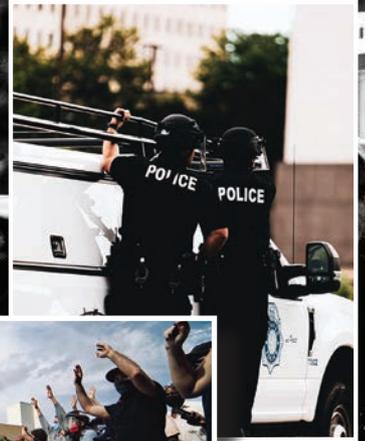


P&SN

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Serving Law Enforcement & Homeland Security



PREVENTING CIVIL UNREST



FOCUS ON TECHNOLOGY

SWAT/Tactical Equipment



Upgraded Bipod from Accu-Shot

Since the Atlas Bipod® was first introduced in 2005, a no-pan model with the same quality, the same patented five leg positions, optional feet, as well as other sought-after features had been requested. The Atlas CAL (Cant and Loc) answered this need and was upgraded with more Cant and ergonomic buttons. At 50% larger, the **Super CAL (SCAL)** satisfies those requesting a larger Cant and Loc with these same benefits; it's a solid contender for anyone considering a non-panning bipod.

accu-shot.com



New Carrier from Armor Express

Built on the SPEAR BALCS ballistic cut, the **Lighthawk XT 3.0** tactical carrier provides ample coverage while maintaining a more aggressive architecture. Its enhanced technology includes Armor Express' Vent System with 3-D foam spacing for airflow; upgraded Advanced Shoulder Pads which aid in weight disbursement and overall comfort; and an interchangeable cummerbund with quick release options, making this a superior solution in the tactical entry world.

armorexpress.com

New Ballistic Mandible

The **Busch PROtective BAM-1 Ballistic Mandible**, from Armor Express, can be installed within seconds in conjunction with all AMP-1 E or TP ballistic helmets only. It is designed with penetration resistance against the 9mm DM41 with 415 ± 10 m/s – 1362 ± 33 fps. The **BAM-1** can also be integrated with Busch's Speed Connect System (SCS) Visors and BAN-1 Neck Guard. It can be tilted up if the wearer needs to use a drinking bottle. The textile coating also provides greater protection when used with rifles. Made of Aramid fiber, it weighs .62 pounds and is available in black and green.



armorexpress.com



New Monocular from Pulsar

Designed for surveillance, search and rescue, fugitive recovery, and evidence collection, the **Pulsar Lexion Thermal Monocular** is available in five models with 384x288 or 640x480 resolution sensors. **Lexion** features include glove-friendly button and focus controls; integrated Wi-Fi and video; an AMOLED display; an eight hour rechargeable battery; heat signature detection range up to 2,000 yards, day or night; and rugged, waterproof reliability.

pulsarnv.com



Communication Systems

INVISIO® communication systems can be tailored to fit any critical operation or scenario. Their modularity is based on the patented **INVISIO IntelliCable**®, a unique identification which enables all equipment to be interchangeable across current and future **INVISIO** systems. The IntelliCable provides automatic detection of hot-swap devices such as radios, intercom systems, mobile phones, computers, and remote PTTs to set the audio and system parameters instantaneously.

The **INVISIO** system is also very scalable. A solution fitted for an individual can easily be scaled and adapted to a specific unit or to an entire agency.

invisio.com



New Ballistic Mandible

The **EXFIL® Ballistic Mandible**, from Team Wendy, attaches tool-free to the EXFIL Ballistic and EXFIL Ballistic SL helmets fitted with either the EXFIL Rail 2.0 or EXFIL Rail 3.0 accessory mounting systems. The **mandible** is designed to allow the operator to establish a cheek weld with his/her weapon and, when paired with the EXFIL Ballistic Visor, shields the face and ears from fragmentation and blunt impact. Its ballistic coverage area is 72.03 square inches; it weighs 1.30 pounds; comes standard with two interchangeable nose pieces: a ballistic nose with a CORDURA® and nylon/spandex cover and a non-ballistic, all-terrain nose with vents to allow additional airflow; comes in two sizes, size one and size two, corresponding to the operator's EXFIL Ballistic or EXFIL Ballistic SL helmet size; and is offered in four colors.

teamwendy.com



ASPIS X Gen II Shield

Lightweight at only 17.9 pounds, the **ASPIS X Gen II Shield**, from Point Blank, provides superior maneuverability for handgun and long gun deployment. Available in Level III protection, the **ASPIS X Gen II** delivers high performance protection and optimal functionality. Other features include a Polyurea coating for enhanced durability and longevity; a unique hook and loop forearm strap attachment system; and the option of with or without a viewport.

pointblankenterprises.com



New XD-M® Elite

The new **XD-M Elite**, from Springfield Armory®, represents the pinnacle of performance in factory striker-fired pistols. At the heart of the new **XD-M Elite** is the Match Enhanced Trigger Assembly (META™) system, a refined trigger which features a flat face and integral overtravel stop.

The **XD-M Elite** also features increased capacity magazines holding up to 22 rounds of 9mm. These magazines mate up with removable extended and flared magwells, designed for ultrafast reloads.

The new **XD-M Elite** family of pistols include four models, ranging from competition-ready and tactical variants to duty-sized and CCW-ready versions.

The **XD-M Elite** Tactical OSP™ sports a hammer forged 5.34" threaded barrel with thread protector, a slide capable of mounting today's top red dot optics and suppressor height iron sights.

springfield-armory.com



TLR-1 HL® Dual Remote Switch Kit

Streamlight, Inc. has launched the **TLR-1 HL Dual Remote Kit**. The new kit, with included TLR-1 HL light, allows for the individual or simultaneous activation of the light and an external aiming device. With direct mounting to all MIL-STD-1913 (Picatinny) rails, the Dual Remote Pressure Switch permits momentary or constant activation. The company also introduced the TLR® Dual Remote Switch Accessory for use with the Streamlight TLR-1 and TLR-2® series lights and an accompanying external aiming device.

The new **TLR-1 HL Kit** includes the TLR-1 HL weapon light with Safe Off Tail Switch, lithium batteries, a Dual Remote Pressure Switch, and mounting clips. The TLR Dual Remote Switch Accessory includes a Dual Remote Pressure Switch for use with TLR-1 or TLR-2 series lights (sold separately) and mounting clips.

streamlight.com

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Photo by @m4_an4kin

Ballistic Armor Update: 2020

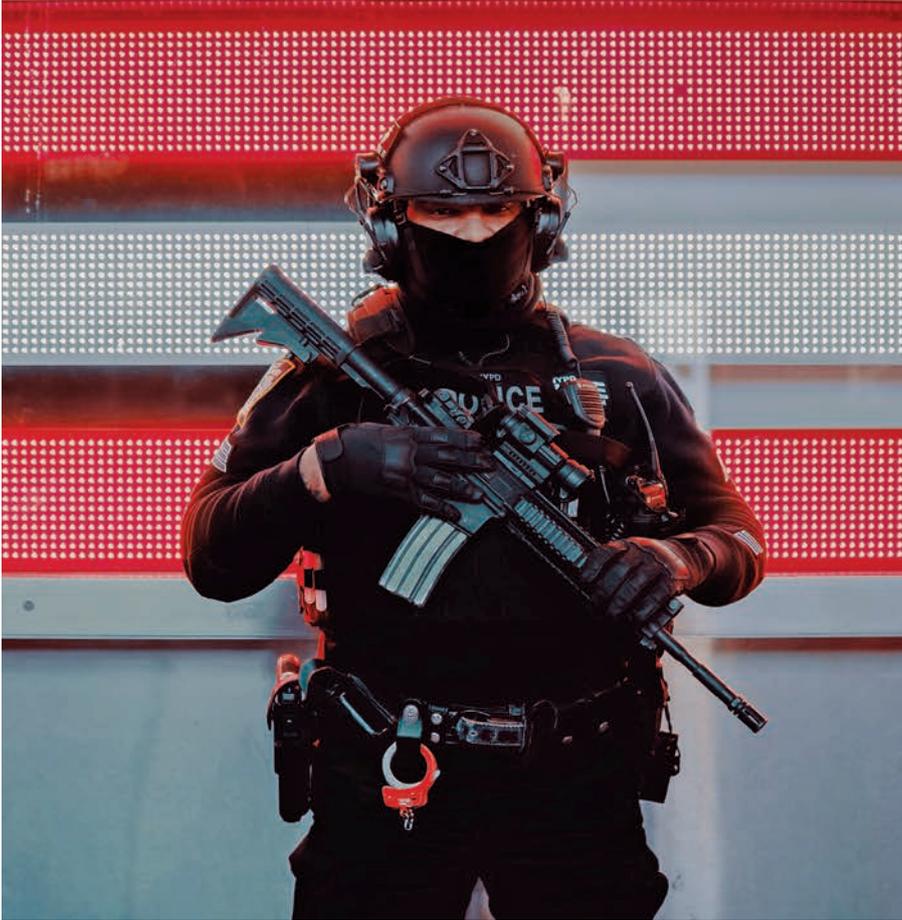


Photo by Alec Favale

the risk of blunt force trauma with greater absorption of energy from bullets. Subsequently, in late January of this year, an announcement was made regarding the introduction of Spectra Shield 6166 which is Honeywell's highest performing ballistic material for rifle protection in hard body armor designs. Pound for pound, Spectra is 15 times stronger than steel, yet light enough to float.

Help for the Ladies

In September 2019, women from the Department of Homeland Security (DHS) Science and Technology Directorate's (S&T) National Urban Security Technology Laboratory (NUSTL) embarked on a project to assess the capability, usability, deployability, maintainability, and affordability of various makes and models of female body armor. NUSTL's System Assessment and Validation for Emergency Responders (SAVER) program convened a focus group of female first responders from several states to obtain their recommendations for evaluation criteria, product selection and operational scenarios. Because the responders use ballistic-resistant body armor in daily operations, their input was critical to ensure that the right models are tested and that they are assessed in true to life environments. All of their initial input is available now in NUSTL's recently published focus group report which will serve as the basis for evaluating several PPE models during an upcoming assessment. A copy of the focus group report can be downloaded at <https://tinyurl.com/yad8elcz>.

Existing body armor which female officers wear in the field tends to either be gender-neutral, (meaning it can be worn by any officer), or it has a three-dimensional structure (using folds, darts or seams to create cup shapes) intended to curve and fit around the bustline. Focus group participants noted that, in their experience, these designs do not conform well to their body contours. For NUSTL, providing an opportunity for female responders to assess several currently available body armor options will ultimately allow response agencies to purchase the right PPE for their officers.

Focus group participants identified 21 different evaluation criteria and determined that, first and foremost, usability and capability – not affordability – are the most important factors to consider in assessing the garments, though cost, ease of deploying and ease of maintenance will be taken into account. Regarding design, assessment

The 27th Annual Report on the Latest Advances in Ballistic Armor Technology and Design

POLICE AND SECURITY NEWS EDITORIAL STAFF

It's been unusually quiet on the home front regarding the state of the industry for advances in ballistic armor technology. This can be attributed to a number of reasons – the most obvious being the current situation worldwide, with countries continuing to battle against the COVID-19 pandemic.

First reported back in 2018, the NIJ's revised ballistic-resistant body armor standard 0101.07 is still awaiting implementation. It is a revision of NIJ Standard 0101.06, Ballistic Resistance of Body Armor, introduced in 2008. Its primary purpose is for use by the NIJ Compliance Testing Program (CTP) for testing and evaluation of ballistic-resistant body armor for certification by the NIJ. The .07 standard seeks to improve the test methods, along with the performance requirements, for the level of ballistic resistance body armor

must have to protect from handgun and rifle fire. The NIJ Standard 0101.07 is more stringent when compared to the previous NIJ .06 Standard. For example, it will include improved test methods for female body armor and updated body armor protection levels which incorporate additional rifle threats faced by US law enforcement. According to unconfirmed sources, publication of the final version of NIJ Standard 0101.07 is anticipated to occur in the beginning of 2021.

New Materials

In late November 2019, Honeywell introduced Spectra Shield® 6360, an advanced ballistic material for the creation of soft body armor. In tests, Spectra Shield 6360 demonstrated up to seven percent more ballistic protection than its predecessor in the Spectra Shield 5000 series, reducing

tem. The pad system connects with VELCRO® to the helmet surface; is constructed of EPP, foam, porous foam, and mesh fabric; and comes in light blue and black. (armorexpress.com)

GH Armor Systems

The Tactical Critical Carrier MOLLE (TCC.M) is an external tactical carrier made of 500 and 1000 denier CORDURA® nylon and incorporates MOLLE webbing. An external 360° adjustable cummerbund is designed with standard hook and loop front closure or a new feature, a quick-clip closure, as an upgrade. Front and rear top-loading plate pockets accept a variety of special threat and hard armor plates. Other features include shoulder closures which offer up to three inches of adjustment; a telescoping rear drag strap; mic tabs; and an internal cummerbund for secure fit. (gharmor.com)

Hardwire®, LLC

Hardwire's Tactical Shields come in three designs (notched, window or standard) and two levels of certified NIJ protection (Level IIIA or Level III). These tactical shields are lightweight – weighing only 5.8-8.2 pounds for Level IIIA and 20-25 pounds for Level III (depending on design). Hardwire designed their shields from armor technology which was developed for the Department of Defense and with input from law enforcement professionals. This provides ease when carrying any of these Tactical Shields with one arm, for as long as necessary. It also adds speed to



Hardwire®'s Tactical Shields are available in three designs: notched, window or standard.

the officers and protects the head and torso area in nearly every tactical scenario. (hardwirellc.com)

Havis, Inc.

Havis recently announced a partnership with Hardwire, LLC to provide mission critical ballistic armor for public safety vehicles.



Hardwire®'s armor kits from Havis include a window insert solution.

Hardwire ballistic panels are proven, high performance vehicle armor. The armor provides NIJ Level IIIA armor protection and tests confirm that they will stop .357 SIG and .44 Magnum ammunition fired from longer barreled handguns, as well as from shotguns. This enhanced armor provides additional protection to public safety officers while in the field or on the scene.

Hardwire's armor kits from Havis include an external door and window insert solution. The kits are lightweight and durable, easy to install or remove, and transferable to like models. (havis.com)

Point Blank Enterprises, Inc.

Point Blank Body Armor has a host of new ballistic protection products available in 2020. Constructed of a highly durable stretch material, the Compression Carrier incorporates four-way stretch mesh material on the shoulders, sides and tail for improved ventilation. The proprietary Thoracic Ballistic Contour (TBC) design naturally represents the human form with soft ballistic panel edges to achieve a low signature. The Compression Carrier naturally flexes to the contours of the body for greater maneuverability and concealability while the thermoregulating inner lining provides a cool, comfortable fit.

The new Guardian Series allows the user to custom build a carrier based on the most frequently requested options, such as the Pocket Shape, ID Panel, Badge Flap, Load Carriage, and Plate Loading preference. These features can be selected to meet mission specific needs, resulting in multiple varia-

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The Guardian Series features a front and back 3-D inner spacer mesh which provides cooling.

tions of the Guardian which offer optimal functionality. The Guardian (GDC) is one of the variations which combines the durability of a load-bearing vest with the tailored appearance of a uniform shirt carrier. The carrier features multi-functional pockets, MOLLE webbing to attach equipment pouches and a concealed center zipper for easy donning and doffing.

The SOB NEMESIS™ is a rifle-rated defensive position designed for situations where mobility, lightning-fast deployment and efficient transport are essential. The SOB NEMESIS is available in NIJ Level III armor, as well as NIJ Level III+ armor which is certified to defeat the special threats of the M855 and 7.62x39 MSC. The viewport and front fasteners are certified to the same ballistic rating

as the armor itself. The system features a removable shield which can be quickly detached and used independently as a hand carry shield and the entire system folds in half for storage and transport. (pointblankenterprises.com)

Safariland

The Safariland Group (Safariland) introduced its next generation Safariland PROTECH® X Series ballistic shields featuring the FoxFury® Taker B70 integrated shield light and handle.

The X Series models with the FoxFury Taker B70 Integrated light and handle feature a highest quality LED light with the functionality merged into the handle design. The cord-free light is bolted to the shield through the handle and is powered by six CR123 batteries which are incorporated into the handle, eliminating the need for battery packs and external wiring.



The next generation PROTECH® X Series ballistic shields features the FoxFury® Taker B70 integrated shield light and handle.



The NEMESIS™ system folds in half for convenient storage and transport.

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