enforcement Officers or Anti-Terror Units will be exposed to during operations. These specialized units, in comparison to soldiers, are more exposed to the likelihood of being shot within the head region, whilst working in confined spaces due to the proximity and nature of their work.



## DEA-FBI BALLISTIC HELMET TESTING PROTOCOL (2019)

**Comprehensive** in nature, the FBI & DEA BRF Helmet Testing Protocol, created by a Dept. of Justice collaboration from 2017 to 2019, is the most comprehensive helmet testing protocol in the United States, and first with tangible and definable criteria since the voluntary testing criteria 0106.01 published by the NIJ in December, 1981. Spearheaded by the FBI & DEA at the FBI Ballistic Research Facility in Quantico VA, the United States’ premier ballistic testing facility, the protocol has been issued as the gold standard for the US Department of Justice including FBI, DEA, USMS, and ATF.

Specifically designed to limit Agent susceptibility during a ballistic event, significant attention was focused on limiting energy transfer into the head in addition to standard penetration testing against the 9mm, 124gr reference round fired between 1375-1450 f/s. By limiting back face deformation in the most extreme environmental and technical conditions (mimicking what an agent may encounter in the field), the protocol promotes short term survivability, allowing the Agent the ability to remain engaged ‘in the fight’ should a ballistic/ impact event occur, as well as long term reduction of possible TBI (Traumatic Brain Injury.)

# HELMET TESTING STANDARDS SINCE 1981



## NIJ-VPAM-DEA/FBI

40 years ago, stopping the fragment/bullet was enough. However, as technology has improved, so has the expectation that helmet systems must work in the most extreme environments and subjected to the harshest conditions. Secondly, reducing Traumatic Brain Injury (TBI) is recognized as a significant goal, as limiting energy transfer into the skull

during a ballistic event offers long term officer safety as well as the ability to stay 'in the fight'. The following chart outlines the main Helmet Testing Protocols over the past 40 years, and their primary focus/testing features.



| STANDARD  | NIJ (1981)  | VPAM3 (2009)   | DEA-FBI (2019)  |
|---|---|--|---|
| Penetration - 9mm                                     | ✓   | ✓  | ✓   |
| Penetration - 44mag                                   | ✓   |  |   |
| Multi-Shot (Total Rounds)                             | ✓ 20 Shots total (5 rounds per helmet x 4 helmets). | ✓ 29 Shots total   | ✓ 44 Shots total (6 rounds on 4 helmets, 5 rounds on 4 helmets)   |
| Shot Placement  | Pre-determined: Front, Back, Side(s) & Crown        | ✓ Random, unknown shot locations   | ✓ Pre-determined: 44 unique loctions/ conditioning tests  |
| Backface Deformation (Energy Transfer into the skull) |   | ✓ Measured by utilizing ballistic soap and technical apparatus showing amount of kinetic energy transfer | ✓ Measured by using 'Peepsight' clay headmold and FARO 3-D imaging technology to determine backface deformation and energy transfer       |
| Edge Testing  | All shots are placed 50mm (2") from edge            | ✓ Multiple Shots at 20-25mm from edge  | ✓ Multiple Shots at 25mm from edge at ambient, cold and hot temps   |
| Hardware (Bolts & Connecting Screws)                  |   | ✓ All bolts shot during testing  | ✓ Connecting Bolts shot directly as well as 'near-bolt' shots placed adjacent to hardware to ensure no secondary fragmentation internally |
| Wet Conditioning                                      | ✓ 2 of 4 Helmets tested wet                         |  | ✓ 2 of 8 Helmets submerged in water before tested   |
| Extreme Cold  |   | ✓ -20°C  | ✓ 2 of 8 Helmets cooled to (-40F) before tested   |
| Extreme Hot   |   | ✓ +70°C  | ✓ 2 of 8 Helmets heated to (+140F) before tested  |
| Blunt Impact/Energy Transfer                          |   | ✓ Measured to less than 25 Joules  | ✓ Drop test of 25ft/Sec to simulate fall from Helo  |
| Shell Compression                                     |   |  | ✓ Subjected to 300lbs Shell Compression for shell integrity   |
| Retention & Harness                                   |   |  | ✓ Dynamic & Static Harness Strength testing   |
| Certification   | Official Certification does not exist               | ✓ Officially Certified   | ✓ Officially Certified  |

# HELMET PERFORMANCE INDEX – HPI

## HPI RATINGS EXPLAINED

Today's Law Enforcement and Rescue Heroes are facing complex hazard scenarios, due to ever changing tasks and a variety of overlapping duties. As a Manufacturer for personal protective equipment, we understand the demanding expectations customers have towards their protective gear in order to do their day-to-day job. With almost 40 years of experience in providing protective head gear for Police and Military as well Fire and Rescue Services, Busch PROtective has tracked and analyzed hazard scenarios to develop a comprehensive scoring system to map helmet performance levels. Divided into 8 categories the Busch PROtective Helmet Performance Index (HPI) gives professionals a tool to choose the best and most fitting PPE for their individual operations. Each category is further divided into levels from 0-4, with 4 being the highest score in the specific category.



### BALLISTIC RESISTANCE

Scores the helmet's ability to stop ballistic projectiles of various kinds. Multi hit capability, ability to stop projectiles extremely close to the helmet edge and maximizing ballistic surface area are key factors in this category.

### BALLISTIC BACK FACE DEFORMATION

Measures the kinetic energy transferred to the user's head - Arguably the most important category for ballistic helmets used in a Law Enforcement beyond penetration.

### FRAGMENT RESISTANCE

Gives an indication of the helmet's ability to stop small, high-velocity fragments generated by explosives.

### IMPACT ABSORPTION

Shows the helmets capability to absorb blunt impact to the wearer's head. The absorption of energy is one of the most basic requirements a helmet should fulfill, but is heavily overlooked in today's public safety environment.

### PENETRATION RESISTANCE

This category highlights the helmet's ability to resist sharp and/or pointed objects by that could cause severe punctures.

### FIRE AND CHEMICAL RESISTANCE

A category to show how resilient a helmet is against fire and chemical hazards.

### MECHANICAL RESISTANCE

Taking into account a large variety of mechanical hazards like side compression, harness strength and stability as well as abrasive testing of the helmets shell, this category gives a good overview of the helmet's ability to resist heavy-duty stresses and environmental conditions.

### WEIGHT

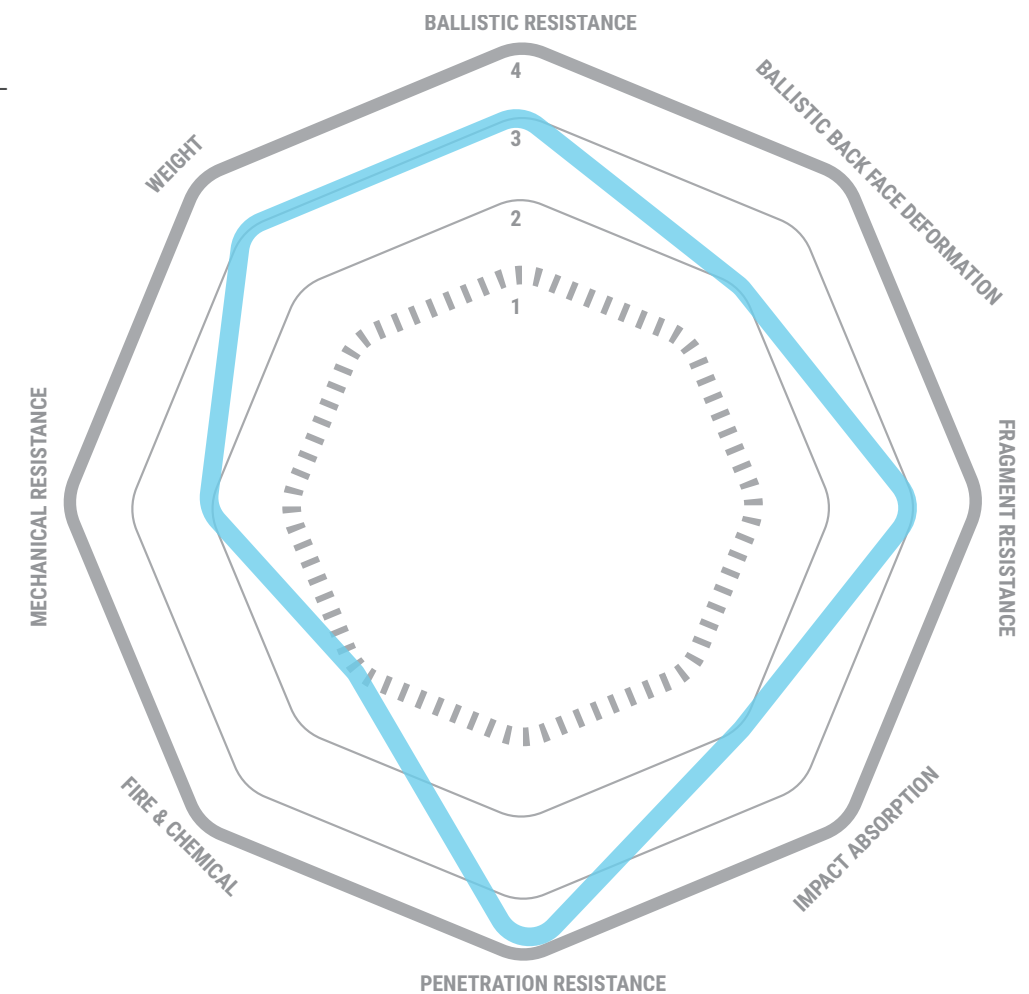
A distinctive category to map the overall helmet weight which effects long-term wearer health as well as on-duty ergonomic fatigue; thus the ability to stay focused and capable during the full duration of the operation.

These 8 categories offer a visual map of the helmet performance characteristics and gives end-users and purchasers the ability to find the best fitting protective system for their mission. Easy to read radar charts provide a fast and simple way to compare various helmet systems with each other. (Bullet Point) Spikier charts indicate specialized

helmet systems, while more rounded charts indicate a more balanced system.(Bullet Point) Overall surface-area covered by the radar map gives an indication of the overall performance of the product with a larger chart surface typically identifying products with a higher overall performance.

## HPI INDICATORS

- 4. OUTSTANDING
- 3. EXCELLENT
- 2. GOOD
- 1. MINIMAL





# PATROL & TACTICAL



# AMP-1 TP

## NIJ IIIA+, DEA-FBI PROTOCOL, VPAM3 BALLISTIC HELMET

Our most robust aramid ballistic helmet, tested to the DEA-FBI Ballistic Helmet Protocol as well as the VPAM3 standard. Available configured in high, mid or fullcut, the AMP-1TP offers world-class ballistic protection against both IIIA (9mm & .44mag), STANAG 2920 fragmentation, as well as numerous special threats including 7.62 Tokarev, 9mm SXT, QDPEP, & evolving threats.

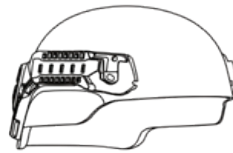
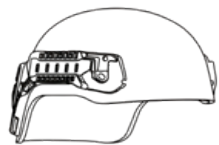


### HELMET CUTS

HIGH CUT WITH RAILS

MID CUT WITH RAILS

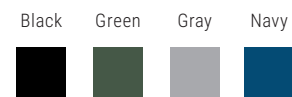
FULL CUT WITH RAILS



Available with or without rails and NVG Shroud



### COLORS



### SPECIFICATIONS:

**BALLISTIC CONSTRUCTION:** Woven Aramid Fiber with EBSP-Technology

**STYLE:** ACH/ECH

**COATING:** 2K Scratch-Resistant Paint

**STYLE:** High, Mid and Full Cuts

**EDGE PROTECTION:** EPDM Rubber edging

**SHOCK ABSORPTION:** EPP-1/ CPP-1 Impact System

**HARNES:** CRS-2 Adjustable wheeldial with multi-size, quick-detach chinstrap system, CAM buckles, tailored to right or left-handed shooters

**SIZE:** Unisex 52-62 cm / 6 1/2 to 8

**INTERFACES:** CMR-1 Modular Rails with Speed Disconnect Visor/Accessory System, 3-Hole NVG Shroud capable

**CERTIFICATIONS:** NIJ, VPAM, DEA-FBI DOJ



# AMP-1 TP

NIJ IIIA+, DEA-FBI PROTOCOL,  
VPAM3 BALLISTIC HELMET

**CMR-1**

MULTI-FUNCTIONAL VISOR MOUNT & PICATINNY RAIL  
ALLOWING MODULAR ACCESSORIES INCLUDING, VISORS,  
LIGHTS, EAR PROTECTION, ETC

**COM-1**

ADAPTERS DESIGNED TO ENABLE MOST  
INDUSTRY LEADING EAR PROTECTION BRANDS/  
MODELS TO SEAMLESSLY INTEGRATE INTO THE  
BUSCH RAIL SYSTEM INCLUDING PELTOR®, TCI  
LIBERATOR®, INVISIO®, OTTO®, ETC

**CAP-2**

FUNCTIONAL LOOP VELCRO® FOR ACCESSORIZING HELMET  
COVERS, STROBES, & ID EMBLEMS

**NVG-1**

MULTIPLE SHROUD OPTIONS  
INCLUDING WILCOX® AND  
ARMORAUSTRALIA®

**SCS-1**

SPEED-CONNECT-SYSTEM (SCS) ALLOWING  
RAPID, EASY-ATTACH VISOR OPTIONS

**CRS-2**

MULTI-POINT ADJUSTMENTS,  
LOCKING HELMET SECURELY  
TO OPERATOR

**EPP/CP**

ENERGY ABSORBING & COMFORT PADDING  
SYSTEMS DESIGNED TO KEEP THE OPERATOR  
SAFE AND COMFORTABLE

**CRS-2**

PROPRIETARY WHEEL-DIAL TIGHTENING  
SYSTEM, ADJUSTING FROM XS-XL WITH  
ONE HAND, QUICKLY AND SECURELY



|                            | WEIGHT IN LBS & GRAMS |       |       |       |         |       |
|----------------------------|-----------------------|-------|-------|-------|---------|-------|
|                            | MEDIUM                |       | LARGE |       | UNISIZE |       |
|                            | LBS                   | GRAMS | LBS   | GRAMS | LBS     | GRAMS |
| <b>SHELL ONLY HIGH CUT</b> | 2.61                  | 1184  | 2.77  | 1260  | 3.48    | 1580  |
| <b>SHELL ONLY MID CUT</b>  | 2.7                   | 1227  | 2.87  | 1306  | 3.5     | 1590  |
| <b>SHELL ONLY FULL CUT</b> | 2.85                  | 1297  | 3.04  | 1380  | 3.63    | 1650  |
| <b>COMPLETE HIGH CUT*</b>  | 3.31                  | 1504  | 3.48  | 1580  | 5.21    | 2365  |
| <b>COMPLETE MID CUT*</b>   | 3.4                   | 1548  | 3.57  | 1626  | 5.24    | 2375  |
| <b>COMPLETE FULL CUT*</b>  | 3.55                  | 1617  | 3.72  | 1700  | 5.37    | 2435  |

\*Complete With Rails, Inside Equipment, Harness, Pads & Hardware  
(Medium & Large weight projected)



# AMP-1E

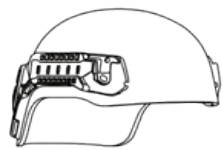
## NIJ IIIA+ BALLISTIC HELMET

Lightweight aramid ballistic helmet, that is ideal for any public safety operation, whether Patrol, SWAT or Fire/Rescue. Available configured in high, mid or fullcut, the AMP-1E offers excellent ballistic protection against both IIIA (9mm & .44mag) as well as STANAG 2920 fragmentation threats.

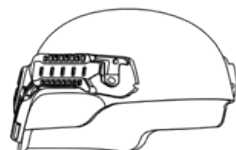


### HELMET CUTS

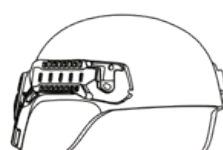
#### HIGH CUT WITH RAILS



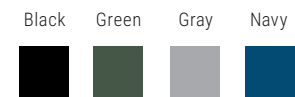
#### MID CUT WITH RAILS



#### FULL CUT WITH RAILS



### COLORS



Available with or without rails and NVG Shroud

### SPECIFICATIONS:

**BALLISTIC CONSTRUCTION:** Woven Aramid Fiber

**STYLE:** ACH/ECH

**COATING:** 2K Scratch-Resistant Paint

**STYLE:** High, Mid and Full Cuts

**EDGE PROTECTION:** EPDM Rubber edging

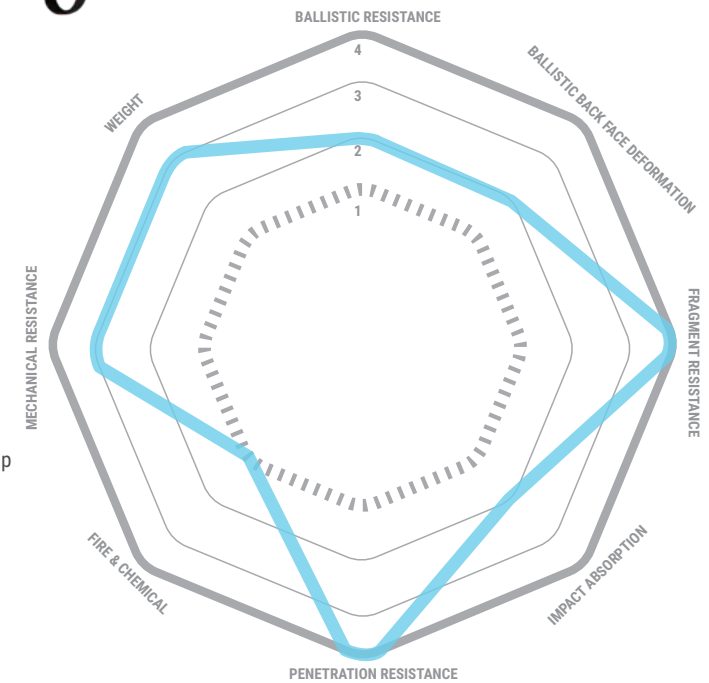
**SHOCK ABSORPTION:** EPP-1/ CPP-1 Impact System

**HARNES:** CRS-2 Adjustable wheeldial with multi-size, quick-detach chinstrap system, CAM buckles, tailored to right or left-handed shooters

**SIZE:** Unisex 52-63 cm / 6 1/2 to 8

**INTERFACES:** CMR-1 Modular Rails with Speed Disconnect Visor/Accessory System, 3-Hole NVG Shroud capable

**CERTIFICATIONS:** NIJ IIIA V50 = 650m/sec w/ 17gr fragment



# AMP-1E

## NIJ IIIA+ BALLISTIC HELMET

**CAP-2**  
FUNCTIONAL LOOP VELCRO® FOR ACCESSORIZING HELMET COVERS, STROBES, & ID EMBLEMS

**NVG-1**  
MULTIPLE SHROUD OPTIONS INCLUDING WILCOX® AND ARMORAUSTRALIA®

**SCS-1**  
SPEED-CONNECT-SYSTEM (SCS) ALLOWING RAPID, EASY-ATTACH VISOR OPTIONS

**CRS-2**  
MULTI-POINT ADJUSTMENTS, LOCKING HELMET SECURELY TO OPERATOR

**CMR-1**  
MULTI-FUNCTIONAL VISOR MOUNT & PICATINNY RAIL ALLOWING MODULAR ACCESSORIES INCLUDING, VISORS, LIGHTS, EAR PROTECTION, ETC

**COM-1**  
ADAPTERS DESIGNED TO ENABLE MOST INDUSTRY LEADING EAR PROTECTION BRANDS/MODELS TO SEAMLESSLY INTEGRATE INTO THE BUSCH RAIL SYSTEM INCLUDING PELTOR®, TCI LIBERATOR®, INVISIO®, OTTO®, ETC

**CRS-2**  
PROPRIETARY WHEEL-DIAL TIGHTENING SYSTEM, ADJUSTING FROM XS-XL WITH ONE HAND, QUICKLY AND SECURELY

**EPP/CPP**  
ENERGY ABSORBING & COMFORT PADDING SYSTEMS DESIGNED TO KEEP THE OPERATOR SAFE AND COMFORTABLE



|                            | WEIGHT IN LBS & GRAMS |       |       |       |         |       |
|----------------------------|-----------------------|-------|-------|-------|---------|-------|
|                            | MEDIUM                |       | LARGE |       | UNISIZE |       |
|                            | LBS                   | GRAMS | LBS   | GRAMS | LBS     | GRAMS |
| <b>SHELL ONLY HIGH CUT</b> | 2.13                  | 970   | 2.26  | 1034  | 2.89    | 1310  |
| <b>SHELL ONLY MID CUT</b>  | 2.35                  | 1070  | 2.51  | 1140  | 3.15    | 1430  |
| <b>SHELL ONLY FULL CUT</b> | 2.41                  | 1095  | 2.56  | 1165  | 3.19    | 1450  |
| <b>COMPLETE HIGH CUT*</b>  | 2.71                  | 1230  | 2.85  | 1294  | 4.62    | 2095  |
| <b>COMPLETE MID CUT*</b>   | 2.93                  | 1330  | 3.09  | 1400  | 4.88    | 2215  |
| <b>COMPLETE FULL CUT*</b>  | 2.99                  | 1355  | 3.14  | 1425  | 4.93    | 2235  |

\*Complete With Rails, Inside Equipment, Harness, Pads & Hardware (Medium weight projected)

# CROWD & RIOT CONTROL



# ARC-2E

## RIOT (IMPACT & BALLISTIC) HELMET

In addition to riot & impact protection, the ARC-2E has been tested against small caliber handgun rounds such as .22, .9mm, .40, and .45ACP and offers the user comfort in virtually any fluid environment where they may face additional ballistic threats. Coupled with a small, modular rail to mount lights, cameras or strobes, the ARC-2E is the premier lightweight dual-use riot helmet globally.



### SPECIFICATIONS:

**BALLISTIC CONSTRUCTION:** Fiber Reinforced Duroplast with Aramid

**STYLE:** Full-cut Anti Riot Shape

**COATING:** 2K Scratch-Resistant Paint

**EDGE PROTECTION:** EPDM Rubber edging

**SHOCK ABSORPTION:** EPP-1/ CPP-1 Impact System

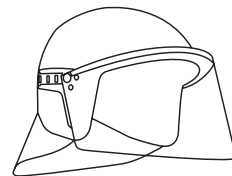
**HARNES:** CRS-2 Adjustable wheeldial with multi-size, quick-detach chinstrap system, CAM buckles, tailored to right or left-handed shooters

**SIZE:** Unisize (S-XL) 52-62cm/6.5-8.0)

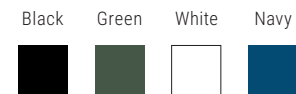
**INTERFACES:** CMR-1 Modular Rails with Speed Disconnect Visor/Accessory System

**CERTIFICATIONS:** NIJ, 9mm

### HELMET CUTS



### COLORS



PADDED RIOT HELMET BAG

| WEIGHT IN LBS & GRAMS |       |       |       |         |       |
|-----------------------|-------|-------|-------|---------|-------|
| MEDIUM                |       | LARGE |       | UNISIZE |       |
| LBS                   | GRAMS | LBS   | GRAMS | LBS     | GRAMS |
| 3.69                  | 1678  | 3.93  | 1786  | 4.3     | 1950  |

(Medium & Large weight projected)



# AMR-1E+

## RIOT (IMPACT & PENETRATION PROTECTION) HELMET

A high-end helmet with remarkable blunt impact and penetration protection. Modular and safe. Protects the head in a dynamic environment, from riot & crowd protection to corrections and cell extraction.



### SPECIFICATIONS:

**CONSTRUCTION:** Fiber reinforced duroplast with aramid

**STYLE:** Riot cut

**COATING:** 2K Scratch-Resistant Paint

**EDGE PROTECTION:** EPDM Rubber edging

**SHOCK ABSORPTION:** CPP-1 R Pad System (EPP- & Soft pads) FR optional

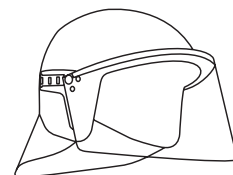
**HARNES:** "CRS-2 harness system; variants available FR optional"

**SIZE:** Unisize (S-XL) 52-62 cm/6.5-8.0 in

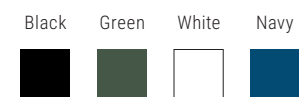
**INTERFACES:** CRR-1 rail system, with integrated mandible and mask interface

**CERTIFICATIONS:** blunt impact resistance according to EN 397, 5.1.1 resistance to penetration according to EN 397, 5.1.2 flame resistance according to EN 397, 5.1.3 blunt impact resistance and resistance to penetration have been performed at -10°C (6.2.3), water immersion +20°C (6.2.5) and +50°C (6.2.4) Penetration per CSN\_395360\_TON3\_TON1

### HELMET CUTS



### COLORS



| WEIGHT IN LBS & GRAMS |       |       |       |         |       |
|-----------------------|-------|-------|-------|---------|-------|
| MEDIUM                |       | LARGE |       | UNISIZE |       |
| LBS                   | GRAMS | LBS   | GRAMS | LBS     | GRAMS |
| 2.88                  | 1310  | 3.06  | 1395  | 3.5     | 1595  |

(Medium & Large weight projected)



# AMR-1E

## RIOT (IMPACT) HELMET

An impact helmet that offers outstanding blunt trauma resistance, in a modular, lightweight configuration. Capable of protecting the user in a multitude of dynamic environments, from riot & crowd control to corrections & cell extraction.



### SPECIFICATIONS:

**CONSTRUCTION:** Fiber reinforced duroplast

**STYLE:** Full-cut Anti Riot Shape

**COATING:** 2K Scratch-Resistant Paint

**EDGE PROTECTION:** EPDM Rubber edging

**SHOCK ABSORPTION:** EPP-1/ CPP-1 Impact System

**HARNES:** CRS-2 Adjustable wheeldial with multi-size, quick-detach chinstrap system,

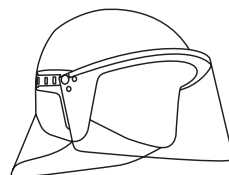
CAM buckles, tailored to right or left-handed shooters

**SIZE:** Unisize (S-XL) 52-62cm/6.5-8.0)

**INTERFACES:** CMR-1 Modular Rails with Speed Connect Visor/Accessory System

**CERTIFICATIONS:** EN397

### HELMET CUTS



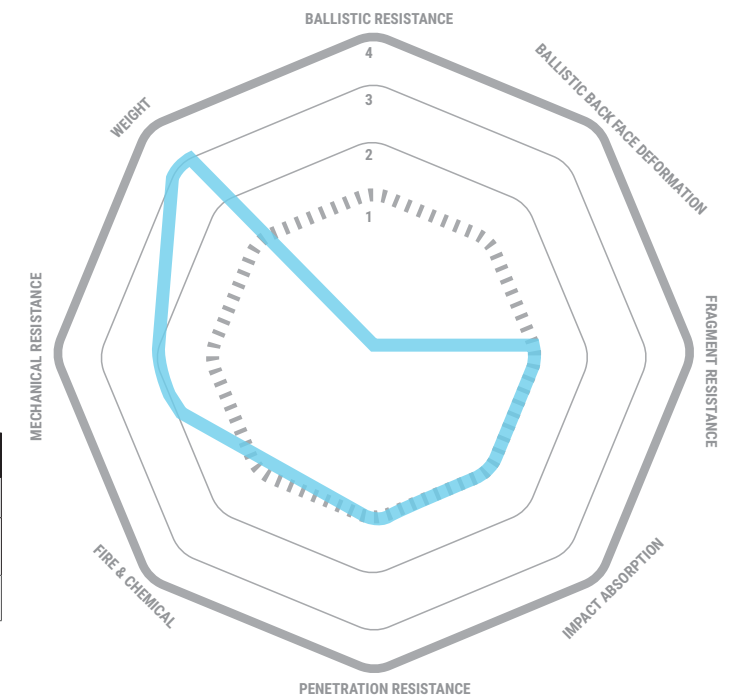
### COLORS

Black Green White Navy



| WEIGHT IN LBS & GRAMS |       |       |       |         |       |
|-----------------------|-------|-------|-------|---------|-------|
| MEDIUM                |       | LARGE |       | UNISIZE |       |
| LBS                   | GRAMS | LBS   | GRAMS | LBS     | GRAMS |
| 2.62                  | 1190  | 2.79  | 1269  | 3.2     | 1450  |

(Medium & Large weight projected)



# TRAINING / SEARCH AND RESCUE



# AMH-2

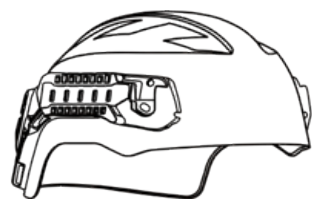
## IMPACT/RESCUE HELMET

Providing excellent impact protection, the AMH-2 is a lightweight, yet extremely durable helmet ideally suited to urban & field rescue operations, training scenarios where ballistic weight is not ideal, and dynamic movements in aerial and vehicular situations.



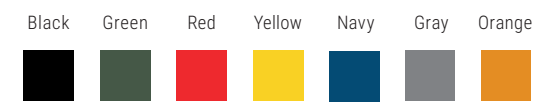
### HELMET CUTS

#### HIGH CUT WITH RAILS



Available with or without rails and NVG Shroud

### COLORS



### SPECIFICATIONS:

**CONSTRUCTION:** Fiberglass reinforced thermoplast SMC

**STYLE:** ACH/ECH

**COATING:** 2K Scratch-Resistant Paint

**STYLE:** High-Cut

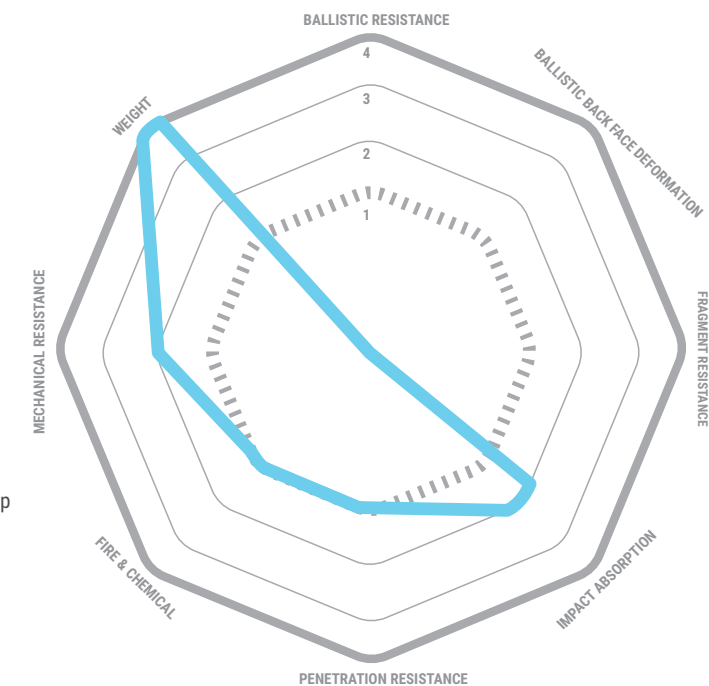
**EDGE PROTECTION:** EPDM Rubber edging

**SHOCK ABSORPTION:** EPP-1/ CPP-1 Impact System

**HARNES:** CRS-2 Adjustable wheeldial with multi-size, quick-detach chinstrap system, CAM buckles, tailored to right or left-handed shooters

**SIZE:** Unisex 52-63 cm / 6 1/2 to 8

**INTERFACES:** CMR-1 Modular Rails with Speed Disconnect Visor/Accessory System, 3-Hole NVG Shroud capable



# AMH-2

## IMPACT/RESCUE HELMET



| WEIGHT IN LBS & GRAMS     |       |       |       |         |       |
|---------------------------|-------|-------|-------|---------|-------|
| MEDIUM                    |       | LARGE |       | UNISIZE |       |
| LBS                       | GRAMS | LBS   | GRAMS | LBS     | GRAMS |
| <b>SHELL HIGH CUT</b>     |       |       |       |         |       |
| 1.01                      | 460   | 1.08  | 493   | 1.39    | 630   |
| <b>COMPLETE HIGH CUT*</b> |       |       |       |         |       |
| 1.58                      | 720   | 1.65  | 750   | 3.12    | 1450  |

\*Complete With Rails, Inside Equipment, Harness, Pads & Hardware  
(Medium & Large weight projected)

# ATR-1E

## IMPACT/RESCUE HELMET

VERSION FOR THE US MARKET

Multipurpose technical rescue, urban search & rescue helmet for wildland firefighting, high angle & water rescue. One helmet platform for a wide range of use. Its modularity and task specific adaptability make this helmet a top choice for fire and emergency services – no matter what scenario they are confronted with.

### CAP-2

FUNCTIONAL LOOP VELCRO® FOR ACCESSORIZING HELMET COVERS, STROBES, & ID EMBLEMS

### NVG-1

INTEGRATED LIGHTWEIGHT ACCESSORY SHROUD, CAPABLE OF SUPPORTING CAMERAS, LIGHTS, & STROBES

### SCS-1

SPEED-CONNECT-SYSTEM (SCS) ALLOWING RAPID, EASY-ATTACH VISOR OPTIONS

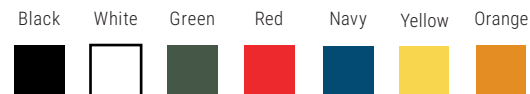
### CRS-2

MULTI-POINT ADJUSTMENTS, LOCKING HELMET SECURELY TO OPERATOR WITH FAST RELEASE BUCKLE

### CPP-1

OUR CPP-1 PADDING ENSURES A HIGH WEARING COMFORT EVEN DURING LONG MISSIONS. A LOW OVERALL WEIGHT (MAX. 750 G) OF THE HELMET SUPPORTS THIS

### COLORS



**CMR-1 SHORT CUT RAIL**  
MULTI-FUNCTIONAL VISOR MOUNT ALLOWING MODULAR ACCESSORIES INCLUDING, VISORS & GOGGLE SYSTEMS



Optional ESS Goggle Mounts with quick release system.



Fullcut 3mm Light Impact Visor with Liquid Barrier



Visor SCS System allowing for quick donning of visors & accessories.



Shortcut 3mm Light Impact Visor with Liquid Barrier

### SPECIFICATIONS:

**CONSTRUCTION:** SMC -fibre reinforced duroplast

**STYLE:** High-cut

**COATING:** 2K - paint / colored thru

**EDGE PROTECTION:** red, white, zinc yellow, luminous orange, blue, black, luminous yellow, pure orange

**SHOCK ABSORPTION:** CPP-1 E+ pad system with increased bulk density in crown pads

**HARNES:** CRS-2 harness system

**SIZE:** H1 = 48 to 56cm (18.9-22 in.), H2 = 52 to 62cm (20.5 -24.4in.), H3 = 60 to 66cm (23.6-26in.)

**INTERFACES:** Standard configuration is Size H2

**CERTIFICATION:** Multiple Certifications Pending



# ATR-1TP

## IMPACT/RESCUE HELMET

VERSION FOR THE EUROPEAN MARKET

### PROTECTION

THE THERMOSET HELMET SHELL MATERIAL PROVIDES MUCH HIGHER PROTECTION AGAINST PENETRATION THAN HELMETS MADE OF THERMO-PLASTIC HELMET SHELL MATERIAL

### NVG-1

INTEGRATED LIGHTWEIGHT ACCESSORY SHROUD, CAPABLE OF SUPPORTING CAMERAS, LIGHTS, & STROBES

### SCS-1

SPEED-CONNECT-SYSTEM (SCS) ALLOWING RAPID, EASY-ATTACH VISOR OPTIONS

### CRS-2

MULTI-POINT ADJUSTMENTS, LOCKING HELMET SECURELY TO OPERATOR

### CPP-1

OUR CPP-1 PADDING ENSURES A HIGH WEARING COMFORT EVEN DURING LONG MISSIONS. A LOW OVERALL WEIGHT (MAX. 750 G) OF THE HELMET SUPPORTS THIS

### UNPARALLELED FIT

THE USE OF THREE (3) HELMET SHELL SIZES CAN ENSURE AN OPTIMAL SIZE FIT FROM SIZE 48 TO 66. FAR BETTER THAN A ONE-SIZE FITS ALL HELMET

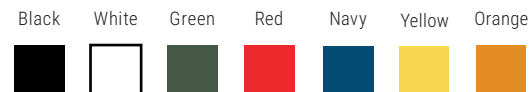
### CMR-1

BY USING THE RAIL (CMR-1) AND THE INTEGRATED NVG MOUNT (NVG-1), A WIDE RANGE OF ACCESSORIES CAN BE ATTACHED TO THE HELMET. THIS ALLOWS THE HELMET TO BE ADAPTED TO A RANGE OF OPERATIONAL SCENARIOS

### VISIBILITY

REFLECTIVE STRIPES ARE STANDARD AND ENSURE THAT THE WEARER IS VISIBLE ALL AROUND (360°) THE REFLECTIVE STRIPES ARE MADE OF THE LATEST GENERATION OF MATERIALS

### COLORS



3M™ Reflective Stickers optional add-ons



| SHELL SIZE | WEIGHT IN LBS & GRAMS |      |
|------------|-----------------------|------|
| H1         | 1.433lbs              | 650g |
| H2         | 1.587lbs              | 720g |
| H3         | 1.837lbs              | 850g |

\*including harness, suspension, rail system and reflective stickers



CGC-1 Protective Cover for Safety Goggles



TAG-1 Accessory Bag for ATR-1

# VISORS & ACCESSORIES



# VISORS & ACCESSORIES

## IMPACT TO BALLISTIC

Constructed of an ultra-high quality silica/polycarbonate proprietary mixture, our visors offer protection levels from lightweight impact, Fragmentation, 9mm & .44mag IIIA, and VPAM 3. Coupled with our Speed Connect System (SCS), which allows the user of a Busch Helmet to instantly connect a visor, in the field, without any tools or having to remove the helmet in the moment.

## VISOR TYPES

SHORT CUT

STANDARD CUT

MANDIBLE CUT

MED X CUT

WAVE CUT

WAVE CUT PP



## GALLERY



Impact CAV-1PC

Impact ATR-1E SC with Liquid Barrier







# VISOR SPECIFICATIONS

| VISOR MODEL  | SHAPE CUT    | TEST TYPE                | PROJECTILE DETAILS/VELOCITIES                                       | THICKNESS IN MM | LENGTH MM | LENGTH INCHES | WEIGHT GRAMS | WEIGHT POUNDS |  |
|--|--------------|--------------------------|---|-----------------|-----------|---------------|--------------|---------------|--|
| <b>CAV-PC</b>  |              |                          |   |                 |           |               |              |               |  |
| CAV-1E   | Standard     | Blunt Impact             | Drop Tested to 100 Joules, EN397 Blunt Impact                       | 3               | 165       | 6.2           | 275          | .612          |  |
| CAV-1PC  | Standard     | Blunt Impact             | ANSI/ISEA Z87.1-2015 except 5.1.4, Drop tested to 100 joules, EN397 | 6               | 165       | 6.2           | 460          | 1.00          |  |
|  | Short        | Blunt Impact             | ANSI/ISEA Z87.1-2015 except 5.1.4, Drop tested to 100 joules, EN397 | 6               | 90        | 3.5           | 310          | 0.70          |  |
| Liquid seal rubber barrier can be added to CAV-1E, CAV-1PC & BAV-1FS family only |              |                          |   |                 |           |               |              | 20            |  |
| <b>BAV-FS</b>  |              |                          |   |                 |           |               |              |               |  |
| BAV-1FS  | Standard     | Fragmentation            | STANAG 2920 17grain, V50: 300m (985 ft)/sec                         | 7               | 165       | 6.2           | 510          | 1.10          |  |
|  | Medium       | Fragmentation            | STANAG 2920 17grain, V50: 300m (985 ft)/sec                         | 7               | 110       | 4.3           | 480          | 1.00          |  |
|  | Short        | Fragmentation            | STANAG 2920 17grain, V50: 300m (985 ft)/sec                         | 7               | 90        | 3.5           | 366          | 0.80          |  |
|  | Wave         | Fragmentation            | STANAG 2920 17grain, V50: 300m (985 ft)/sec                         | 7               | 150/130   | 5.9/5.1       | 490          | 1.08          |  |
|  | Mandible Cut | Fragmentation            | STANAG 2920 17grain, V50: 300m (985 ft)/sec                         | 7               | 120/85    | 4.7/3.35      | 490          | 1.08          |  |
| Liquid seal rubber barrier can be added to CAV-1PC and BAV-1FS family only       |              |                          |   |                 |           |               |              | 20            |  |
| <b>BAV-1E</b>  |              |                          |   |                 |           |               |              |               |  |
| BAV-1E   | Medium X Cut | 9mm                      | NIJ 9mm 124gr (9x19 DM41) V50: 415m (1362 ft)/sec                   | 17              | 130       | 5             | 850          | 1.87          |  |
|  | Mandible Cut | 9mm                      | NIJ 9mm 124gr (9x19 DM41) V50: 415m (1362 ft)/sec                   | 17              | 130       | 5             | 850          | 1.87          |  |
| <b>BAV-CN</b>  |              |                          |   |                 |           |               |              |               |  |
| BAV-1CN  | Standard     | 9mm & .44 Mag (NIJ IIIA) | NIJ 3A 9mm/44Mag & STANAG 2920 17gr, V50 300m (985ft)/sec           | 22              | 165       | 6.2           | 1450         | 3.20          |  |
|  | Short        | 9mm & .44 Mag (NIJ IIIA) | NIJ 3A 9mm/44Mag & STANAG 2920 17gr, V50 300m (985ft)/sec           | 22              | 90        | 3.5           | 860          | 1.80          |  |
|  | Wave         | 9mm & .44 Mag (NIJ IIIA) | NIJ 3A 9mm/44Mag & STANAG 2920 17gr, V50 300m (985ft)/sec           | 22              | 150/135   | 5.9/5.1       | 1290         | 2.70          |  |
|  | Mandible Cut | 9mm & .44 Mag (NIJ IIIA) | NIJ 3A 9mm/44Mag & STANAG 2920 17gr, V50 300m (985ft)/sec           | 22              | 120/85    | 4.7/3.35      | 1200         | 2.65          |  |
| <b>BAV-TP</b>  |              |                          |   |                 |           |               |              |               |  |
| BAV-1TP  | Standard     | VPAM 3 / TR.1            | VPAM/TR-3.1/Tokarev/STANAG 2920 17gr, V50 720m (2365ft)/sec         | 20              | 165       | 6.2           | 1370         | 3.00          |  |
|  | Short        | VPAM 3 / TR.2            | VPAM/TR-3.1/Tokarev/STANAG 2920 17gr, V50 720m (2365ft)/sec         | 20              | 90        | 3.5           | 840          | 1.80          |  |
|  | Wave         | VPAM 3 / TR.3            | VPAM/TR-3.1/Tokarev/STANAG 2920 17gr, V50 720m (2365ft)/sec         | 20              | 150/130   | 5.9/5.1       | 1236         | 2.70          |  |
|  | PP Cut       | VPAM 3 / TR.4            | VPAM/TR-3.1/Tokarev/STANAG 2920 17gr, V50 720m (2365ft)/sec         | 20              | 135/100   | 5.5/3.9       | 955          | 2.1           |  |
| <b>Covers</b>  |              |                          |   |                 |           |               |              |               |  |
| TVC-2  | Standard     | Neoprene                 | Protects Busch Visors against scratches & dings while not in use    | 4               | 180       | 6.75          | 130.00       | 0.30          |  |
| TVC-2  | Short        | Neoprene                 | Protects Busch Visors against scratches & dings while not in use    | 4               | 100       | 3.8           | 100.00       | 0.22          |  |



Fullcut      Mandible Cut      Wavecut      Wave PP cut

# BAM-1

BALLISTIC MANDIBLE



## SPECIFICATIONS:

**MATERIAL:** Aramid Fiber

**COATING:** Textile Finish

**EDGE PROTECTION:** EPDM Rubber edging

**CONNECTION SYSTEM:** Metal hooks and clip to CMR-1 Side Rails

**WEIGHT:** 280 g - 0.62lbs

## COLORS

Black Green Multicam®



*Works with fullcut, midcut and highcut Busch Helmets*

## STANDARDS / CERTIFICATION:

The following Standards can only be fulfilled in conjunction with all AMP-1 E or TP helmets.

Penetration resistancy against 9mm DM41 with 415 ±10 m/s - 1362 ±33 fps & STANAG 2920 17 grain Frag, V50: 300M (985 ft)/sec'

## SPECIAL PROPERTIES / ACCESSORIES:

Installation within seconds on all AMP-1 TP and AMP-1 E also fits in conjunction with SCS Visors and BAN-1 Neckguard.

Can be tilted up when used with drinking bottle.

Textile Coating for more protection when used with rifles.

# BAP-1 AK

RETROFITTABLE FRONT PLATE



## SPECIFICATIONS:

**MATERIAL:** UHMW-PE

**COATING:** Extremely durable PU coating

**CONNECTION SYSTEM:** Velcro hook and loop connection

**WEIGHT:** 525 g - 1.16 lbs

**SURFACE AREA:** 446 cm<sup>2</sup> - 0.48 sqf

## STANDARDS / CERTIFICATION:

VPAM- HVN 2009, level 6\* Energy Transfer < 45 Joule

## COLORS

Black Green



## CAC-1 HELMET COVER



### SPECIFICATIONS:

**MATERIAL:** Polyamid, Mesh, velcro

**STYLE:** Closed, with NVG outcut

**CONNECTING SYSTEM:** With velcro attachment to the helmet surface (CAP-1 or CAP-2), With velcro for own badges or unit flags

### COLORS

Black Green Multicam®



## CAP-1 VELCRO® KIT



### SPECIFICATIONS:

**MATERIAL:** Velcro



### COLORS

Black Green



## CAC-2 HELMET COVER



### SPECIFICATIONS:

**MATERIAL:** Polyamid, Mesh, velcro

**STYLE:** Can be used with or without NVG

**CONNECTING SYSTEM:** With velcro attachment to the helmet surface (CAP-1 or CAP-2), With velcro for own badges or unit flags



### COLORS

Black Green Multicam®



## CAP-2 VELCRO® KIT



### SPECIFICATIONS:

**MATERIAL:** Velcro



### COLORS

Black Green



## CRS-2 HARNESS



### SPECIFICATIONS:

**MATERIAL:** Polyamid, Aluminium, Leather, Nomex (on demand)

**SIZES:** M/L, L/XL

**STYLE:** Closed

**FASTENING:** Plastic Buckle

**CERTIFICATIONS:** EN 397, 5.1.4 "emergency opening" (not as standard)

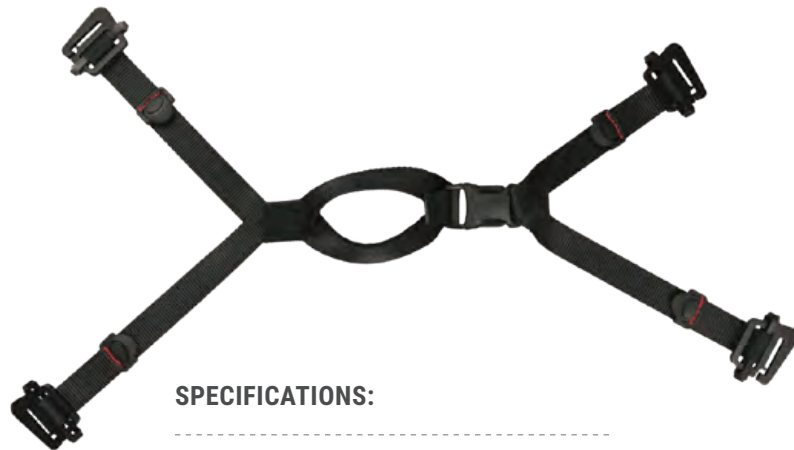
*Also available for left-handed shooters*

### COLORS

Black Green



## CRS-2 SV HARNESS



### SPECIFICATIONS:

**MATERIAL:** Polyamid, Aluminium, Leather Nomex (on demand)

**SIZES:** unisize

**STYLE:** Open-Loop

**FASTENING:** Plastic Buckle

**CERTIFICATIONS:** EN 397, 5.1.4 "emergency opening" (not as standard)

### CHE-1 EXTENDER



*4" Chin Strap Extender for Gas Mask Use*

### COLORS

Black Green



## CPP-1 PAD SYSTEM



### SPECIFICATIONS:

**MATERIAL:** EPP, Foam, viscoelastic Foam, Synthetic Leather

**CONNECTING SYSTEM:** With velcro attachment to the helmet surface

*Standard default comfort pad system used in all helmets, providing long lasting use & ease of maintenance*

### COLORS

Gray



## CPP-2 PAD SYSTEM



### SPECIFICATIONS:

**MATERIAL:** EPP, Foam, porous Foam, mesh fabric

**CONNECTING SYSTEM:** With velcro attachment to the helmet surface

*Optional upgraded multi-layer padding system, designed to provide maximum stability and long lasting comfort, especially when using NODs and heavier helmet accessories.*

*Available in Thin, Standard & Fat (2mm, 4mm, 6mm)*

### COLORS

Black / Blue Combo



## CAW-1 / CAW-2 COUNTERWEIGHT & BATTERY PACK



CAW-1 (shown)



CAW-2 (shown) works with CAC-2 Helmet Cover. Attached and removed via Velcro & Bungees.

### SPECIFICATIONS:

**MATERIAL:** Polyamid, Velcro

**Variants:** 5x90gr / 7x50gr

**CONNECTING SYSTEM:** Velcro to helmet cover, belt to rail

**TO USE WITH:** CAC-1, CAC-2

### COLORS

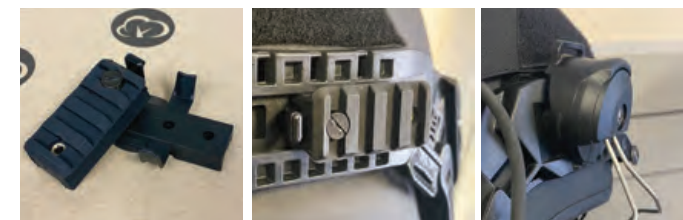
Black Green Multicam®



## COM-1

### COMMUNICATION ADAPTERS

Adapters designed to enable most industry leading Ear Protection brands/models to seamlessly integrate into the Busch rail system including Peltor®, TCI Liberator®, Invisio®, Otto®, etc.



Picatinny Rail Adapters (Set of 2), allow for accessories to be mounted on CRM-1 Rails.

Easy EarPro mounting



# CONTACT



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## Global Manufacturing & Supply Chain

With decades of expertise in ballistic helmet protection systems, the Busch PROtective Group utilizes a global footprint to ensure the most cutting-edge production process are put to work for you.

Experience has taught us to align our design, production, and quality control facilities with strategic supply-chain partners to ensure consistent production, timely deliveries, and top-of-the-line, innovative, purpose built solutions.

The information contained in this catalog is to be used only as a guide to assist with product selection. Busch PROtective makes no representation or warranty as to the completeness or accuracy of the information contained herein. The products and specifications set forth in this catalog are subject to change without notice and Busch PROtective disclaims any and all liability for such changes. The information contained herein is provided without warranties of any kind, either expressed or implied, and Busch PROtective disclaims any and all liability for typographical, printing, or production errors or changes affecting the products and/or the specifications contained herein.

Producing life-saving personal protective Equipment is a responsibility that we do not take lightly. Hence, our commitment to excellence led us to achieve ISO Certification in 2016. We are **ISO 9001: 2015 Certified** and constantly employ only the most stringent testing, compliance, and quality control standards throughout our entire manufacturing process.

It is the responsibility of the customer to thoroughly analyze all aspects of the customers' proposed application for the products. Due to the diversity of possible applications of Busch PROtective's products, the customer is solely responsible for making the final selection of the product(s) to be used and to assure that all performance, safety and warning requirements of the application are satisfied.



# PROTECT WHAT MATTERS

