

User Manual



AMP-1X

AMP -1 X

are missed.

The helmet system AMP-1 X is certified according to DEA / FBI ballistic Standard equipment helmet testing protocol dated 2019 / 2024.

Important Information

object, hammer, spade, stool or football, can affect the properties of the The helmets standard weight is: helmet and in consequences reduce AMP-1 X MC 1.550 g - 3.4 lbs

the level of intended protection.

- Mid-Cut (MC) and High-Cut (HC) - are designed to offer optimal pro- The optional accessories for the Ballistic helmets make up part of the tection and should not be modified or AMP-1 X helmet series include: personal protective equipment and equipped with foreign components. and mitigate serious head trauma. to the helmet shell and/or original night vision devices or cameras fully so no relevant safety aspects capabilities of the helmet and render it unfit for use and further negate the warranty.

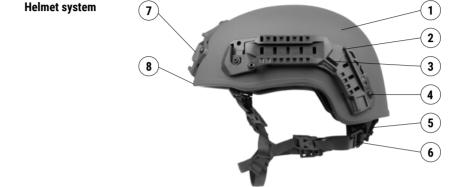
The AMP-1 TP X MC and AMP-1 X HC standard setup consists of the helmet's ballistic shell, hard form pad • Non-ballistic visors - CAV-1 series system EPP, a comfort pad system CPP, a harness strap (retention tection classes This helmet should only be system), combined with a wheel-dial • Battery pouches/Counterweights used for the purpose intended, which (retention system), a rail system - CAW-2 is to provide head protection. Inappro- CMR-1, as well as hook and loop • Laser protection system - MEP-1 priate use of the helmet such as (but fasteners that anchor the retennot limited to) a use as a throwing tion and rail system to the helmet. Other accessories are available on

AMP-1 X HC 1.480 a - 3.2 lbs

- are designed to prevent head injuries Additional drilling or any changes · NVG interface for attachment of
- Please read these instructions care- accessories may affect the protective Velcro loop patches CAP-2 for attaching the helmet cover or indivi dual/unit insignia
 - Helmet covers CAC-1 and CAC-2 series - available in different colors and patterns.
 - Ballistic visors BAV-1 series available in different cuts & protection
 - available in different cuts & pro-

request.

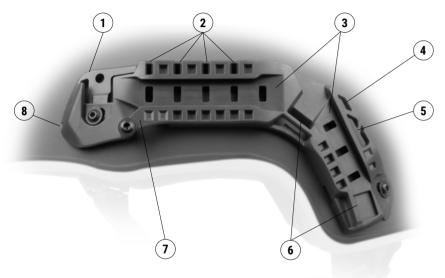






- 1. Ballistic shell
- 2. Rail system
- **3.** Attachment points for mandible / gas mask (rail-clips as option)
- 4. Attachment screws
- **5.** Wheel-dial (retention system)
- **6.** Harness (retention system)
- **7.** NVG interface (optional)
- **8.** Rubber edge
- **9.** Hard foam EPP pads (12 mm)
- **10.** Crown hard foam EPP pads (18 mm)
- 11. CPP-2 front comfort pad
- **12.** CPP-2 crown comfort pad
- 13. CPP-2 rear comfort pad
- **14.** CPP-2 wheel-dial comfort pad

CMR-1 rail system



- 1. Speed-Connect-System socket for fast and toolless attachment of visors (face-shield)
- 2. Attachment points/gaps for shock-cord (bungees)
- 3. Multifunctional rail
- 4. Attachment points/gaps for shock-cord (bungees) for the rear end
- 5. Open attachment point for accessories, e.g. counterweights, tactical goggles (sold separately)
- 6. Attachment points for mandible / gas mask (rail-clips as option)
- 7. Modular attachment point for protective accessories (sold separately)
- 8. Groove for NVG stability shockcord (bungee)

Retention and suspension system

of the retention and suspension sys-required, the height can be adjusted. is available. tem. These are: (1) webbing harness strap (retention system), (2) adjust The AMP-1 X has an innovative pad- Size adjustment

Size and height adjustment

EPP pads (suspension system)

helmet's inside is equipped with 12 pad with numbers 12 or 18. mm hard foam pads in front, back and on sides and with 18 mm hard The AMP-1 X helmet can also be indi- be changed. By moving pads (EPP foam pads in the crown.

fulfils the DIN EN 397 impact stan-located underneath the comfort raised slightly higher, it presents dards, therefore it is imperative that pads with the 18 mm equivalent, more space to accommodate the

table wheel-dial (retention system) ding system which allows for height and (3) six double hard foam pads adjustment within the helmet. In the CPP pads (suspension system) and (4) comfort protection pads standard setting, the padding system and replace them with a 12 mm hard foam pads. The thickness of the hard **Points to note:** In its standard setup the AMP-1 X foam pads (EPP) is marked on each

vidually adjusted on both sides. This and CPP) higher, it makes it more can be done by removing the comfort comfortable to wear a helmet with pads (CPP), and then by exchanging peripheries such as respirators/gas With this setup, the AMP-1 X the 12 mm hard foam pads (EPP) masks. Additionally, when pads are

the 18mm pad in the crown (EPP) is For head sizes below <52 cm the rubber seal of the respirator. This in place within the helmet! If the EN option of doubling or adding up hard will ensure it is sealed correctly and The interior of the AMP-1 X consists 397 blunt impact protection is not foam pads (EPP in 12 mm or 18 mm) doesn't have impact on the helmet

(CPP) (suspension system), which in the crown of the helmet consists The comfort pads CPP-2 come in collectively make for a comfortable of 2 hard foam pads (18 mm EPP) thin, medium and fat version for and secure fit. These 4 system and a comfort pad (CPP), mounted individual preference & comfort. By components can be individually centrally, and enables the user to swapping the CPP-2 comfort pads adapted to the needs of the user. adjust the height by changing the (accessory) the comfort of wearing hard foam pad (EPP). For height ad- can by increased, depending on indijustment remove the two hard foam vidual needs. The comfort pads CPP-1 pads hidden below comfort pads come in one size thickness only.

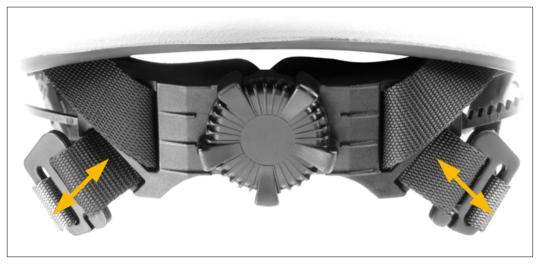
To further improve the comfort, the position of the pads can also

Wheel-dial (retention system)

The circular wheel-dial knob located By rotating the wheel-dial and enat the back of the helmet enables the suring the helmet is tightly placed user to further finely adjust the AMP- around the head, the helmet will pro-1 X helmet size. This feature, located vide for a firm fit and in consequence at the back of the helmet towards minimize tilting of the helmet when the neck region, can be rotated using using accessories such as visors or the finger and thumb. By rotating NVGs. the knob clockwise, the circumference of the retention system of the helmet is decreased; by rotating it anti-clockwise the circumference of the retention system of the helmet is increased.

The wheel-dial of the AMP - 1 X provides for a firm and secure fit. To further improve comfort the wheeldial housing seated around the neck/back of head, can be raised or lowered depending on individual preference. Two straps situated on either side of the wheel-dial housing can be slid up or down, which enable the wheel-dial housing to be seated either lower or higher at the back of the neck.

Points to note:



Harness (retention system)

comfort of wearing and stability.

The harness of the AMP-1 X has the buckles can be closed. 4 adjustment points which help to centralize the forces and balance the

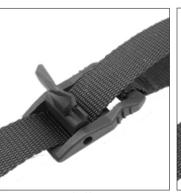
helmet. The harness chin strap, when **Points to note:** ideally fitted, should be adjusted so By adjusting harness in the correct that the chin-cup is centrally placed The CRS-2 harness system can If you need to remove the entire retenmanner the stability of the helmet on the chin, with all four points of be detached from the helmet shell tion system for the purpose of deconwill be further improved. The harness attachment being taught and firm, without the use of any tools. In order tamination or refurbishment, make straps are strategically located to but equally comfortable. To easily to detach the harness for exchange sure you follow the steps below. minimize tilting of the helmet (for-adjust the harness chin straps, the or cleaning purposes, please unhook wards/ backwards) and to optimize four cam buckles can be opened and the harness. Make sure when attacan be slid up or down. After adjus- ching the harness that all four hooks ting the chin straps the fitting length with the openings are facing the rear can reduce the holding force between

wheel-dial.

To replace the retention system:

Frequent removal of this type the retention system and the helmet shell. In this case, it may be advisable to replace the retention system.

- 1. carefully remove the four Velcro fasteners of the retention system from the helmet shell and ensure that the glued Velcro hooks are not pulled off the helmet shell.
- **2.** ensure that the retention system is correctly aligned during installation. The hook and loop connections each have the same outer contours and must completely overlan.
- 3. jiggle the four Velcro connections firmly with a little pressure.











facing wheel-dial

To replace the damaged rail:

- 1. Loosen the screws with a suitable tool and remove the damaged
- 2. To fit the new rail, place the rail on the side of the helmet so that the rail is flush with the helmet surface and the threaded inserts of the shell are visible through the 2. To mount the new NVG shroud. slots in the rail.
- 3. Use medium-strength threadlocker to increase the strength of the screw connection
- 4. For the front: Use the M5x8 screw (item no. 70000812) and **3.** Take the M5x6 screws (item no.: the PTFE spacer D-2.0 mm (item no. 80000530). The spacer must be fitted between the rail and the helmet. Make sure that the rail 4. Use medium-strength threadlocker Cleaning and Care sits flush and then tighten the screw lightly.
- (item no.: 70000811) with the PTFE spacer washer D-1.0 mm (item no. 80000529). The spacer must be fitted between the rail

and the helmet. Make sure that Points to note: the rail sits flush and then tighten the screw lightly.

5. Finally tighten all screws to 3 5 Nm

To replace the damanged NVG:

- 1. Loosen the screws with a suitable Use without NVG or rail tool and remove the damaged NVG shroud
- front helmet surface so that the threaded inserts of the shell are visible through the holes of the shroud
- 70000811) and tighten all 3 shroud is flush with the helmet.
- to increase the strength of the screw connection
- **5.** For the rear: Use the M5x6 screw **5.** Finally tighten all screws to 3.5 Nm.

are not loose.

- 1. Loosen all screws with a suitable tool and remove rails and shroud
- place the shroud flush on the 2. Use the M5x6 screws (item no.: D-1.0 mm (item no. 80000529) for all threaded inserts
 - 3. Use medium-strength threadlocker screw connection.

The removable comfort pads (CPP)

can be washed in a commercial washing machine in a wash bag at 40°C If you want to use the helmet without (104°F), without a spin wash. The rails and NVG shroud (for example to interior of the helmet can be treated reduce weight), make sure that the with disinfectant spray (e.g. Heliothreaded inserts in the helmet shell sept Medical Spray). After washing, the items should be carefully re-shaped and left to dry naturally so they can resume their original shape.

Please do not wipe the helmet down with any solvents or 70000811) and the PTFE spacer thinners or other similar materials.

Storage and Transport

to increase the strength of the The helmet should be kept in a dry and sheltered place. The storage screws lightly. Make sure that the 4. Finally tighten all screws to 3.5 Nm. temperature should be 20°C ± 15°C (68±59°F) and should not exceed or fall below these recommendations During storage the helmets should The helmet shell, removable comfort be placed out of range of direct pads (CPP) and the retention system sunlight avoiding any prolonged UV (wheel-dial and harness strap web- exposure. While in use the maximum bing) can be cleaned with lukewarm temperatures of the helmet should water and a mild soap detergent. not exceed-51°C to 60°C (-60°F to 140°F).

Optimally the helmets are best sto- Replacement of damaged red in the helmet's bags supplied.

sive substances such as solvents NVG-interface or harness there is no adhesive rectangular patches) and fuels.

If the helmet is stored and packed Spare Parts List with original packaging (cardboard container box) to prevent damage, it CRS-2 harness system with inner can be easily transported.

Maintenance checks

should be carried out on the shell exchange) (interior and exterior), and all accessories. If the helmet is exposed to CPP-2 comfort pads (thin, medium an excessive force or other trauma, and fat version available) (includes such as being struck by a very heavy four comfort pads for a complete object the helmet should not be exchange) worn. A damaged helmet should not be used.

If in doubt, please contact the company complete exchange) Busch PROtective Germany GmbH & Co. KG through your local agent.

accessories

For replacement of damaged equip-Do not store near aggres- ment, such as rail system, the CAP-1 Velcro patches (includes six requirement for any special tools.

ring and wheel-dial, (EPP pads and CPP pads are not included)

CPP-1 comfort pads (includes six maintenance checks comfort pads (CPP-1) for a complete

Spare EPP impact management pads (includes six EPP pads for a

NVG interface, includes torx head screws

CMR-1 rail system, includes torx head screws. Rail accessory attachment clips are optional.

CAP-2 Velcro patches (Includes ten adhesive patches)

TSB-1 and TPB-1 transport bag

CAC-1 helmet cover. (includes CAP-1 Velcro patch attachment points) CAC-2 Helmet cover.

CAH-2 helmet holder

CPA-1 communication headset apapters, compatible with Peltor®, Comtac®, and other similar models

Should you require any spares/ accessories, please contact us.

Contact:

US

Busch PROtective USA, LLC 26895 Aliso Creek Road, B-604 Aliso Vieio. CA 92656 (949) 409-6007 inquiries@buschprousa.com

Telephone: +1 (714) 706-9344 www.busch-protective.com



US

Busch PROtective USA, LLC 26895 Aliso Creek Road, B-604 Aliso Viejo, CA 92656 (949) 409-6007 inquiries@buschprousa.com

www.busch-protective.com