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NOVEMBER/DECEMBER 2015
VOLUME 31 ISSUE 6

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FOCUS

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P&SN presents its 18th annual report on the latest technical advances in police vehicles, components and aftermarket equipment.

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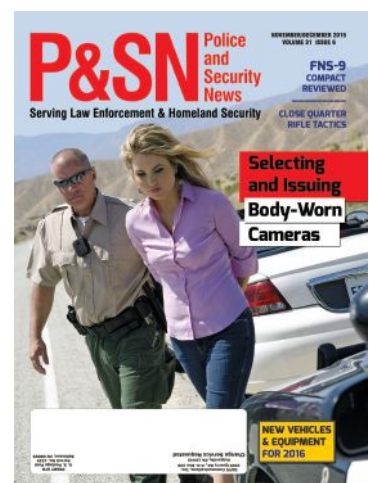
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Real Stories of Genuine Absurdity

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...AND NOTHING BUT THE TRUTH

When I saw a uniformed patrol officer talking to a citizen on a sidewalk the other day, I suddenly missed patrol...just for one minute...okay, for perhaps 30 seconds.

Patrol, as you all know, provided some bewildering experiences. Every day was like a new visit to an ever changing circus. Think about the people you encountered in uniform and the situations you engaged in. All of this with about five minutes (or less) to plan and a terse, scratchy description from the dispatcher with a fortune cookie's message worth of information about where you were going and why.

Nowhere, in any job on Earth, is there that kind of spontaneity. In no other profession do you have to adapt, react, observe, manage, control, communicate and be mindful of your own survival under such duress, stress and uncertainty. It's a two minute drill – with no time-outs – and the other team has two extra linebackers to blitz with. It's a safari, a night dive, a space walk with Houston gone silent.

Aside from some military environments, police work is unparalleled as dive in, on-the-job training for people skills. Go to the top seminars in the corporate world



Ramesh-Nyberg

Tales from the hood...

about business and management, and they cannot – in two days and for two thousand dollars – endow you with the experience and tools for human behavior you acquire in just one shift in uniform. It can be grindingly stressful, exhilarating, frustrating and sometimes pee in your pants hilarious. So, I dedicate this column to everyone still donning the uniform and going out into the fray. Even though the actual crime rate is lower, today's streets are scarier and less predictable.

I remember well a semihomeless man who had a huge, wild shock of hair, grimy clothes, a large round beard, wild bulging eyes and long dirty fingernails which looked like bear claws. He would go into convenience stores and rip open bags of cookies and eat them as he walked out. When the clerk would yell at him, he would growl back. On each call we got from a store, the description was the same. Naturally, we nicknamed our sugar addict fugitive, "Cookie Monster." Cookie Monster hit about six stores before we finally caught him in the act. As part of patrol in our respective zones, we were always checking the convenience stores anyway for potential robberies, but we kept an extra eye out for Cookie Monster. Then, one day, I spied him walking into a 7-Eleven®. He never saw my patrol car. When I confronted him inside, he was choosing between Chips Ahoy! and Pecan Sandies. He growled at me; I looked at his hands and saw those dirty talons he had for fingernails and I took out my PR-24. "If you try to scratch me with those, you're going to bleed really bad," I told him. There was only a slight resistance when I cuffed him, mostly growling and struggling, but Cookie Monster's awful reign was over (at least in our district).

In North Miami, there was a guy who had a white step van completely covered with biblical verse and quotes written in blue Magic Marker®. He went from

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laundromat to laundromat and he told me one day that the FBI was poisoning his clothes. One day, I saw him riding a bike with a small lawnmower engine attached to it. The engine didn't drive anything; it just made noise. Where do these people come from?

One of the best wackos, however, was a guy who called the suicide hot line one night. When we arrived, we could see him through the blinds on the phone still talking to them. Then, he grabbed a revolver and shot himself in the leg. We rushed in and, as fire and rescue was strapping him onto the stretcher, we saw that he had already shot himself three times before we got there. His living room was a landfill of empty vodka bottles and mounds of cigarette butts. The next morning, as that midnight shift was ending, I got a call to go to the hospital for a man causing a disturbance. It was the same man – he was yanking out his IVs and hurriedly putting on his clothes.

"I've got an important meeting in an hour," he told me calmly, as if nothing had happened the night before. "I'm the Vice Chair of the Civil Aeronautics Board. I can't be in here."

In North Miami (a 90 man department), our station was smack in the middle of the city, with the fire station next door. The desk was always manned by at least one sworn officer. On this day, it was my turn at the desk. I heard a wailing sound and a man came through the front doors – one hand over his eyes, the other out in front, feeling his way as if in the dark.

"Aghhhhh!" he wailed, "I can't see!!" When I tried to calm him down and I asked him what happened, he said he had accidentally splashed cleaning chemicals in his face and was blinded. Did he call 911? Yes, he wailed, they told him to "read the emergency instructions on the label."

"How the hell could I do that when I can't see??" He had a point there. So, he had walked, Frankenstein-like, two blocks from his house to the station. My partner was busy dispatching a call and was clueless to my exchange with the stricken man. I told him to go back outside and turn right. He would be at the fire station and they would treat him. He felt his way back out, wailing the whole way. Five minutes later, he came back.

"There's *no one there!!*" he moaned.

Just then, I heard one of our units take an arrival with fire and rescue at a house. The call: chemical injury. That's when the light came on for my partner. "Oh, shit," he said, "the fire units are all at his house."

We had an oddball named Lillian who lived in the ghetto when I worked in Opa-Locka, one of the roughest neighborhoods

in south Florida. She thought she was a wealthy socialite. One day, we were on a second floor landing of an apartment building helping fire and rescue with a shooting victim and a crowd had gathered downstairs. Someone from the crowd threw a rock at us. Then, a bottle crashed against the wall behind us, and then another, and then a gunshot rang out. We hurriedly got the guy down the stairs and I looked down at the crowd which was being dispersed by our now arriving backups. There was Lillian, in an *evening gown*, holding a cocktail glass in one hand with a napkin wrapped around it. "This is awful," she was saying as she walked slowly through the crowd, "just awful..."

Hollywood just can't make this stuff up, although "Reno 911!" hits the mark. A friend thought I was crazy when I told him that it was the most realistic police show on television. The different dynamics of cop/citizen relationships on the street is hard to convey. There was a group of losers who used to drink outside a convenience store in Opa-Locka. We used to always card them; run them; shoo them away; and, sometimes, if it was slow, make an arrest for the "drinking alcohol within 500 feet of the establishment"

ordinance. When I changed departments, I told one of them he wasn't going to see me anymore, that I was going next door to North Miami.

"Aw, man," one of them whined, "Why you leavin'? You was all right." This was from a guy I had arrested two weeks before.

Riding down Dixie Highway one evening in the early '80s, my partner, who had been on about ten years longer than I had, spied a guy limping down the side of the road. "Hey, stop the car," he said, "I know that guy. I shot him eight years ago in Liberty City."

My partner got out and stuck out his hand as the man stared at him. "Remember me?" he asked the limping man. "I shot you!"

The guy grinned. "Oh, yeah! How you doin'?" And they had a nice chat while I sat in the cruiser and thought, "One day, I should really write about this stuff." **P&SN**

Ramesh Nyberg retired from law enforcement in November 2006 after 27 years in police work. He now owns his own private investigation agency, Nyberg Security and Investigations, and can be reached at Ramesh@NybergPi.com. He enjoys getting feedback from readers.

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FOCUS ON TECHNOLOGY

Body Armor/Ballistic Protection

New Alpha Elite Black – Level IIIA Ballistic Package



As the first body armor ever made with the Dyneema® Force Multiplier Technology by DSM, the Alpha Elite system offered by Point Blank Enterprises continues to break ground. The most recent advancement is the substantial reduction in weight of the Level IIIA ballistic package. Referred to as the **Alpha Elite Black**, the enhanced ballistic package weighs in at a remarkable 0.79 pounds per square foot (psf), decreasing from 0.87 psf and surpassing previous levels of comfort in a Level IIIA package. The **Alpha Elite Black** creates an entirely new standard in comfort while continuing to provide extraordinary protection, flexibility, mobility and coverage; high effectiveness against fragmentation; and multi-hit and special threat performance beyond FBI protocols.

Circle 6006 for More Information

New Razor GEN2



Constructed of Twaron® Flex Woven Aramid and Dyneema® UHMWPE, the **Razor GEN2** (Level II and IIIA) is Armor Express' thinnest ballistic offering; is capable of stopping some of the most advanced rounds available; and offers the ultimate in concealability. The cover is seam-sealed and constructed of waterproof ripstop nylon; it is available in a female version.

Circle 6009 for More Information

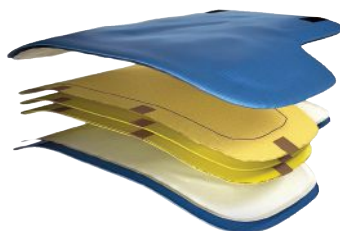


New Tactical Vest Series

The **Atlas Tactical Vest Series**, from GH Armor Systems, consists of the Atlas T3 plate Carrier, the Atlas T5 Extended Coverage, and the Atlas T7 Full Coverage tactical vests, engineered specifically for a combination of lightweight, protective coverage with mission specific configurability. The accessory components are interchangeable among all Atlas models with optional and removable Quick Release functionality.

Circle 6005 for More Information

New Family of Body Armor Solutions



The Safariland Group announced the release of an all new line of **ABA® Xtreme®** body armor solutions for law enforcement. The new **Xtreme** ballistic panels feature gender specific, biomorphic designs which mimic the shape of the body and enhance comfort. The layering and unique blend of materials amplify comfort, keeping the panel light, thin and flexible.

The **Xtreme** ballistic panels are finished using a thin, heat sealed thermoplastic polyurethane membrane to ensure that the panels are protected. These panels are then encased in a soft nylon shell to withstand the elements while enabling enhanced comfort during wear.

Circle 6007 for More Information

Mobile Rifle Armor Protective Shields



The **MRAPS™** and **MRAPS-IV™** ballistic shield models, from Baker Ballistics, LLC, protect against centerfire rifle caliber threats while enabling users to accurately fire long guns or handguns while on the move. The armor components are constructed utilizing an exclusive and proprietary military-grade polyethylene composite armor matrix – the most weight efficient NIJ rated Level III and IV ballistic shields currently available. Weighing 19.2 and 22.9 lbs. respectively, the Bungee/Quick Release carry system allows each shield to be suspended off both shoulders “hands-free” for elimination of user fatigue and ease of weapon manipulation.

Circle 6008 for More Information



New Armored Panels

Angel Armor™ recently announced its newest product in their ballistic protection lineup, the **Ally One** Level IIIA concealable armor which provides versatile ballistic protection for on and off duty.

The **Ally One Armor Panel** has unlimited applications; exceeds NIJ 0108.01 Level IIIA standards; has a sleek, ultrathin design for discrete use; has a weatherproof seal; and its convenient sizing (10.25" x 13.25") fits laptop bags, backpacks and briefcases.

Circle 6010 for More Information

Introducing Seraph GEN2



Armor Express has introduced **Second Generation Seraph**, offering thinness, low weight, and excellent flexibility. Both Level II and IIIA **Seraph GEN2** models are capable of stopping some of the most advanced rounds. The ballistic material is a blend of Twaron® and Dyneema®, covered in a semi-sealed, waterproof ripstop nylon. **Seraph GEN2** is also available in a female version.

Circle 6011 for More Information

New Ironman Suit



The **RHINO** (Rhino Adaptable Armor System) is a fully functional, real-world ironman suit introduced by Phalanx Defense Systems, LLC. The **RHINO** provides the wearer with reduced trauma associated with impacts from various handgun, shotgun, and rifle threats and incorporates ultralightweight ballistic technology. The **RHINO** has many capabilities which are being developed, tested, and evaluated.

Circle 6012 for More Information



Baker Batshield® PatrolBat™

Designed to protect solo responders to an active shooter incident, the **PatrolBat** is the smallest sized model of available Baker Batshields. Manufactured using proprietary Aramid Reinforced Composite (ARC) armor panels, the **PatrolBat** offers budget conscience agencies low acquisition costs without sacrificing performance. Compact when folded, the three overlapping multicurved armor panels provide protective wraparound ballistic cover to the armed responder on the move – weighing only 13.5 lbs. while providing NIJ Level IIIA protection.

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Conflict in the Workplace

Michael Carpenter

**WOULDN'T IT BE NICE IF WE
ALL GOT ALONG? WELL, OF COURSE,
THE TRUTH IS THAT WE DON'T!**

Human nature being what it is, conflict between people is bound to happen. For a long list of reasons, when human beings get together, it seems that, sooner or later, it is inevitable that there is some disagreement, dissension, conflict or emotional turmoil. That's the basic premise of many "reality" television shows. As we watch the "train wrecks" happen on these television shows as spectators, we say, "How can they be so stupid?" or "Why don't they grow up?" or "How can they bicker over something so trivial?" Well, we sometimes end up in a reality show where we work and, unfortunately, we aren't the spectators – we're

"on the train" and heading for a wreck. It's bad enough that we deal with too much conflict and turmoil from the public, but too many times there is conflict and turmoil within our own ranks. How a supervisor or manager handles the internal conflicts between his (or her) employees may determine the success or failure of an operation or the motivational outlook of an entire shift or, possibly, the success or failure of his (or her) own career.

Situational Awareness

Conflict can arise anywhere in your organization. It may consist of longtime jealousy between two lieutenants who didn't like each other when they were

patrol officers. It may be that a sergeant in charge of patrol operations has a conflict with a sergeant in charge of the emergency response team over who is in charge at the scene of an incident. It may be that a police officer takes it personally when another officer gets a special detail or is sent to a desirable in-service training school instead of him.

Part of your job as a manager is to be alert for the presence of conflict among any or all of the people who report to you, regardless of their rank or title or position. Minor and temporary disagreements between people may not require immediate action on your part. These are often attributed to somebody "just having a bad day" or somebody lashing out and saying something regretful or stupid or mean, but then apologizing after they cool off. However, when minor conflicts escalate and threaten to disrupt operations, it's time for you to step in and take action.

Once you decide the situation has gotten to the point when you need to intercede as a boss, the way in which you approach and handle the situation is critical to your success or failure. To help you, here are a few hints for handling a conflict situation.

Decide What You Want to Accomplish

Be realistic in setting this goal. You can't force people to like each other, but you can insist that they work toward a specific objective and set a good example of cooperation for their coworkers to see. As an example, if a patrol sergeant and a



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detective sergeant have had a running feud for years, they probably won't become best friends – even if you ask them nicely. However, you can insist that they make arrangements to cooperate in working towards a common objective. Maybe there are some proposed changes coming in the policy manual which will affect both patrol and investigations, so you assign both of them to cochair a committee to review and comment on these revisions. Or, you might assign them to work as a team to come up with some ways to develop better cooperation between patrol and investigations.

Once you decide what you want to accomplish, meet with them, discuss your objectives, set timetables and set out specific assignments for each. You can create a plan where they work together for the good of the department. Then, move on to the next step.

Investigate the Problem

Try to identify the source of the conflict. One of the best ways to do this is to frankly discuss the situation individually with each party involved. Start with an open-ended statement which might start a discussion like, “Maybe it's just me, but it looks like you and Bill don't get along.” If your subordinates trust you and know that you're fair, they may decide to open up and explain why things are the way they are. However, don't be surprised if their perception of the situation is different. You already know that “there are two

sides to every story.” Maybe you'll need to make inquiries of other people who know something about the situation to get the whole picture. It's not that you're “investigating” them; it's just that you are trying to gather as much information as possible to solve this conflict problem. Naturally, keep your inquiries as low-key as possible and keep the responses as confidential as possible.

You may find that the parties involved are unaware that a problem exists or that their minor disagreements have gotten a little out of hand. On the other hand, their reaction may indicate a bitter, long-term dislike between two people based on a single misunderstanding from years ago which has led to the ongoing conflict. When your investigation is complete, move on to the next phase.

Call Together the People Who Can Best Settle the Issue

Hopefully, through your investigation, you identified the source of the problem. From that, you can probably identify the people who are involved and those who can perhaps help settle the conflict.

If it was a simple personality conflict between the patrol sergeant and detective sergeant, maybe they can at least learn to “play nice” (especially in front of other officers) when they work together to solve a problem. In the case of the conflict between the patrol sergeant and the sergeant in charge of special operations over authority at a scene, you may need to schedule

a meeting with a command officer to discuss point by point a specific policy which covers that topic. Or, they can discuss situations where conflicts occur with a command officer and he can specifically answer their questions to help settle the conflict. In other cases, you may need to bring in someone from human resources or the personnel department or a union representative to help solve some ongoing problems. Regardless of who is involved, the next step in the process is critical.

Be Ready to Bargain

Nobody likes to think they are right and then have somebody point a finger at them and say, “No, you're wrong. The other person is right.” Human nature does not take to being told we are wrong very well. We are all human enough to feel much more open to reason (maybe even compromise or cooperation!) if we feel that there is some room for negotiation in resolving the situation.

If your people feel that this meeting will merely be a “trip to the woodshed” and will amount to nothing more than downward mandates, threats or orders, they will not be willing to permanently resolve the conflict. However, if they feel there is room for negotiation and that you are open to a fair and just resolution, they may be much more willing to solve the problem on a permanent basis.

Keep Your Objective

Too often during an attempt to settle conflicts, the participants get sidetracked



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by other issues. There is no need to dig up old personal grievances or keep going back into the past to “justify” their positions. During your discussion with them, you may have to redirect the conversation to the specific objective you wrote down earlier when you decided what you wanted accomplished. Be sure the conversation and negotiations continue toward that objective. You can’t “fix” or change what they believe went wrong last month or last year or ten years ago – your job is to keep the conversation in the present with an eye towards the future.

Avoid the Traps

- Don’t focus on the personalities involved, only on their performance.
- Don’t get emotionally involved, even though the participants may be.
- Don’t choose sides. Merely get to the root of the problem and negotiate a reasonable settlement or compromise with which you can all live.

Focus on Mutually Beneficial Outcomes

Everyone wants to come out of the meeting a winner. Therefore, direct the

meeting so that everyone gains something – even if they have to give up something. If everyone leaves feeling that the conflict was resolved in his (or her) favor, then you have done an excellent job.

Ensure that Everyone Understands

Most conflict situations will be resolved by promises of change in future actions or behavior modifications. Summarize what each individual has agreed to do in the future. Be sure that he (or she) understands his (or her) role and his (or her) specific assignments. Then, move on to the very important last step in this plan.

Follow Up

Follow up with each individual to ensure that there is no misunderstanding about his agreement and assignments. Make sure that each person involved in the conflict resolution process lives up to his end of the agreement. If he doesn’t, then the whole agreement could be jeopardized and the conflict will flare up again.

It may be harder to resolve the same conflict the second time around. That’s because your credibility, and the credibility

of the other parties involved, has been damaged by the inaction and lack of follow-up from the first agreement. Therefore, be sure everyone does it right the first time.

Recognizing conflict as a natural part of people working together can help you to put such problems in their proper perspective. You must also understand that, as an effective supervisor and manager, it is your duty to minimize and resolve conflict.

Once identified, the proper handling of conflict situations in a calm, orderly and professional manner can ensure that your career remains intact and on the road to long-term success. **P&SN**

Mike Carpenter has been working in the field of law enforcement for more than 30 years. He has written several books on the topic of police leadership and supervision, as well as more than 100 articles for publications. He runs a successful consulting business, www.policemanagement.com. You can contact Mike at MJCarpenterX2@yahoo.com.



PULSAR

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THERMAL IMAGING DEVICES

The new Pulsar Quantum XD38S and XD50S thermal imaging monoculars were designed to provide law enforcement and security officers the ultimate edge. The new thermals feature an advanced OLED display (640x480 pixels) and a high resolution microbolometer sensor (384x288 pixels) with seven different color palette modes for optimal viewing in a variety of scenarios. Users have the ability to switch between “white hot” and “black hot,” making targets distinctly visible over 1,000 yards away. The digital zoom function not only provides the advantage of viewing long distance targets, but also closer targets in greater detail. Featuring a 50 hertz frame rate for a crisp, consistent image of fast-moving objects, the XD38S and XD50S are engineered to track targets quickly and easily.

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THROUGH THE SIGHTS

Walt Rauch

The FNS™-9C (Fabrique Nationale Striker-fired 9x19mm Compact) is one of six in the striker-fired FNS Series and offered in calibers 9x19mm and .40S&W. All are available with or without an ambidextrous safety. The FNS-9C without the safety is reviewed here.

Overall, the FNS-9C is similar to other striker-fired handguns, with the GLOCK® design coming to mind. (As the saying goes, imitation is the most sincere form of flattery. This is also proven by the seemingly never ending number of 1911 clones!)

Features

The striker-fired FNS-9C uses a short recoil system where the barrel hood locks into the large ejection port window and a captive dual recoil spring is used.

The slide has nine front and 11 rear rectangular shaped diagonal grasping grooves. The blackened stainless steel slide is stepped inward on the centerline of its sides for its full length, with the lower part higher than the upper portion. This thicker part increases upward starting in line with the rear of the ejection port.

The slide is fine bead blasted and the stainless steel, cold hammer forged 3.6" barrel is polished and similarly colored black. Other metal parts are also blackened. The front and top edges of the slide, which moves on four rails in the black colored polymer frame, are nicely rounded.

FNH USA

9mm



FNS-9 Compact

Great for both open and concealed carry!

The three white dot sighting system has a square notched rear sight and a slightly ramped front sight in dovetail cuts which can then be adjusted for windage corrections; although, the owner's manual states such changes should only be done

by FN or an FN trained armorer. The white dot in the front sight looks to be larger than some others. The face of the front sight is smooth, while the back of the rear sight is horizontally grooved. On this sample, there is a slight air gap between the bottom of the sight bodies and the slide. While not a critical item, it is not a welcome one. Night sights are available from FNH.

Safeties

The FNS-9C has three safeties – the trigger safety; a slide mounted drop safety; and an external extractor which, in addition to extraction, functions as a loaded chamber safety. The external extractor is centrally placed at the right center rear of the large ejection port. It protrudes when a round is chambered and can be seen (its now exposed area is colored red to help do so) or, lacking illumination, can still be felt.

The slide lock and magazine release are ambidextrous (as is the manual safety

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The gripping area has strong pebbling. Flat and arched backstraps are supplied. One pin needs to be removed to change these out. The ambidextrous slide catch and magazine release are recessed in the frame.

on the other version of the FNS-9C). The ambidextrous and horizontally grooved slide stop, takedown lever, magazine catch and magazine release are all slightly recessed. The last is at the lower rear of the rounded and ample trigger guard.

These are certainly nice features which are not commonly available in the lower priced range of such pistols.

Magazines

Three metal magazines having removable polymer base plates are supplied. They include two 12 round magazines and one 17 round magazine. The 12 round versions share the same finger rest base plate, while a longer 17 round version uses one which is a flush fit. This is done so that the provided slip-on polymer collar fully fills the open space between the exposed portion

of the magazine and the removable backstrap which then provides a full three finger grip for better recoil control. The collar and the other two plates have various iterations giving purchase to their surface. The magazines are deeply

grooved on both sides and the body is polished and blued. Their polymer followers are marked "9mm." One quibble here is that the magazines are apparently manufactured by form folding metal into a rectangular body and then, apparently, welding the two together which leaves a seam. Cartridge witness holes are on either side of the seam. The 12 round magazines are numbered 4 to 12 and the 17 round version is numbered 4 to 17.

Here's another caveat. The magazine springs are quite strong and were difficult for us to load. No loader is provided, but I found that the GLOCK magazine loader for the standard frame-sized pistols did work (with a bit of fiddling with the loader) and it definitely gave our thumbs a break.

Takedown

Disassembly is quite easy, with one caution as follows: After insuring a safe and empty weapon and dry firing it before locking the slide back and rotating the left side only, spring-loaded takedown lever 90 degrees downward, the slide can then be removed forward and off the four

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Circle 6022 for More Information



The external extractor also serves as a loaded chamber indicator. Its front portion will cam out when a round is in the chamber and the top of the now exposed extractor is colored red.



A LaserMax® Uni-Max® Micro™ Laser easily attached to the Picatinny rail. The 17 round magazine has a removable collar for help in gripping and to prevent overinsertion into the slide when the slide is rearward.

rails in the frame. There is a variance in doing so, though, as the owner's manual states that the slide must be given a good tug for removal (as I discovered the first time I tried disassembling the pistol). Normally, a slide does just that – which is slide off – but, here, it was not the case. In short,

it felt stuck and I was reluctant to just yank it and break something, so I did what I normally do (and hadn't) which was read the manual first. In it, the reader is instructed to give the slide a firm tug, which worked. The polished and blued barrel drops down and out to the rear after the

captive dual recoil spring is removed.

Its striker firing system is similar to some handguns in that the striker is partially (not fully) cocked when the slide is cycled. This compares to other similar pistols on the market which feature a fully cocked striker upon racking the slide.

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Circle 6023 for More Information



The white dot sights really do stand out!



Dr. Joe Mulligan's two five shot groups at ten yards measuring 2" and 2.25"

The pistol has a changeable backstrap with two supplied. One is slightly arched while the other is more fully arched. A 1/16" pin punch and some strength or a light hammer are all which

is needed to make the switch by removing a cross pin at their lower ends. The pistol is also supplied with two changeable frame inserts which may be described as flat and arched in size. The

frame features a Picatinny rail for a light or a laser.

Range Work

Irv Gill and I set up at ten yards on the indoor range of the Lower Providence Rod and Gun Club in Oaks, PA, using Remington® Yellow Box 115-grain FMJ and SIG SAUER® 147-grain V-Crown JHP ammo against Birchwood Casey Shoot•N•C® bull's-eye targets and Warren reduced-size IDPA targets. After doing the obligatory (for us) familiarization with dry firing, we allowed that the trigger pull felt pretty good. As mentioned earlier, we did run into a problem with the magazines, as they were definitely hard to load, so we stopped at seven rounds rather than struggle to fully load 12 or 17 rounds into them. (However, as I said, back home, I found that the GLOCK loader supplied with the standard frame GLOCK pistol sufficed.)

After this, we popped a few rounds to confirm our point of aim which the manual states that the gun is sighted in at 20 yards. Next, we found two "problems." First, both of us were having a bad day, as our five shot groups ranged from no more than three shots under three inches, with the others landing out to five inches. Second, you have to be careful if you want the magazine to drop free. To do so, you need to hold the magazine catch in while it falls.

At first, this might appear to be a design defect, there's also an advantage to this in that the possibility of accidentally bumping the magazine release while carrying or shooting a pistol is much greater than any need for a speed reload. That is particularly so in this case, since the pistol

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T4E: A Cost-effective Training Solution

One of many challenges facing law enforcement trainers is how to balance the proven benefits of increased interactive reality-based training against cost in a climate of stagnant or shrinking budgets. Weapon-based marking cartridges are expensive. Paintball or airsoft are limited in realism.

An emerging solution is Umarex Training For Engagement (T4E). T4E offers the TM-4 carbine and X50 pistol. They are engineered for law enforcement training use. Unlike weapon-based conversions, they are complete platforms which were never capable of firing lethal ammunition. They operate on 12 gram CO₂ capsules and fire .43 caliber rubber, powder or paintball rounds. They fire at a velocity of 325 feet per second which, while felt, only requires eye and face protective gear for training, making them ideal for close quarters, force on force training. Due to their 1:1 ratio to a standard M4 rifle and P226 pistol, they accept the same



external accessories used on duty. Being low impact nonguns, they can be used in places where real firearms would be barred.

The TM-4 carbine is engineered specifically for law enforcement training and is a complete platform, not an upper replacement for an actual weapon. It underwent three years of product testing and development to create a reliable, easy to maintain training rifle. It loads from a detachable box magazine which is reinforced to maintain the weight and feel of a loaded M4 magazine. The magazine holds the CO₂ cylinder and will hold 13 powder or paintball markers or 15 rubber balls. For maintenance, the TM-4 comes with an additional bolt assembly to change after a recommended 3000 to 3500 rounds have been fired. Changing the bolt assembly and keeping the TM-4 clean and oiled ensures reliable function. Each TM-4 comes in a hard plastic case with one magazine and an additional bolt assembly.

The X50 pistol uses a nine shot magazine which fits in the butt of the grip and releases with a standard magazine release button. The slide feeds rounds through blowback action and locks open on an empty magazine. The pistol has a standard slide release and decock levers and takes down like the actual weapon. Proper lubricating and maintenance procedures will ensure against excessive seal wear. Each X50 pistol comes in a plastic hard case with one magazine.

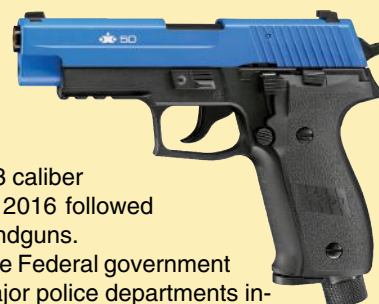
The powder ball rounds offer a fine chalk dust for marking hits with minimal cleanup. The paintball rounds offer a darker, wet marking capability. Both clean up easily with an all-purpose cleaner and allow training in borrowed facilities without damage to property. The rubber ball rounds offer a greater range of accuracy and can be collected, cleaned and inspected for reuse, adding to the savings in the T4E

platform. It requires three CO₂ cylinders per 100 marker balls. Bought in 8000 round bulk packs, 8000 markers plus the CO₂ to fire them all will cost about the same as 1000 rounds of weapon-based marker ammunition.

Umarex is committed to supporting law enforcement training with an expanding line of products. A new HK 416 in .43 caliber will be available in early 2016 followed by a line of additional handguns.

During a time when the Federal government is recommending that major police departments increase reality-based training, T4E offers the ability to "TRAIN MORE but SPEND LESS."

For more information on T4E, E-mail info@policeammo.com or visit www.T4Eguns.com.



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INDUSTRY NEWS

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policeandsecuritynews.com • November/December 2015 • Page 19

CHRONOGRAPH AND ACCURACY RESULTS

The following data was obtained using a Pro Chrony® chronograph at 300 feet above sea level with a temperature of 55 degrees. The pistol used was the FNS™-9 Compact with a 3.6" barrel and five shot averages for all data.

Ammunition	Velocity	Standard Deviation	Accuracy
Remington® UMC 115-gr. FMJ	1051	16.0	2.25"
SIG SAUER V-Crown 147-gr. JHP	984	5.0	2.0"

already holds 12+1 or 17+1 rounds. (You also learn not to block any part of it when doing a reload or you will suffer a nasty pinched hand!)

Another Go

We decided that the FNS-9C deserved another run at determining the

pistol's accuracy, so we came back another day. This time, Dr. Joseph Mulligan joined us. Also, I installed a LaserMax® Uni-Max® Micro™ Laser to better my chances of getting tighter groups. Since Joe had not shot the pistol, he went first and, using the laser, he shot two five shot

groups which measured 2" and 2.25" holding the pistol using two hands pulled in to his waist. After this, suffice it to say, we spent the rest of our time just "laser shooting."

Bottom Line

The pistol ran just fine. In every case,

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there were no failures to feed, chamber, fire or eject. Our consensus on the trigger action was that it was excellent, breaking cleanly at 6.5 pounds, with a short trigger reset. Overall, the FNS-9C is a good choice for open or concealed carry and is quite reasonably priced. **P&SN**

Upon receiving his BS degree from Carnegie Tech and completing service as a Special Agent in U.S. Army Intelligence, Walt Rauch was a Special Agent with the U.S. Secret Service and an Investigator with the Warrant Unit, First Judicial District, PA.

Rauch is also a writer and lecturer in the firearms field. He is published regularly in national and international publications.

For more information on the FNS™-9C, visit www.fnhusa.com.

Circle 6030 for More Information

SPECIFICATIONS



THE FNS™-9 Compact

Caliber: 9x19mm

Weight: 23.4 oz. (empty)

Width: 1.35"

Barrel length: 3.6"

Overall length: 6.7"

Sights: Fixed three dot or fixed three dot night

Operation: Striker-fired, double-action

Safety: Frame mounted (optional)

Magazines: Two 12 round magazines with finger extensions and one 17 round magazine with spacer/collar and a flat removable black base plate

Price: \$599 MSRP

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ABOVE AND BEYOND

“Above and Beyond...” salutes Officer Marcus Pesquera of the San Bernardino, CA, Police Department

ABOVE AND BEYOND



Artwork by Don Lomax

SAN BERNARDINO, CALIF.
AUGUST 22, 2014
EARLY AM

COME OVER HERE! LET ME SEE YOUR HANDS...

SAN BERNARDINO POLICE OFFICER GABRIEL GARCIA AND HIS TRAINEE, OFFICER MARCUS PESQUERA, WERE PATROLLING IN THE 1900 BLOCK OF GARNER AVENUE WHEN THEY CAME UPON A GROUP OF INDIVIDUALS GATHERED AROUND AN AUTOMOBILE. OFFICERS GARCIA AND PESQUERA STEPPED OUT OF THEIR CRUISER TO INVESTIGATE...



...WHEN, ALEX ALVARADO, 38, A VETERAN STREET GANG MEMBER WITH AN EXTENSIVE RECORD, OPENED FIRE ON THE OFFICERS WITH AN AK-47, GRAVELY INJURING OFFICER GARCIA WITH WOUNDS TO HIS HEAD AND CHEST! OFFICER GARCIA WENT DOWN!



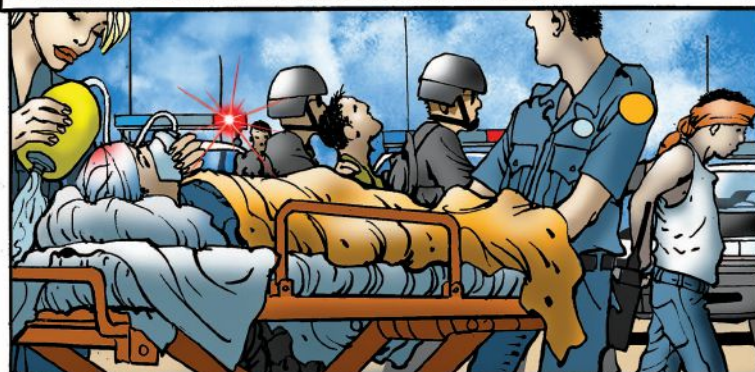
OFFICER PESQUERA IMMEDIATELY RETURNED FIRE WITH THE CAREER CRIMINAL WHILE SIMULTANEOUSLY CALLING IN "OFFICER DOWN" OVER THE RADIO!



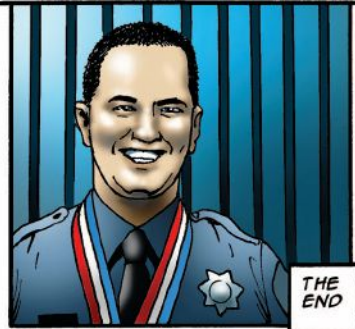
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SAN BERNARDINO OFFICER MARCUS PESQUERA RECEIVED THE CALIFORNIA STATE MEDAL OF VALOR PRESENTED BY GOV. JERRY BROWN ON SEPT. 14, 2015, FOR HIS ACTIONS ABOVE AND BEYOND!



THE END

Rogue Drones Have Met Their Match

NEWS



Battelle's DroneDefender™ is the first portable, accurate, rapid use counterweapon to stop suspicious or hostile drones in flight, providing critical security protection at home and abroad.

The Battelle DroneDefender uses radio control frequency disruption technologies to safely stop drones in the air before they can pose a threat to military or civilian safety. The growing use and availability of commercially available drones – also known as Unmanned Aircraft Systems (UAS) – is raising concerns among defense, security and law enforcement leaders.

DroneDefender is an inexpensive, easy to use, lightweight, point and shoot system with a demonstrated range of 400 meters. DroneDefender provides instant threat mitigation, quickly disrupt-

ing the drone so that no remote action, including detonation, can occur in sensitive areas. This minimizes drone damage and the risk to public safety.

This device has a cold start time of <0.1 seconds and an operating time of five continuous hours. It weighs less than ten pounds, depending on how it is configured.

The research team which developed the DroneDefender drew from their own extensive military backgrounds, as well as Battelle's deep technology expertise and its 70 year history addressing complex Chemical, Biological, Radiological, Nuclear and Explosive (CBRNE) defense challenges.

Because it is designed to repel undesirable UAS attention without doing damage to the UAS, DroneDefender can be used stateside as well as abroad, with versions hardened for forward deployment in challenging environmental conditions. It can be either fixed or portable, with battery packs available to help protect any installation, mobile VIP or unit.

To view a brief video of how it works, go to https://youtu.be/zx4XXLb_Vuw.



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God Bless and Be Safe



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Circle 6032 for More Information

PRODUCT HIGHLIGHT

FOBUS HOLSTERS



The new **GL-26 Evolution** polymer holster for the GLOCK® models 26, 27, 28 and 33 is available in paddle, belt and roto styles for both right- and left-handed users. This series of holsters offers passive retention with an adjustment screw for customized retention, ensuring that the user's pistol stays firmly in place. Steel reinforced rivets secure the holster to your attachment of choice and the rubber insert on the back of the paddle keeps the holster from moving.

Circle 6091 for More Information



GOULD & GOODRICH

The **BootLock™ Holster**, Model B716, a reliable holster designed to be worn on duty over a boot, now fits the GLOCK® 43. The boot carries the weight of the weapon so you can walk, run, and jump in comfort. The **BootLock** is available only in black.

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Holsters: On and Off Duty



Circle 6090 for More Information

PHALANX DEFENSE SYSTEMS, LLC

Introduced at the SHOT Show earlier this year, the **Stealth Operator** holster works with an expansive list of handguns. The unique design secures over 70 different weapon makes, models, and styles. An IWB version will be released soon.

DESANTIS GUNHIDE®



The **Inside Heat™**, which is now available for the SIG P938, is a bare-bones minimum IWB holster built from black saddle leather. The precise molded contours provide the weapon retention. The top is reinforced to ease reholstering and the powder coated spring clip holds it securely to your belt. It is only available in black saddle leather in both right- and left-hand models.

Circle 6092 for More Information



CROSSBREED® HOLSTERS

Celebrating their ten year anniversary, CrossBreed Holsters is offering a **limited edition selection** of their SuperTuck®, MiniTuck®, Appendix Carry, and the Women's Appendix Carry holsters. The holsters will be stamped with one of the earliest CrossBreed logos. The selection will be limited to 500 and will be hand stamped with the number.

Circle 6093 for More Information



DESANTIS GUNHIDE®

DeSantis Gunhide recently introduced a new holster fit for the Springfield XD-S® 9mm/.45 in 3.3" and 4", the **C.H.A.M.P.™, #128**. It is very compact and has an adjustable cant. The adjustable tension device and trigger guard detent keep your pistol securely seated. Moving just one screw will change this model from right- to left-hand. (An optional paddle is available separately.)

Circle 6095 for More Information



N8² TACTICAL

N8² Tactical has added the **GLOCK® 43** model to their Professional Series of holsters. This patented IWB design, which pioneered the use of neoprene in holster manufacturing, combined with the GLOCK 43, offers GLOCK fans the ultimate in all day, every day comfort and confidence.

Circle 6096 for More Information

DESANTIS GUNHIDE®



The **Die Hard™ Ankle Rig**, from DeSantis Gunhide™, features a tough top grain leather lined holster with a conventional thumb break which has been attached to a neoprene leg band. The leg band is both padded with foam and lined with sheepskin. A calf strap and boot extender are optional. This holster is built from top grain saddle leather and finished on the outside with a supertough PU coating.

Circle 6097 for More Information



SAFARILAND

Safariland®'s **Model 578 GLS Pro-Fit Holster** brings its unique GLS (Grip Locking System) to fit a wide variety of guns with a single holster. Designed to fit more than 60 firearms based on barrel length and customizable for a perfect fit, the **578 GLS Pro-Fit** features an innovative technology which automatically secures the weapon when holstered and releases it upon application of the middle finger with a standard shooting grip for a more intuitive and safer release.

The **578 Pro-Fit** holster body is constructed with SafariSeven™ material featured in the 7TS line of holsters.

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THE WHEELS OF JUSTICE

Transportation 2016



Sergeant James Post

Photos by Raymond Holt, Michigan State Police

P&SN presents its 18th annual report on the latest technical advances in police vehicles, components and aftermarket equipment.

Welcome to our annual "Transportation" issue, your one-stop location to discover all that's new and exciting in the world of Law Enforcement (LE) transportation – the vehicles and equipment you need to get the job done. Our presentation will be in two parts: vehicles and equipment. The vehicle component will be broken down into two sections – vehicles (sedans, SUVs and pickup trucks) and motorcycles. Included in this section will be the results of the annual Michigan State Police Vehicle Evaluations. The equipment component will

also be divided into two sections – first, emergency equipment and second, all other equipment, such as push bars, consoles, cameras and radar.

2016 LE VEHICLES

The 2016 LE vehicles are, for the most part, carryovers from last year with a few noticeable changes and some more subtle ones. Here are the basics:

Chevrolet

Chevrolet continues to offer the most LE choices for 2016 – the Caprice and Impala sedans, the Tahoe SUV and the Silverado pickup truck. These models are further divided by engine choices and drive-trains. The Caprice is available with either a 3.6L V-6 or a 6.0L V-8, both RWD. The Impala features a 3.6L V-6 in FWD only, either gasoline or Compressed Natural Gas (CNG). The popular Tahoe SUV has a 5.3L V-8 and is available in 2WD or 4WD. The Silverado SSV is available in a 5.3L V-8 powered, crew cab version only and is not pursuit rated.

Dodge

Chargers continue to be the most popular full-size RWD sedans. They are available with either a 3.6L V-6 or the 5.7 HEMI® V-8 in either RWD or AWD. There are also two rear gear ratios available – 3.08 or 2.62. (The AWD is available in 3.08 only.) The parent company, Fiat Chrysler, offers two other (nonpursuit) Special Service Vehicles, the Dodge Durango and Ram® 1500 pickup crew cab.

Ford Motor Company

Ford continues to do well with their two Interceptors, the Sedan and the Utility; however, the Utility is, by far, the best-seller of the two. All power plants are Ford's varying displacement V-6s and all are FWD with optional AWD. The Sedans are either 3.5L or 3.7L normally aspirated or 2.0L or 3.5L EcoBoost® (turbo). The Utilities offer either the 3.7L or the 3.5L EcoBoost and both are AWD. (FWD is no longer available on the Utility.)



Surprisingly, the Caprice PPV outran the Impala to claim this year's top speed of 155 mph.



Ford's 3.5L EcoBoost® Sedan (in AWD) won both the 0-60 and 0-100 mph contests this year.

The Results Are In

As usual, you'll get the results of the Michigan State Police (MSP) tests here first. The tests were conducted on September 19 and 21, 2015, and there were some surprises witnessed by the fleet managers in attendance. The speed and brake tests were conducted at the Chelsea, MI, Chrysler Proving Grounds and, following a day off, the MSP tests moved to the Grattan Raceway in nearby

Belding, MI, for the Vehicle Dynamic Tests on their two mile road course.

There was a large field of 15 2016 vehicles provided to the MSP for testing this year. Despite having only two models, Ford had the most entries with six vehicles: four Interceptor Sedans and two Interceptor Utilities (SUVs). Chevrolet was next with five combatants: two Caprices, two Tahoes and a lone Impala. Dodge fielded four versions of the

Charger Pursuit. Those results follow.

What Will It Do?

Naturally, everyone wants to know who was the fastest. Well, this year, the Caprice beat out its smaller cousin, the Impala, for bragging rights with a scorching 155 mph! This breaks the Impala's record of 150 mph set last year. The manufacturers must have thought 150 mph was the standard to achieve this year, as there was a three way tie for

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second place, all with computer limited 150 mph speeds, set by the FWD Impala, the high geared RWD HEMI Charger, and the AWD EcoBoost Ford Sedan PI. The third highest speed (146 mph) was set by the Aussie built Caprice V-6.

Two vehicles tied for the slowest top speed of 121 mph – the 4WD Tahoe and the 2.0 AWD EcoBoost PI Sedan.

As exciting as the top speeds are, there is another criteria which most buyers feel is more important – the time it takes to achieve those speeds. The MSP records speeds in ten mile per hour increments (seconds) from 0-20 to 0-100, but 0-60 seems to be the most significant, as that represents the time it takes to achieve freeway speeds from an on ramp.

The fastest 0-60 and 0-100 speeds were achieved by the pocket rocket from Ford, the 3.5L EcoBoost Sedan in AWD, at 6.17 seconds and 14.58 seconds, respectively. Second place in both categories was the V-8 Caprice, with 6.26 and



The “stopping on a dime” award goes the V-6 powered Charger.

14.83 times. Third place went to two Chargers. The higher geared HEMI in RWD hit 0-60 in 6.48 seconds, while the AWD version did 0-100 seven tenths of a second faster at 15.48 seconds.

The Tahoe speeds are certainly worth mentioning. With top speeds of 121 mph (4WD) and 137 mph (2WD), they are certainly a force to be reckoned with. That is

quite amazing, really, when you consider their curb weight and all the gear they are designed to carry.

Sure, but Will It Stop?

As significant as the speed trials are, the braking tests are easily the most crucial, as they can spell the difference between a successful run and a whole lot of bent metal and possible injuries, or worse. The braking tests were conducted at the Chrysler Proving Grounds as well. Projected stopping distances are the average of two 60-0 mph stops measured in feet.

After years (and, maybe, even decades) of miserable brake performance, Chrysler has redeemed itself with stellar results the last few years. This year was no exception, as three of the four Mopars tested tied for the best stopping distance. (Well, with only fractions of a foot separating them, I’m calling it a tie.) The high geared V-6 Charger was the best at 125.1 feet; the lower geared V-6 was 125.6 feet; and the high geared HEMI was 125.8 feet. The AWD

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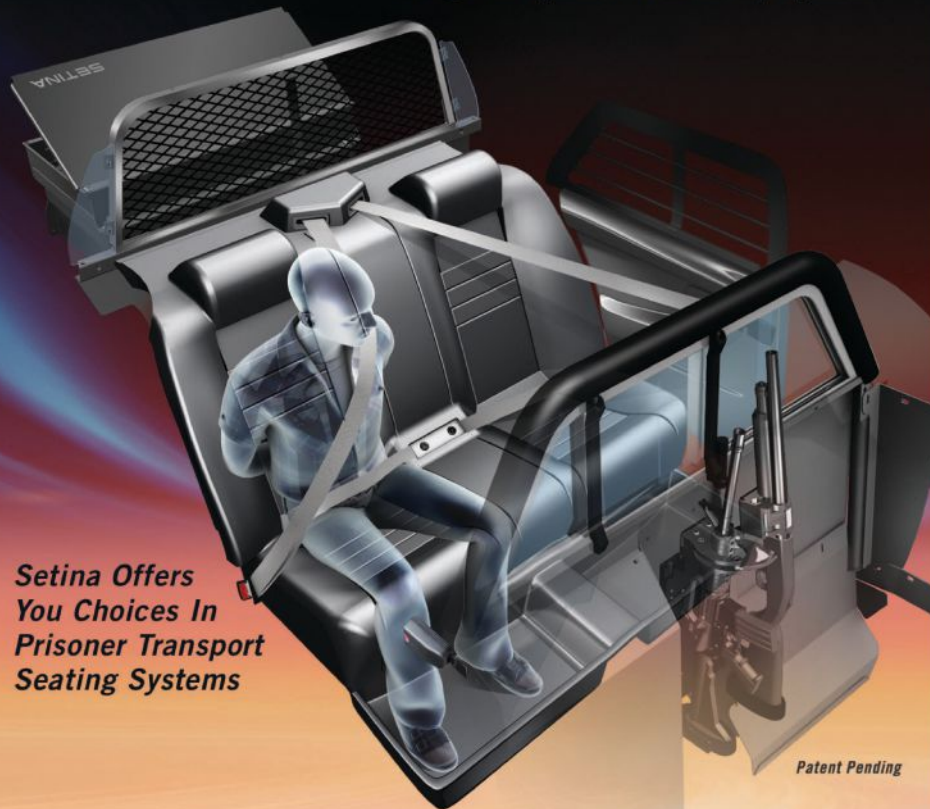
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HEMI Charger came in second place at 128.6 feet. The third place winner was right behind; the PI Utility AWD recorded 128.9 feet. Rounding out the best brakes at fourth was the V-8 Caprice at 129.9 feet.

The worst braking performance this year was recorded by three of GM's entries, the Impala and two Tahoes, with all of them requiring over ten feet more of stopping distance than the Chargers. To put that in perspective, it would be the equivalent of sliding through a crosswalk and causing great mayhem to a person unfortunate enough to be occupying that space. For the record, those distances were: RWD Tahoe at 135.4 feet; 4WD Tahoe at 135.6 feet; and the Impala at 135.9 feet.

2016 VEHICLE REVIEW

Chevrolet

As mentioned earlier, there's not a lot of new info about the Chevy cruiser lineup for 2016, but the real news is about the past and the future of a couple of models. Chevy has announced the recall of 47,000 Caprices, years 2011 through 2013,

because of driver's seat belt hardware concerns. It seems that cables attaching the belts to the car can become damage or broken after extended use, jeopardizing an officer's safety in a collision.

As you are aware, the Caprice PPV is built by GM's Australian branch, Holden. Holden has announced they will close that factory in late 2017. This will not affect production of the 2016 models which is well underway now; however, GM will announce their plans for the next Caprice sometime in the future. It has long been rumored that production will move to the United States to eliminate the cost and time involved in the boat trip and to make replacement parts more readily available.

The 2016 Silverado SSV pickup which is built in Silao, Mexico, will be available with all of the Tahoe police package options GM announced. The trucks will be shipped to GM's upfitter, Kerr Industries in Arlington, TX, for the LE mods. Kerr also provides the cop car upgrades to the Tahoe PPV and SSV packages and has performed surgery on

the Caprices as well.

The 2016 Tahoe PPV will feature an Automatic Track Detect Mode which will automatically switch to a more aggressive setting for stability and traction control in pursuit situations. Also new for 2016 is a 4WD off-road package for the Tahoe SSV (only). OnStar will now be standard equipment on the new Tahoes. The bad news for Tahoe consumers is that the 2016 models have received a \$1500 (per unit) price bump.

Dodge

Fiat Chrysler Automobiles (FCA) is adhering to the proven philosophy, "If it ain't broke, don't fix it," with the 2016 Charger Pursuits. Hey, when you're leading in sales, you must be doing something right! Other than minor tweaks, the new Pursuits remain the same. The AWD option has proven popular for agencies north of the "rust belt" and most opt for the V-6 power plant as well.

Other LE options available from FCA for 2016 are the SSV Durangos and Ram 1500s. The Durango now has all electric

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steering technology and is available with two engine choices, the 3.6L V-6 or the 5.7L HEMI V-8, and in either RWD or AWD.

The Ram 1500 SSV is available in 4WD only and its reasonable price is comparable to the Charger.

Ford

The Chicago built Police Interceptors are gaining a following, particularly with Ford loyal customers. In fact, the PI Utility (SUV) is on track to outsell the Dodge Charger; although, it's a bit like the comparison of apples and oranges, as the Charger is the perennial cop car favorite – a four door, RWD, V-8 cruiser – whereas the Utility competitor is a V-6 AWD SUV.

The 2016 Utilities received some plastic surgery on the front and hind sides to differentiate them from their civilian Explorer cousins and the new grill does provide better cooling. As mentioned earlier, the Utility is now available in AWD only. Interior configurations have been improved for comfort and efficiency. The steering wheel was modified per requests



An unsurprising result is BMW being the fastest bike again this year at 137 mph (down slightly from last year).

from officers and is now a LE only unit with better placement of controls. Agencies which employ both the PI Sedan and Utility need to make note that the steel

rims are no longer interchangeable between the two. This applies to the Tire Pressure Monitor System (TPMS) as well.

A rear vision camera is standard on both the Sedan and Utility for 2016. A display in the center console is standard and a display in the rearview mirror is an option (no charge). The Sedan features a newly designed B pillar to aid entry and exit.

THE MOTORCYCLES

Manufacturers presented five motorcycles for testing this year at the MSP evaluations, down by two from last year. There were four two-wheeled bikes and one three-wheeler. The bikes put through the paces this year were as follows: the BMW R 1200 RT-P; the Can-Am Spyder F3; the Harley-Davidson® FLHTP Electra Glide® and the FLHP Road King®; and, lastly, the Zero DSP ZF 12.5 ABS.

The fastest bike of the lot again this year was the BMW, although the speeds were down a bit this time. It hit 137 mph (compared to 141 mph last year), but, still, it was the fastest of all the motorcycles

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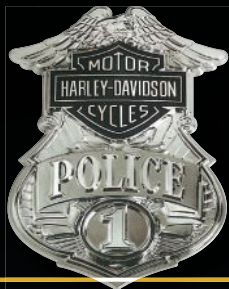


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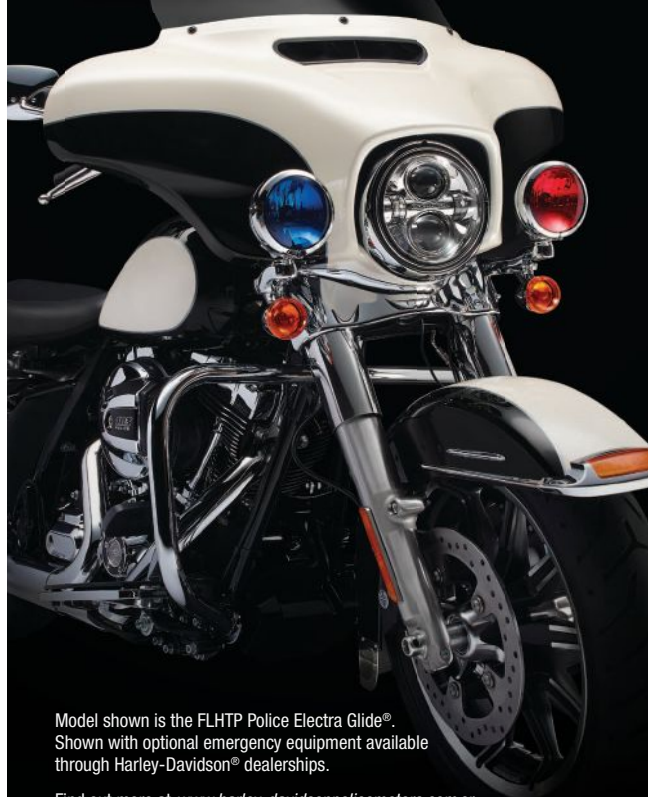
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THE WHEELS OF JUSTICE



The Can-Am once again recorded the shortest projected stopping distance – having two front wheels undoubtedly helps!

present. Second was the Can-Am Spyder at 121 mph and third was the Harley-Davidson Road King at 107 mph. The slowest unit there was the Zero with a top speed of 95 mph.


The time trials mirrored the top speeds, with BMW recording the best 0-60 times (4.42 seconds) and 0-100 (9.94 seconds). Second place goes to the Can-Am Spyder with 0-60 at 5.34 seconds and 0-100 at 14.83 seconds. Again, the H-D Road King was



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PUSH BUMPER ELITEXD

The Push Bumper EliteXD is made of heavy duty 4 gauge HRPO steel uprights to safely push another vehicle. It features 2-3/4" wide heavy-duty rubber strips on the uprights and a removable full punch plate grille. Uprights are pre-drilled for the addition of Elite Wing Wraps and PIT Bars. Pre-drilled holes provide side-mounting points for popular LED Lights. The Push Bumper EliteXD also features an extra wide 4-5/8" stylized and pre-drilled center cross-plate, a significant surface area for top-mounting of LED lights or speakers. All exposed fasteners are black plated stainless for protection against rust. The Push Bumper EliteXD designs are vehicle specific for a clean finished look.

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Harley-Davidson® made a number of enhancements to its 2016 line.

third at 5.47 seconds and 16.86 seconds, respectively. The worst also goes to the Zero with a 0-60 time of 6.89 seconds and no 0-100 since it topped out at 95 mph.

In the braking exercises, the leaders switched spots, with the Can-Am charting the best distance of 122.6 feet and the BMW at 137.4 feet. The Zero placed third with a respectable 139.7 feet. The

two Harleys posted the worst stopping distances, with the Road King at 148.8 feet and the Electra Glide at 28.3 feet further than the Can-Am at 150.9 feet, despite their ABS braking. The obvious explanation is that the two Harleys outweigh the others significantly.

Harley-Davidson Motor Co.

(www.harley-davidson.com)

Harley-Davidson was the only motorcycle manufacturer which provided data for this article. In addition to the two motorcycles tested, H-D also offers the XL883L Sportster for police duty. Over 3800 LE agencies in the United States now use Harley-Davidson motorcycles.

New for 2016 (on the two large bikes) is a reduced width primary housing and derby cover, reflex linked brakes with ABS, 49mm front forks, one touch hand controls and smooth passing power.



Code 3's new Defender® lightbar with QuadCore™ technology utilizes fewer parts and is easily customizable.

EMERGENCY EQUIPMENT

Code 3®, Inc.

(www.code3pse.com)

New from Code 3, who proudly celebrated their 40th anniversary last year, is their Defender® lightbar with QuadCore™ technology. The QuadCore light heads utilize a streamlined design which uses less parts for a maintenance-free operation and a new, more efficient heat sink which provides outstanding heat dissipation. Along with new light heads, a new central controller head provides an

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Also new from Code 3 is their Mega Thin™ light head which offers better off angle performance.

expanded variety of light patterns and is easily customizable by the user. Measuring a scant 2.25" tall, the Defender is available in a total of 11 different lengths.

Also new from Code 3 is the Mega Thin™ light head, a six LED ultrathin mount light head with multiple flash patterns and synchronization between units. The Mega Thin features curved end optics for better off angle performance and is available in solid and split colors, as well as a 12 LED multicolor.

Code 3 also introduced the 2-Pack Bullet Hide-A-Blast. This concealed LED warning light is designed to be used in headlights and/or taillights or where a small light is needed in tight spaces. The 2-Pack contains two high intensity three watt LEDs which deliver an exceptionally bright warning signal.

Westin Public Safety Division
(www.westinpublicsafety.com)

Westin, a push bar manufacturer, has partnered with Code 3 to offer a new LED Light Channel option for their Push Bumper Elite series. It utilizes the Code 3 Chase series LED lights. The push bars are available for the two Ford Interceptors, the Chevy Caprice and the Dodge Charger.

Whelen Engineering Company, Inc.
(www.whelen.com)

Whelen has introduced new designs in exterior vehicle lights. The Outer Edge® Rear Facing Super-LED® Upper Exterior Lights feature six Micron™ light heads and



Westin now offers a new option for their Push Bumper Elite series.

an all new service loop for easy configuration. Two independent powder coated housings mount easily to the rear spoiler with screws; each one supports three light heads. They are available for the 2015 Chevy Tahoe, the 2011-2016 Ford Explorer, and the 2013-2016 Ford Police Interceptor Utility and in red, blue, amber, and white.



Whelen has a number of new designs available for exterior vehicle lighting, such as these Outer Edge® Exterior Rear Lights which attach to the back pillars.

Available for the same vehicles and in the same colors, the Outer Edge® Super-LED® Exterior Rear Lights feature vehicle specific vacuum formed housings which conform to the back pillars of the vehicle; each housing supports three Micron light heads.

At over just 4" wide, Whelen's compact Micron Series light heads are designed for use in virtually any lighting application. The Stud Mount Micron allows for simple surface mount installation; they are available in single or split colors.

VEHICLE EQUIPMENT

These manufacturers will be presented alphabetically with a discussion of their new 2016 products.

American Aluminum Accessories, Inc.

(www.ezrideronline.com)

Inmate Transport Inserts, from American Aluminum Accessories, are lightweight and feature aluminum encasement in the interior and rear door guards; a secured driver cab; individual locking compartment doors; and a perforated center section for viewing prisoners. Other features include front emergency exit drop down windows for every compartment; nonskid prisoner seating; and lap style seat belts. Available for Ford, Chevy, Dodge, and other makes, the inserts can be transferred into like vehicles.

Datalux Corporation
(www.datalux.com)

Designed for use in and out of a vehicle, the Datalux TM110 features a sunlight readable 11.6" display and is powered by the Intel Core™ i5 or Core i7 processor. This durable tablet is only 3/4" thick; weighs under 2.8 pounds; and can withstand a drop of up to three feet. It can be configured with GPS for mapping and automated vehicle location. Multiple options include readers for barcode, RFID, and smart cards to facilitate rapid response times and streamline processes such as incident reports.

Digital Ally, Inc.
(www.digitalallyinc.com)

Recently launched, VuVault.com is a comprehensive video management system and complements Digital Ally's in-car audio/video systems. It is a complete Web-based evidence management system and brings the functionality of VuVault and many new features to the cloud by allowing video story boards, detailed reports, case

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management and redaction technology, as well as the ability to share and manage requests for video footage and cases with other officers or attorneys. Data storage options are offered by Digital Ally.

Gamber-Johnson, LLC
(www.gamberjohnson.com)

Gamber-Johnson has announced their vehicle docking station for the new Panasonic Toughbook® 54 laptop computer which enhances the expandability of the laptop. It features an insertable Smart Card port which allows it to be inserted and ejected while the laptop is docked in the station. Their new motion attachments complete their full line of vehicle bases, poles and console boxes to complete any vehicle mounting system.

Havis, Inc.
(www.havis.com)

Havis announced an addition to its series of docking stations designed and developed in partnership with Dell Inc. The DS-DELL-600 Series Docking Station provides a lightweight docking solution for the new Dell Latitude 12 Rugged Tablet.

The DS-DELL-600 Series Docking



Havis recently announced the addition of a new docking station for the Dell Latitude 12 Rugged Tablet.

Station is tested to comply with Havis standards which include 30 mph crash simulations per SAE J1455, military-grade vibration testing, hot/cold operation and storage testing, extensive cycle testing and compliance with RoHS regulations.

The Havis DS-DELL-600 Series for

the Dell Latitude 12 Rugged Tablet features recessed port replication designed to relieve strain and prevent accidental cable disconnects. Full port replication allows for complete connectivity to printers, scanners and other peripherals, with up to three fully powered USB 3.0 cables, one USB 2.0 cable, Ethernet, Serial, video VGA, and Display Port.

Kustom Signals, Inc.
(www.kustomsignals.com)

Kustom Signals has announced improvements to their speed detection systems and enhanced in-car video systems as well. The ProLaser® 4 has a patent pending certification warning which assists departments with certification management. The ProLaser 4 also has a new Bluetooth® handle option which can be paired with a portable citation printer.

Kustom's upgraded Raptor RP-1™ directional Doppler K and Ka band radar now has a patent pending Assisted Fork Test option which guides the user through the tuning fork test process and greatly improves the ease, speed and accuracy of the test by prompting the user as to which fork to ring.

New Vehicle-Specific Consoles

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Kustom Signals has a brand-new in-car video system – the Eyewitness HD.



The new PW6 In-Car Video System from Patrol Witness™ features a wide-angle camera – the PanCam.

Kustom has added new features to their second generation LaserCam® 4. It features Wi-Fi file transfer; video; and a new customizable Photo Mode for flexible and efficient evidence management, as well as an infrared emitter for superior nighttime operation.

Eyewitness HD is the newest in-car video system from Kustom. It features a seven inch tablet with an intuitive touch screen controller and can interface with your MDC as an alternative to the tablet. The tablet display eliminates any confusion about which cameras are recording.

Lenco Armored Vehicles (www.lencoarmor.com)

The Lenco MedEvac® was designed to meet the requirements of LASD SEB and tactical EMS teams. This model can be used as an armored response and rescue SWAT truck for dangerous call-outs and is equipped to provide tactical EMS with a safe and effective environment

to deal with trauma cases. The BearCat® MedEvac is longer than their standard model to allow the two wall mounted litters to be secured to the bench seats, while still having room to utilize the roof hatch and gunner's stand. There are two onboard Jumbo-D oxygen tanks with a lighted workstation, a radio compartment workstation and ample interior compartments for medical supply and gear storage.

MNSTAR Technologies (www.mnstar.com)

MNSTAR Technologies has a new dual stage timer, the MT28, with 60 amps of load and eight fused outputs to serve your vehicle's electronic needs. Indicator LEDs provide simple diagnostics, programmable delay settings and voltage sensing to protect your vehicle's battery. The MT28 can be used as a stand-alone timer/fuse panel or with any of MNSTAR's harness systems.

Patrol Witness™ (www.patrolwitness.com)

Patrol Witness is 247Security's dedicated line of digital video solutions for law enforcement. New this year to the Patrol Witness lineup is the PW6 In-Car Video System which includes JUST IN CASE

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Recording, a feature which allows agencies to retrieve untriggered video events from the previous five shifts, even if the officer forgot to trigger the event.

The PW6 also offers its PanCam wide-angle camera which mounts behind the rearview mirror. The PanCam is capable of capturing a large field of view without user intervention, providing legible license plates across three traffic lanes, and delivers an ultrawide-angle close-up view in the front of your vehicle.

This system provides up to 1080 HD resolution and automatic wireless uploading to agency servers.

Printek Mobile
(www.printek.com)

Printek Mobile's new VehiclePro 400 mobile thermal printer is the only printer designed specifically for police, EMS and fire applications for ticket printing, rip and runs, patient information and more. It is designed to install directly into a vehicle's dash or console quickly and easily. The



Pro-gard has recently added SUV Storage Drawers (which are custom designed) to their line of vehicle products.

easy to read control face and simple drop-in paper loading makes operation and maintenance very simple and reliable.

Pro-gard Products LLC
(www.pro-gard.com)

Pro-gard has been cranking out "officer friendly" products for over 45 years and they recently announced three new additions to their lineup. Transporter Front Seat Covers are available for all the popular police package vehicle front seats.



The ICOP® PRO in-car video system from Safety Vision features compact components.

They are manufactured from heavy strength, nonporous ABS which is curved to match the contours of the OEM seats. They install in minutes, can be easily removed and work with OEM restraints. The seat covers provide a barrier against spills and body fluids which might otherwise soil and soak into the seat and are ideal for vehicles which do not have prisoner partitions or seating. They also eliminate gaps and crevices where contraband can be hidden while facilitating better seating for prisoners who are handcuffed behind their backs.

Outboard Seat Belts eliminate the hazardous situation created by the need for an officer to lean across a prisoner to restrain them in OEM seat belts. The Outboard Seat Belts are used with Pro-gard's Prisoner Transport Seat to make a safe, reliable transport system.

Pro-gard has added SUV Storage Drawers (for the PI Utility and Tahoe) to their storage and organization line of products. These custom designed, specific fit units are made of lightweight aluminum and utilize the spare tire well and load floor of the popular SUVs.

Safety Vision, LLC
(www.safetyvision.com)

Safety Vision has over ten years of experience providing LE with in-car video solutions and video management software. Their latest product is the ICOP® PRO in-car video system which features compact, but robust, components which are specifically designed to complement (not complicate) an officer's duties. Their advanced digital video recorder is easily installed into any console or anywhere else in a vehicle. The power control monitor is used to start and view recordings and features an innovative "mark" button which allows critical events to be flagged for future review.

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The new Stand Alone OEM Replacement Prisoner Transport Seating System from Setina provides maximum rear passenger legroom.

Setina Manufacturing Co., Inc.
(www.setina.com)

New this year from Setina Mfg. is their Stand Alone OEM Replacement Prisoner Transport Seating System. Designed for

critical rear seat occupant body placement, this new rear seat provides maximum rear passenger legroom and features quick and easy installation. It features a Center-Pull Seatbelt System which attaches to the strongest points of the vehicle, with retractors concealed within a TPO polymer seat assembly to prevent tampering. The system also eliminates the need for the officer to reach across the suspect when seat belting, significantly reducing officer contact with the rear seat occupant.

Another new item is their Easy-Lift Cargo Deck which replaces a vehicle's factory rear compartment deck. The three piece design allows for quick, easy installation, as well as a rear locking hatch which is engineered to be easily removable to access the lower radio tray and spare tire.

SoundOff Signal

(www.soundoffsignal.com)

New from SoundOff Signal is bluePRINT®, their patented control system



Another brand-new product from Setina is their Easy-Lift Cargo Deck.

which automates emergency lighting and siren performance functions. Currently, officers have to determine which buttons and switches to activate while driving. The new bluePRINT system allows the officer to sound the air horn, flash headlights bright, activate lighting from the lightbar, or activate other emergency functions, all by simply pressing the horn.

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TASER recently made big headlines with the announcement of their Axon Fleet in-car video system.

TASER International, Inc.
(www.taser.com)

TASER International, Inc. recently made waves with their announcement of an ultralow cost (\$500) HD in-car video system, the Axon Fleet. This new system offers advanced functionality and includes two cameras which feature a wide-angle lens and HD video for both the front window and rear seat area.

The Axon Fleet incorporates Axon Signal technology to automatically activate during critical situations – turning the camera on with lightbar, TASER and other sensor activation and provides a preevent buffer for up to two minutes. Wireless Offload allows video uploads to the cloud via Wi-Fi or the Axon Dock, utilizing the Evidence.com data management and secure storage system.



Tuffy's new Heavy Duty Gear Drawers feature their patented Pry-Guard II locking system.

Tuffy Security Products
(www.tuffyproducts.com/psn)

Designed for both organization and security, Tuffy's Heavy Duty Gear Drawers are weather-resistant and feature the patented Pry-Guard II locking system which incorporates a 1/4" thick steel security latch. Unlike similar products on the market, this type of latching system secures the drawer shut while operating the vehicle without the need to lock and unlock the drawer every time access is needed. The drawers open smoothly with a slide system which incorporates eight precision stainless steel roller bearings per drawer.



New this year from WatchGuard Video is their Panoramic X2 HD camera which features "pillar-to-pillar" coverage.

WatchGuard Video
(www.watchguardvideo.com)

One of the many new items available from WatchGuard Video this year include their Panoramic HD camera, now available with the 4RE® in-car video system. This new camera dramatically expands video coverage with the addition of its exclusive "pillar-to-pillar" Panoramic X2 HD camera, more than doubling the field of vision. The system integrates two cameras: a fixed panoramic camera capturing the widest single camera view available on the market and a primary camera, providing the maximum details of a normal coverage area with a turret lens which may be aimed as needed. In addition, new 4RE firmware automatically uploads the panoramic camera stream only when needed.

Officer Safety

Last, but certainly not least, we'll conclude this column with a brief discussion about officer safety and introduce you to two new products specifically engineered with that in mind.

We are all acutely aware of the current "war on cops" in America as declared by some militant groups. Police assaults and homicides have risen dramatically all across this country and wanton disrespect for "America's Finest" is rampant. We have previously reported on Ford's response to this issue by forthcoming technology which will alert Interceptor occupants of persons approaching from the rear blind spots as occurred in the assassination of two New York City officers. The system warns the officer(s) and rolls up any open windows and locks the doors, giving the officer(s) a few second advantage to protect and defend themselves.

Two other companies have now stepped up to help protect our officers as well. Angel Armor (www.angelarmor.com), a military contractor, has developed a line of ballistic door panels for the Chevrolet Tahoe and Suburban. The panels boast of a quick installation with no removal of the OEM door panels. They are cost-effective, durable, lightweight and weatherproof, while providing multiround and special threat protection.

Hardwire, LLC (www.hardwirellc.com) is another established military contractor and they have developed Transparent Armor Window Inserts, also for the Tahoe. These install in minutes inside the OEM front door glass and provide officer protection from handgun and shotgun rounds from the B pillar forward to the outside rearview mirror, while the OEM windows remain fully functional. The portal (at the mirror area) allows an officer to safely return fire from inside the vehicle.

It is sincerely hoped these two companies will expand their protective product lines to cover other police vehicles ASAP. **P&SN**

Compact Weapon Mounted Lights for SWAT

Eugene Nielsen



Adequate light is essential to identify; evaluate; and, if necessary, engage threats. Unless operating covertly with night vision, a powerful white light is essential. You cannot fight what you don't see.

There are many factors which need to be considered when choosing a quality weapon light. The light must be both rugged and reliable. It needs to provide the necessary output and beam configuration to locate and identify potential threats at anticipated engagement ranges. It must offer ergonomic switching which allows it to be operated without significantly altering the grip on the weapon. It must be compact and lightweight.

This article will take a brief look at three field proven, ultracompact, white light only LED weapon lights designed for close- to medium-range applications. These lights are ideal for CQB in scenarios when IR illumination capability is not needed or desired. All of these lights take up minimum rail space.

Optional or aftermarket offset mounts are available for an even more compact profile – examples include the SureFire® RM45 Offset Rail Mount for the SureFire M300 Mini Scout Light® and the Haley Strategic Partners Thorntail Offset Mounts.

Although many operators mount pistol

lights on their long guns for these applications, we will limit our selection to weapon lights designed specifically for use on rifles, carbines and submachine guns. This is not to denigrate the use of pistol lights on long guns. They are a popular option for good reason. Weapon lights such as the SureFire X-Series and the Streamlight® TLR Series, for example, are designed for both pistol and long gun applications. Optional pressure activated tape switches are available for both series from the manufacturers.

All of the lights in the article have proven themselves under the harsh rigors of actual combat. They are great weapon lights for most SWAT applications and for use by personal security details.

In general, a weapon light which is intended specifically for indoor and close quarter applications should have a moderate output wider beam; i.e., a flood-based beam. This type of beam maximizes peripheral awareness and minimizes "splash back" (light bouncing back to your eyes) from reflective surfaces. More output also generally requires more power which results in diminishing run

time with the same number and the same type of batteries.

Although it is generally better to have more light available than less, the desired maximum output will depend on the maximum expected range of engagement, as well as size, weight and run time considerations. And, output doesn't tell the whole story. Beam pattern is of utmost importance. Because all engagements are not close quarters, a beam with both ample reach and sufficient spill for peripheral awareness provides maximum versatility.

For mid-range or longer applications, a higher output, more spot-based beam is essential. It will throw maximum light downrange, increasing the reach, allowing for longer-range target identification and greater standoff distance. This is essential in lights to be used for patrol rifle applications.

All of the lights in this article are powered by 123A three volt lithium batteries which are the optimal choice for a compact weapon light. They pack a lot of power into a small package and offer numerous advantages over alkaline batteries. Either disposable or rechargeable

COMPACT WEAPON MOUNTED LIGHTS

123A lithium phosphate batteries may be used.

Rechargeable batteries can result in considerable cost savings over time, depending on usage. The run time of rechargeable batteries is approximately 50% less than provided by disposable 123A lithium batteries, although maximum output levels are typically not affected.

While rechargeable batteries are great for training, I do not recommend them for

critical applications. For the latter, stick with quality US made disposables, such as the excellent SureFire 123A lithium batteries. These batteries are optimized for high drain applications, such as weapon lights, and (in my opinion) offer unbeatable performance. Also, never mix batteries.

This article is not a product review per se. The information and specifications in the article were provided by the manufacturers.



Compact weapon lights, such as this SureFire® M300 Mini Scout Light®, are ideally suited for close quarters to mid-range applications.

SureFire M300 Mini Scout Light (www.surefire.com)

Since coming out with the first weapon light in 1986 (which was a novel concept at the time), SureFire, LLC has continued to set the standard by which weapon lights are compared.

Now available in 11 different models, the SureFire Scout Light is one of the company's most popular WeaponLights. For close- to medium-range applications, the SureFire Mini Scout Light is a tough little light to beat.

The newly upgraded SureFire M300 Mini Scout Light is a powerful, lightweight LED WeaponLight which mounts securely to any MIL-STD-1913 Picatinny rail via an integral thumbscrew clamp. It is powered by a single 123A lithium battery. The M300 Mini Scout Light's LED has been upgraded to 300 lumens of tactical level light. The upgraded light maintains the same ultracompact light weight of its predecessor; measures just 4.1" in length; and weighs in at only 4.8 ounces (with battery).

Focused by a proprietary TIR (Total Internal Reflection) optic, the M300 Mini Scout Light provides plenty of reach for mid-range applications and enough surround light for close quarters.

Activation of the M300 Mini Scout Light WeaponLight is accomplished by the ergonomic tail cap pushbutton switch. An optional pressure activated tape switch is available.

The Mini Scout Light was built to withstand the rigors of combat without weighing down your weapon. It is constructed of MIL-SPEC hard anodized aerospace aluminum with an optically coated tempered window, O-ring and gasket seals. The MSRP is \$299.

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The Elzetta Mini-CQB Weapon Light includes a 1-Cell Base Unit with a CQB bezel, a 375 lumen Alpha LED Module and can be configured with a choice of mounts and tail caps.



The INFORCE® WML™ White produces 200 lumens of penetrating light with a tight beam for close- to mid-range applications and balanced peripheral light for discernment of the surrounding area.

Elzetta Mini-CQB Modular Weapon Light (www.elzetta.com)

Elzetta Design, LLC was founded in 2007 by two mechanical engineers with the goal of creating world-class tactical lighting systems. The company's name is in memory of one of the founders' grandmothers, Elzetta Mae Smith.

Modularity was one of the key design goals at Elzetta. All components are interchangeable, interoperable and available individually, so clients can easily change/modify/upgrade Elzetta Modular Flashlights without being forced to buy complete new units.

Elzetta has recently announced its collaboration with Impact Weapons Components in developing the new Mini-CQB Modular Weapon Light. Based on Elzetta Alpha technology, the new Mini-CQB delivers 375 lumens of diffuse light in a beam pattern optimized for CQB engagements.

The Mini-CQB is available with any of six tail caps (rotary, click, alpha high/low, high/strobe, or tape switch with a 5" or 12" cable). It is also available with two ambidextrous attachment mechanisms: MIL-STD-1913 Picatinny or KeyMod/M-LOK™.

The KeyMod/M-LOK system fits both mounting systems by utilizing the (patent pending) reversible nuts in one direction for KeyMod and flipped for M-LOK. The Mini-CQB measures 3.9" and weighs 4.3 ounces with a MIL-STD-1913 Picatinny attachment system.

The Mini-CQB Weapon Lights join the Elzetta Alpha, Bravo and Charlie Modular Flashlights which the company refer to as "The Toughest Flashlights on the Planet," featuring fully potted electronics and solid acrylic optical lenses (no reflectors). All exterior components of Elzetta are made from MIL-SPEC Type II hard anodized 6061-T6 aluminum.

The Mini-CQB Weapon Lights start at \$210.

INFORCE® WML™ White Multifunction Weapon Mounted Light (www.inforce-mil.com)

The INFORCE brand of products is manufactured by Emissive Energy Corporation. For over 22 years, the company has designed, engineered and produced optoelectronic systems for military, law enforcement and federal agencies.

The INFORCE WML White produces 200 lumens of penetrating light with a tight beam for close- to mid-range applications and balanced peripheral light for discernment of the surrounding area. It features momentary and constant modes, plus a strobe which is easily disabled with a simple sequence.

A new lever function provides the ability to switch between momentary only and full function modes. The light has an angled activation button which is comfortable to operate without the

interference of wires or tape switches. Its power is provided by a single 123A lithium battery; the head removes for battery replacement.

Two distinct, easy to operate lockout systems are incorporated to avoid accidental discharge – a primary safety lever which protects the angled activation button and a secondary lockout by rotating the head.

The WML has an ultralight and durable fiber composite body. Patented heat releasing vents maximize LED performance and keep the light cool. It has a high impact window and is waterproof to 66 feet MIL-STD-810G certified. The light is 4.1"

in length and weighs only three ounces.

The WML features an integrated, patent pending, rail clamping system which is compact, convenient and secure. No tools are required for installation.

It is available in either graphite or flat dark earth. It has an MSRP of \$150.

So, there you have it. Three great ultracompact weapon lights for close quarters applications. The best light for you will depend on your specific anticipated mission requirements and, of course, personal preferences and budget. **P&SN**

Eugene Nielsen is a private consultant and a former police officer.

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The Basics of Selecting and Issuing Body-Worn Cameras

Part II of III



John G. Peters, Jr., Ph.D.; Lt. Charles Wilhite, J.D.; & Lt. James LaRochelle

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Some government decision makers are responding to community pressure concerning transparency and accountability by urging law enforcement administrators to quickly purchase and issue Body-Worn Cameras (BWCs) to their officers without considering all of the ramifications of such an adoption. While research has shown BWCs can reduce citizen complaints and has other positive effects, a systems approach will help to identify critical preimplementation, implementation and postimplementation issues. These issues include, but are not limited to, camera specs; storage issues; storage costs now and in the future; training; and policy development. Policy will be discussed in Part 3 of this series.

Arguably, no other technology in the past 100 years of policing has been deployed so rapidly, extensively and with potentially greater positive and negative impact than BWCs. Many agencies have been hurled into the BWC implementation process because of the events of the last 18 months. This rush to put cameras on officers has presented a host of challenges which can lead to costly mistakes

and waste of resources if the agency focuses solely on procurement, policy and deployment without giving the entire implementation process careful thought. BWC implementation is a complex endeavor – regardless of the size of the agency. Presumably, smaller agencies will find the task somewhat more manageable compared to the challenges faced by larger agencies, but the task can be daunting without proper planning. The following are some of the more critical implementation considerations.

As discussed in Part 1 of this series, an agency's organizational culture (officially stated versus practiced) is being documented the first day a camera is placed on an officer. Is what the camera captures a true reflection of the agency? Administrators need to conduct a thorough appraisal of the organizational culture to identify those areas which need immediate attention; develop a plan to address these shortcomings; implement a course of action to improve and/or correct them; and then evaluate the corrective progress throughout the implementation process.

Formal Planning

If a detailed plan has not been developed, throwing darts at a wall containing pictures of BWCs may be more effective. Formalized planning for the procurement, deployment and management of a BWC system is absolutely critical for success – regardless of agency size. The failure to plan will cause costly mistakes. To maximize success, place one person in charge of the process; preferably, someone with project management skills. If a project manager is not available, there is often "that person" in an organization who seems to get the job done regardless of the challenges. Support this person with a multidisciplinary team of folks from all internal and external disciplines who will affect positive outcomes. Building a stakeholder teamwork approach and understanding of the challenges will pay dividends throughout the process. The first stop for any project manager is the Bureau of Justice Assistance's National Body-Worn Camera Toolkit available at <https://www.bja.gov/bwc/>. This is an absolutely essential source of valuable information concerning all aspects of implementation.



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BWC Policy

One critical task and major challenge is the writing of a comprehensive BWC policy. A strong policy is the foundation which supports and impacts a myriad of other aspects of the agency's BWC program. A weak or incomplete policy can enhance liability. For example, when is an officer permitted to "turn off" his (or her) camera? Policy not only directs how officers should utilize the cameras, but also impacts areas such as retention, storage solutions and the dissemination of recordings in compliance with public records laws, to name just a few.

Each agency will have to develop its policy to meet its unique requirements. The BJA Toolkit provides recommendations on a structured policy outline. Policies from other agencies can be reviewed, but they should only be seen as illustrative. Avoid the temptation to "cut and paste" sections about activation,

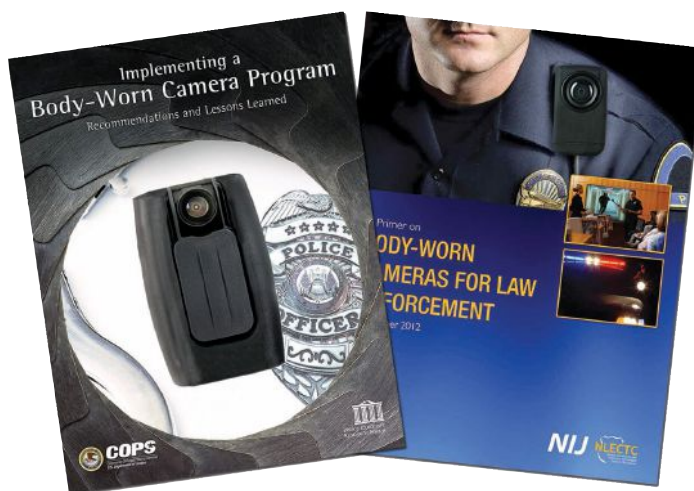
deactivation, retention, special circumstances and locations, officer involved shootings, public privacy and dissem-

ination. These are the areas where an agency will face the most public scrutiny.

One agency, for example, may permit officers to watch BWC video *before* writing reports, whereas another agency may not permit this practice. Some agency administrators and legal advisors recommend having officers write their reports from memory, then watch the BWC video and then write a supplemental report which identifies any changes in recollection after watching the video. *Transparency* is important during this process. Defendant and/or plaintiff lawyers will attack the reports, regardless of how and when they were written, but being transparent from the beginning will help to minimize the attack.

Testing, Selection and Procurement

Another early and critical task faced by the project manager will be the testing, selection and procurement of the BWC system. There are many BWC vendors. Choose the best four to six cameras which meet the desired agency selection criteria. Get these cameras into the hands of select officers who will conduct rigorous testing of them in the field. Have an evaluation plan in place so that the officers are looking at those key product criteria. This testing should take place over a number of months which can be challenging when there is external pressure to get cameras fielded rapidly. However, administrators must remain firm. The selected BWC system is the largest cost of a BWC program. Accelerating this step for the sake of expediency is not being fiscally responsible which could result in the purchase of an inadequate product and/or fail to identify future operational requirements.



The BJA's National Body-Worn Camera Toolkit provides a myriad of valuable information and resources.

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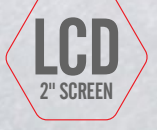


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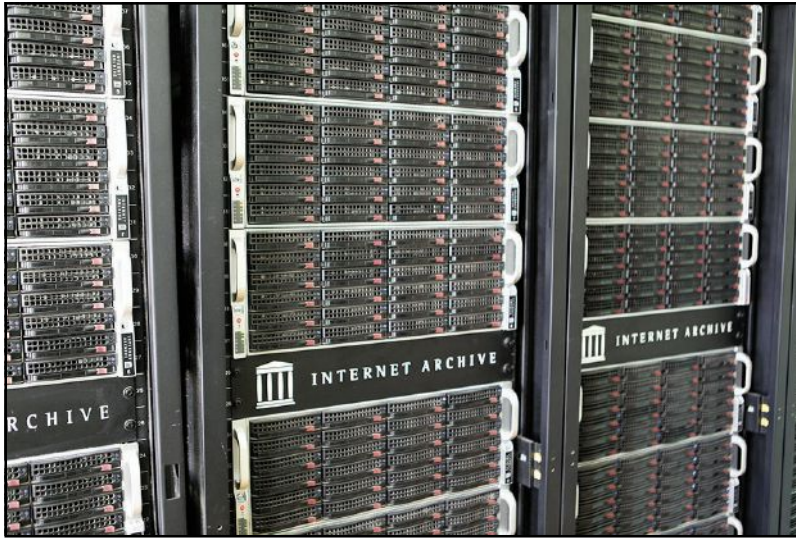
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Storage solutions and content management are as important (if not more so) as choosing camera systems during the selection process.

While officers are conducting field-testing, the project manager must review the storage solutions and content management software of each system. Talking to managers in other agencies about their experiences and satisfaction with potential selections may reveal other issues. While the initial purchase of BWCs may stretch budgets, storage costs may exponentially increase and run into the millions of dollars.

Storage and the Future

Data storage concerns – now and in the future – will require the project manager and

other decision makers to become *futurists*. How much data will be stored and for how long? What happens to the data and to costs if vendors or initial storage plans are changed?

Agencies need to consider looking at internal server solutions. If the municipality has a robust Information Technology (IT) department, this may be a good choice. Data are kept in-house and not stored in foreign places. Up-front costs may initially be higher, but the systems will eventually pay for themselves and may be configured for other storage needs which can't be met

by a cloud solution.

In contrast, cloud storage may be the preferred option when large amounts of data are projected to be stored. Negotiate a favorable contract and take into consideration future storage needs. Request information from the vendor about its cloud security compliance, redundancy and physical storage locations worldwide. Give some thought to a future change of providers as the agency requirements evolve and storage costs adapt to the market. What would the plan be to migrate data to a new provider and how would it be done? This may impact the choice of your initial provider.

What if three years after deployment of BWCs a decision is made to change storage vendors? How will the data be given to your municipality? Will it come back in "1s and 0s"? How will it be guaranteed that all data were returned when data were stored in several different locations? These are important questions which need to be asked *before* it becomes an issue.

Finally, conduct an exhaustive review of the content management software provided by the vendor. The program is more than just a database of videos. The ability to edit, redact, share, audit, manage, conduct basic content analysis and analytics are essential components of the software supporting the system. There is a lot of ongoing development in this competitive area. Remember, this is the command center of any BWC system and it must have a robust set of features to support the management of the recordings.

One last note in the area of system selection: Smaller agencies should also consider the possibility of an "à la carte" system solution. Hardware, storage and software all provided by different vendors may be more fiscally practical. The challenge here is to ensure system compatibility and ease of integration.

Data Review = Real Time

It has been estimated that, for every 100 BWCs which are put into the field, it will take one full-time person to review the recordings. Reviewing ten minutes of recordings requires ten minutes of time (real time). Additional personnel and the associated costs must be factored into BWC program costs. While specific agency costs will vary, someone will need to review and retrieve the recordings for



How Tampa Bay Law Enforcement Officers Use Selfies to Solve Crimes and Connect with Communities

In the Tampa Bay, Florida, area, law enforcement officers are using social media for crime fighting purposes. Most recently, officers identified teenagers who broke into homes and stole jewelry and, subsequently, posted photos of it. Social media platforms such as Facebook, Twitter, YouTube, Instagram, and even Periscope have given investigators a powerful new tool to combat crime and have also created a new, unfettered line of communication between police agencies and the communities they serve.

A copy of the full report can be found at <http://tinyurl.com/ndj8nor>.

NEWS

criminal or civil litigation, media requests and similar events.

Training Issues

Training officers in the use of the selected camera system is extremely important and cannot be understated. Officers must be trained before cameras are deployed and that training must be competency-based. Besides initial training, consider annual recertification training, training for supervisors upon promotion and management training. The importance of training to any BWC program is discussed in more detail later in this article.

BWC Deployment Issues

BWC deployment must be planned, too. Smaller agencies may be able to deploy all of the authorized cameras at one time. Larger agencies may have to do it in phases. Regardless, it is important that the agency keep the community apprised of its plans. This will be much easier if community and government leaders have been involved throughout the planning process. For example, phased deployments should be made after considering



Like other types of instruction, training in the proper use of body-worn cameras will likely be the subject of future litigation.

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a host of local factors such as, but not limited to, community recommendations; areas of operations generating more complaints or uses of force; and special operating areas such as nightlife districts. Communicate this to the community and expect a healthy debate if community expectations are not in line with agency deployment plans.

This is also a great time to engage the media in promoting the agency's cameras and their deployment. Every local news outlet is following the BWC story with great interest. Consider hosting a media day at the beginning of the deployment. Invite media representatives and let them see and operate the cameras. Explain agency policy in detail, recording management, storage and dissemination procedures. Role-play scenarios which demonstrate the difference in perspective from an officer's point of view and that of a bystander with a cell phone. This effort with the media will pay dividends for the life of the program; will build a foundation of understanding with the media; and will help educate the community on the realities of what BWCs can and cannot do.

Postdeployment Management Issues

After deployment, BWC managers have a number of essential responsibilities managing the BWC program. Among the most important are policy oversight, enforcement and compliance. BWC policy, as with other policies, must not be viewed as a "project," but as a "process." BWC policy must be constantly monitored to ensure that it is revised based on relevant national and local best practices, internal "lessons learned," community input and court rulings. BWC and collateral BWC policies must be reviewed and revised on a regular basis throughout the first year and as needed following BWC deployment. Policy without enforcement becomes *only* words on paper. Agency managers and administrators must develop systems to ensure that officers adhere to BWC policy, especially in the area of activation compliance. Compliance may also be impacted by existing Collective Bargaining Agreements (CBAs).

Content management software can assist immensely in this area. Vendors are



Additional personnel may have to be factored in when considering reviewing recorded videos.

working to ensure that their systems can integrate with other systems. The public expects officers to use BWCs according to agency policies. Agency credibility is negatively affected when this does not happen. Audits conducted through the content management software help to identify and manage compliance requirements.

First line supervisors play an important role, too. They should be involved in reviewing video about use of force and other high profile incidents, citizen complaints, identifying policy and/or performance problems. Their review of recordings beyond these areas should be carefully considered and limited and must comply with CBAs. Each agency will have its unique perspective on this, but caution is advised.

When misconduct is identified through review, audits, the citizen complaint process and/or other review processes, it must be handled proportionally by the agency. Consider handling lesser BWC policy violations with a goal of correcting behavior which may be more a result of adapting to new technology than of blatant disregard for policy. On the other hand, willful and malicious failure to record or tamper with recordings should be dealt with quickly and firmly. Again, the public expects no less. To do nothing or very little would strike at the core of the purpose of BWCs.

Dissemination of BWC Recordings

Dissemination of BWC recordings is another "hot button" issue. Many state laws have yet to catch up with this subject. Administrators find themselves trying to adhere to laws which reflect requirements and processes for dissemination

of paper documents rather than video. Some states have dealt with this question by enacting laws which run the gamut from full disclosure to disclosure only under a lengthy number of criteria. Either position may not meet the public expectation of accountability. Negative impact may ultimately affect the judicial process, privacy and operations. BWC best practices are likely somewhere along the disclosure continuum. The challenge for administrators – in the absence

of thoughtful state law – is to balance disclosure against often emotional public demands for full disclosure. Municipalities will find themselves in the unenviable position of being guardians of public privacy and will undoubtedly take criticism, no matter how it has been handled.

There are some things administrators can do to mitigate the challenges. In most cases, simply defaulting to state law will not be enough because it could lead to negative consequences if the law is flawed. Making the agency dissemination process open and public will serve to educate the public and reinforce a sense of transparency. Clearly state what information will, and will not, be released, with noted exceptions such as ongoing investigations. Creating steps in the dissemination process which minimizes impact on agency resources saves time and money for citizens and guards against the unintentional release of recordings where there is an expectation of privacy are absolutely essential. Don't wait until after the first BWC has been deployed to begin thinking about public records acts compliance or similar requests. Make this part of the initial and ongoing planning process.

Finally, administrators and BWC project managers must consider where BWC technology and its recording by-products are going. Failure to do so may eventually impact the agency in a number of resource areas and place it in a position of playing catch-up. Camera and recording technology are constantly changing and improving. One only needs to look at the exponential growth of technology over the past five years to see what is coming. BWCs which are smaller,

better, cheaper, and with enhanced capabilities are coming. Storage costs will most likely drop, but costs overall may increase because more data will be stored. Content management and use of recordings for other purposes than police accountability are already topics of discussion. Video content analytics, crime analysis integration and individual officer performance optimization through processes such as biometric monitoring are already on the horizon. Agencies would be well served by keeping a watchful eye on these developments, planning for them and becoming a vocal part of the discussions.

BWC Training

There is no established law in regards to BWC training. It is likely, however, that training conducted in the proper use of BWCs will be the subject of future litigation. Government entities may be liable under 42 USC §1983 if they fail to properly train employees and that failure to train amounts to “deliberate indifference to the rights of persons with whom the [untrained employees] come into contact” (*Canton v. Harris*, 489 U. S. 378, 388 [1989]). Whether or not a failure to train amounts to deliberate indifference is a question a judge or jury must answer based on the evidence presented. For this reason, it is imperative that agencies maintain thorough written records related to training on department policies, lesson plans, testing, etc. concerning proper use of BWCs.

The courts have always had an affinity for the written word and generally oral evidence will not be admissible to contradict the contents of a writing (e.g., California Evidence Code §1523). The importance of good policies will be discussed in the final article in this series. Courts, however, have found that departments must properly train their employees concerning those policies to avoid liability (*Munger v. City of Glasgow*, 227 F.3d 1082 [9th Cir. 2000]). Courts have also indicated that written training documents and records of course attendance can be used to show that the agency was not deliberately indifferent in providing training. The involved officers, however, must be able to testify that the training actually presented matched that in the training documents (*Paul v. City of Altus*, No. 96-6376 [10th Cir. 1998]).

Competency-based Training

BWC training (like all law enforcement training) is grouped under Career and Technical Education (CTE). Lesson plans

must be in writing to describe and document what was taught. The lesson plans must not be topical outlines because they do not describe *what* was taught.

The content of the BWC lessons must be accurate, relevant and in alignment with agency policy, procedures and rules. Lessons about how to wear the camera; where it is to be located; and when it is to be activated, paused, and turned off

are required topics. Other topics include, but are not limited to, acceptable behavior when the camera is “on”; how to download the data; how often the data must be downloaded; what recordings are not permitted; what data can be released to the public; what data are to be redacted (blurred) and the guidelines to be followed for these decisions; plus other relevant topics and information. Rules about

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TruPulse® Tactical: An Outstanding Laser Rangefinder for SWAT with Onboard Ballistics

**INDUSTRY
NEWS**

Laser Technology, Inc. (LTI) has recently announced the release of the TruPulse Tactical Laser RangeFinder (LRF). It replaces up to four devices to provide a quick and accurate ballistic solution for SWAT, sniper and spotter operations. The TruPulse Tactical LRF is pocket-sized, rugged and waterproof and offers seven power superior optics. The Tactical's onboard measurement sensors eliminate the need to determine range, tilt, temperature and altitude with multiple devices – those values are automatically entered into a ballistic calculator. This measured environmental data is then combined with a user-specific weapon and cartridge combination to instantly calculate and display the custom ballistic holdover value right in the scope. Officers can select from the following holdover options: milliradians, minutes of angle, inches/centimeters and shoot to range or bullet drop compensator.

What makes the TruPulse Tactical unique is that an officer does not have to engage in lengthy measurement and calculation periods if they need to switch weapons. The laser's onboard firmware provides instant access of up to five custom weapon and cartridge profiles. SWAT team members carrying three different weapons can program the Tactical to contain all three for quick selection. The ballistic information about specific weapon and cartridge profiles can be entered manually or can be quickly uploaded using the Tactical Interface Software program. If an officer needs to make an adjustment to the profile in the field, they can manually enter the information in the unit. These field adjustments can be downloaded from the Tactical into a master library of weapon profiles with the interface software.

For more information about the TruPulse Tactical, visit www.lasertech.com.

reporting broken or lost cameras are also important unit lessons.

BWC training must be designed to develop officer competency about camera usage, including collateral tasks such as downloading of data, redacting information, etc. It will be difficult or impossible to discipline officers who violate policy, etc. unless training about these and other important topics is first completed.

Competency-based Testing

Attendance in class **does not** equal competency. Officers' competencies about their use of BWCs must be objectively measured to accurately determine if they are competent to perform the camera tasks. This will require an assessment in each learning domain: cognitive, affective and psychomotor.

Cognitive domain testing is often done with pencil and paper tests or online testing. The assessment focus might be on agency policy, procedures, rules, labeling the parts of a BWC, etc. Assessing affective domain behavior is often done through role-playing. Psychomotor domain testing is done by requiring officers to correctly demonstrate camera tasks (e.g., proper wearing, downloading data, etc.). Each competency is graded using a predeveloped rubric which is based

upon a quantitative performance objective or measure. Unless the trainer can demonstrate objective and quantifiable testing in each learning domain, the governmental entity will be unable to prove competency-based testing or that the officer was competent to use the BWC.

Summary

Selecting and issuing BWCs is not a simple task. In fact, it is a complex project which involves diverse groups of individuals and topics: training, legal, vendors, supervisors, etc. There are few times in one's career where what is happening is truly "pioneering," and BWC adoption can be said to be one of those times. Therefore, it must be done well. As Steven Covey noted in his text on the habits of successful individuals, begin at the end. In other words, what are the desired outcomes of adopting BWCs? Identify the outcomes, and then reverse engineer how to get there by developing a sound and logical BWC selection process, policy, competency-based training, and auditing process. In Part 3 of this series, policy development and associated issues will be discussed. **P&SN**

John G. Peters, Jr., Ph.D., serves as President of the internationally recognized training firm, Institute for the Prevention

of In-custody Deaths, Inc. (IPICD). A judicially qualified expert witness, he has testified in federal, state and international courts. The author of more than 250 publications, his publications include Defensive Tactics with Flashlights, Tactical Handcuffing for Chain- and Hinged-Style Handcuffs, Official Kubotan® Techniques, and Realistic Defensive Tactics.

Lt. Charles Wilhite, J.D., works for a large Southern California sheriff's department. An attorney licensed in California, Lt. Wilhite serves as Director of the IPICD Center for Excellence in Event Reconstruction.

Lt. Daniel Zehnder, M.A., serves as BWC project manager for a large Nevada law enforcement agency. He is responsible for daily operations, system management, compliance audits, training, vendor relations and dissemination of recordings in compliance with the Nevada Public Records Act. He is also the Founder and President of the Principis Group Inc., a company which provides numerous body-worn camera consulting services aimed at helping public safety agencies, technology providers and local government entities find solutions to the immense challenges of implementing a BWC program.

Close Quarter Rifle Tactics:



Point Shooting

Michael T. Rayburn

You're a tactical team member clearing a building looking for the bad guy. As you go down the hallway, are you looking at your gun or are you looking for the bad guy to pop out of one of the doorways to your left or right? You're a backup patrol officer at a high risk car stop involving known gang members. Because of the potential for violence, you've elected to go to your patrol rifle as your primary weapon. As the bad guys are called out of the vehicle one by one, are you looking at your rifle or are you watching the suspect's hands for any sudden movements and potential weapons?

You Can Do It

When operating in close quarters, you're not going to be looking at your rifle which means you're not going to be using your iron sights, red dot or whatever other sighting system you have and, at these distances, you really don't need them. Yes, you can point shoot

accurately with your rifle. Most people find it easier to learn how to point shoot with a rifle or shotgun versus a handgun.

The majority of students who have had the opportunity to take both a handgun point shooting class and a rifle or shotgun point shooting class find it easier



Your feet should be shoulder width apart, knees bent and you're angled slightly forward at the waist, lowering your center of gravity for your combat crouch.

and faster to learn with the long gun. They also find it easier to get hits on target point shooting the rifle out to greater distances. In my point shooting rifle class, everyone can get hits out to ten yards after just a couple of hours and with less than 50 rounds fired.

Ten yards may not seem like a lot, but ten yards is 30 feet which is a lengthy distance inside a residential dwelling where most tactical teams operate and 30 feet puts you within car stop distances in most urban environments. It also puts you well within the distances at which most officer involved shootings occur. By day two of this class, almost everyone is point shooting out to 20 yards and beyond.

Once you get out to 20 yards and beyond, time and distance are on your side and you can transition over to front sight shooting or to utilizing your front and rear sights, red dot or whatever other sighting system you have on your rifle. But, when you're in close where you need to be watching for possible suspects popping out of cars or doorways, you need to be point shooting.

Not Too Difficult

It's a lot easier to learn than some would have you believe. Read the blogs and chat forums out there. Some would lead you to believe that it takes thousands of rounds and hundreds of hours to learn to point shoot. To get the basics of it down, it only takes a few hours and a couple hundred rounds (if that) and the "basics" involve shooting while moving, too.

To learn the basics, you have to start with the basics. It's like building a house – you have to have a solid foundation in order to have a sturdy house. It all starts with your feet which are shoulder width apart. This is how we walk, run and fight, so why not train this way? Some rifle courses only involve shooting from the

prone, kneeling or standing positions at targets at great distances, but that's not what we're looking at here. We are operating at closer distances where movement is a factor, so you have to take your feet placement into account. However, don't worry – in real life under stress, you'll automatically place your feet at shoulder width. It's like lowering your chin to protect your airway; you'll do it instinctively.

Stance

Your feet are shoulder width apart and your knees are slightly bent; it's called a "combat crouch." During a fight (a gunfight or any other type of fight), you'll lower your center

of gravity automatically, so why not train this way? Bending slightly forward at the waist is part of lowering your center of gravity (the combat crouch).

Now that we have your proper stance down, it's time to work on mounting the rifle properly. I know what you're thinking, but, trust me, a lot of officers don't get this right and it's the basics. The biggest problem with mounting the rifle properly is slings (especially the tactical slings which have the rifle hang in front of the officer).

Don't misunderstand me – slings are valuable accessories. The problem begins with their adjustment. Most officers adjust the rifle to hang comfortably while they're standing on post and not while they're on the range. Before you try out this technique, put on all of your gear. If you're a tactical team member, put on your tactical vest. If you're a patrol officer, put on your ballistic vest and your uniform. Once you do this, try mounting the rifle in the manner I'm going to describe to you which is the only proper way to do so.

Placement

The butt stock of the rifle goes into the pocket of your shoulder which is formed between your deltoid muscle and clavicle/collarbone. The bottom of the butt stock should be on the meaty part of your upper pectoral muscle. It's okay if the top part of



If you hunch up your shoulders, you can feel for the meaty part of your upper pectoral muscle between your shoulder and clavicle.

the butt stock is sticking up and not making contact with your shoulder as long as the bottom is secure against your upper pectoral muscle.

There are two easy ways to find this pocket. The first is to "hunch" your shoulders up (you can feel the area I'm talking about with your off hand). The second is to stick your elbow straight out to your side. As you do this, take your off hand and feel for the meaty part of your upper pectoral muscle between your clavicle/collarbone and deltoid muscle. (The NRA has been teaching this second method since forever.) Once you've located the pocket and you've placed the rifle's butt stock there, put your

elbow back down because we're operating in a tactical environment and we want to be as small of a target as possible.

Most of you will find that you have to loosen your sling to get the rifle mounted into the pocket properly and that your rifle will hang lower than what's normally been "comfortable" for you. Although you probably stand around on post more than you shoot, you need to be ready to shoot at all times, so it's important to keep your sling adjusted for shooting.

The "Hard Part"

Your feet are shoulder width apart, your knees are bent and you're bent slightly forward at the waist in your combat crouch. You've adjusted your sling and have found the pocket in your shoulder to properly mount the rifle. Now comes the difficult part. I say difficult because a lot of officers have trouble trying to transition themselves from traditional sighted fire shooting to the point shooting method.

The hard part (it's really not all that difficult) is to avoid the traditional method of shooting a long gun by having that "cheek weld," where you put your cheek onto the upper part of the butt stock to look through your sights. Instead, keep your head square, or straight, and lower your chin, keeping it off the butt stock. Keep both of your eyes open and focus on the target.

In this stance, with the rifle properly mounted, you'll notice the barrel of the rifle is aligned with the centerline of your body. From here, all you're doing is raising the gun straight up from the low ready and pointing it at the target. It's just that simple; there's no scientific method to it.

Make certain that you have a safe backstop for close quarter shooting and start off at the five yard line. To begin, keep your target about chest high. Once you learn the technique, you can move the target to different heights and/or positions. All you're doing is raising the rifle up, keeping it parallel to the ground and pointing it at the target.

A Little Closer

If you find you're having difficulty hitting the target at this distance, move in a little closer to a point where you



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are hitting the target consistently. After several hits, take two steps back and stop. If you could hit it closer, you can hit the target from two steps back. Just bring the rifle up to the same spot and lock it out.

After several hits from this new distance, take two more steps backwards and stop. Continue moving backwards two steps at a time and, before you know it, you'll be out to ten yards. Remember to keep the gun locked out in the same position as you move rearward and maintain your combat crouch. Remain focused on the target with both of your eyes open.

Since shooting and moving is one of the basics, it's time to add some movement into your newfound skill. Go back up to the five yard line and, instead of moving backwards two steps at a time, take it slow and move fluidly without stopping this time. Move rearward until you



Avoid the "cheek weld" and pull the rifle snug into the pocket of your shoulder.

start missing the target and then move forward to the target while you shoot. Keep going back and forth like this, adding distance to your shooting.

Take Your Time

This isn't a race, so take your time and move slowly. You can increase the speed

with your feet gradually as you practice. It's much more important to get hits on target than it is to move quickly. If you are getting consistent hits, then you can start working on your speed.

Whether you're a tactical team member or a patrol officer, if you're going to use your rifle, you need to have combat shooting skills and that means point shooting. Do you need to know how to make that 100 yard shot? Absolutely, but you also need to have close quarter rifle skills as well. **P&SN**

To learn more about close quarter rifle skills, pick up a copy of Mike Rayburn's book, *Tactical Urban Rifle*. Michael

T. Rayburn has been involved in law enforcement for more than 36 years. He is a former Adjunct Instructor at the Smith & Wesson Academy, and has written numerous books and articles. He can be reached on his Web site at combatgunfighting.com.

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NEW TECHNOLOGY

QuickMap 3D®: The First Crash and Crime Mapping Software Available on Android



Laser Technology, Inc. (LTI) recently announced the release of **QuickMap 3D® (QM3D) version 7.X**, the very first field data collection software available on an Android platform. Crash and crime scene investigators can embrace the simplicity of **QM3D** currently running on Windows® devices, plus cable-free data transfer, improved workflow on a larger display and built-in help assistance as you map.

QM3D offers new features which will make jobs of crash and crime scene investigators much easier. The software's intuitive workflow makes it simple to collect, store and identify critical evidence as fast as you can point and shoot an LTI laser. To continue with that philosophy, a built-in help tool has been added to include answers to the most commonly asked investigator questions.

QM3D users can map with a TruSpeed® Sxb, TruPulse® 200X and the TruPoint 300, a brand-new mapping laser from LTI. The TruPoint 300 offers millimeter accuracy and uses a red dot pointer and camera for targeting. It's designed to easily measure evidence indoors and within tight spaces.

Circle 6080 for More Information

Fido® X2 Handheld Explosives Trace Detector



FLIR Systems, Inc. recently announced the launch of the **Fido X2**, a handheld Explosives Trace Detector (ETD). Offering high sensitivity at an accessible price, the **X2** features FLIR's proprietary TrueTrace™ technology to quickly and accurately detect a broad range of chemicals used in the manufacture of homemade, commercial and military explosives.

At less than 1.5 pounds and featuring a new ergonomic design, the **Fido X2** is ultralightweight and durable for maximum portability.

With analysis provided in ten seconds or less, law enforcement officers can quickly and accurately screen for threats to mass transit, sporting arenas and critical infrastructure with confidence.

The **Fido X2**'s guided user interface allows law enforcement to deploy units broadly across officers with minimal formal training. On-screen prompts and simple go/no go alarms guide users through operation and aids sampling and decision making.

Circle 6078 for More Information

Sureshell® Shotshell Carrier System

Mesa Tactical is now offering the **SureShell Shotshell Carrier** made from durable, impact-resistant polymer. This new **Shotshell Carrier** system, available in a six shell configuration, is secured to the receiver by a lightweight aluminum back plate with brass threaded inserts. The new **SureShell Polymer Carrier** also includes an innovative dual rubber friction system that reliably holds shotshells in place. Models are available with and without integral Picatinny rails for mounting optics.

The new carriers are designed to withstand the daily use and abuse to which arsenal weapons are commonly subjected.

Circle 6079 for More Information



Portable Worklight

Code 3, Inc. recently announced a high intensity, battery powered worklight with magnetic base which allows you to position the light anywhere on the outside of a vehicle to illuminate a scene quickly.



The **Portable Worklight** features five, three watt LEDs which produce a 600 lumens, high intensity flood beam and five operating modes.

The **Portable Worklight** is made with an aluminum heat sink housing (black), a stainless steel mounting bracket and a polycarbonate lens to ensure maximum durability and light weight. The long life lithium rechargeable battery has a run time of three to four hours with a charge time of less than seven hours. A cigarette plug and AC plug charger are both included.

Circle 6081 for More Information

New Reebok ZigKick Tactical Line



Reebok tactical footwear introduces the new **ZigKick Tactical** line of eight inch and six inch boots, engineered for performance, comfort and durability.

Reebok's **ZigTech** is a unique zigzag foam midsole designed to flex like an athletic shoe, absorb heel shock and provide energy return under the most punishing conditions.

The **ZigKick Tactical** eight inch side zip boot (RB8845) and six inch side zip boot (RB8630) both feature the new removable Reebok **FootFuel™** injected EVA cushion foot bed, providing arch support, stability and motion control, along with vented airflow zones to cool feet with every step. Lightweight mesh uppers with a moisture wicking nylon mesh lining provide additional air circulation to keep feet cool. A slip-resistant rubber bottom and a TPU heel stabilizer help keep feet firmly planted.

Circle 6082 for More Information

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ADVERTISING:

Al Menear

Toni Saturno

DAYS Communications, Inc.

1208 Juniper Street

Quakertown, PA 18951-1520

Phone: (215) 538-1240

Fax: (215) 538-1208

E-mail:

info@policeandsecuritynews.com

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BUSTED!

James L. McClinton, Ph.D

"Thank you all for your advocacy on this important bill in protecting all of the women and children in our woods..." Not surprisingly, "sexual assault" is certainly punishable in New Hampshire by prison time. However, state lawmakers currently have legislation pending which implies that prison is not enough. According to House Bill 212, anyone who commits sexual assault while out hunting or fishing will also have his hunting or fishing license revoked. *(I know many fish and squirrels are now breathing a lot easier.)*

"Number two, face the left, bare your teeth and growl!" Magistrates in Ceredigion, Wales, fined a man the equivalent of about \$1,130, finding that it was his dog that bit a teenage girl in October, sending her to a hospital. Authorities in Aberystwyth had set up a formal police lineup of dogs from the neighborhood and the girl had made a positive ID of the owner's dog as the perp. *(In my opinion, the worst crime committed there was naming the town "Aberystwyth.")*

Successful business strategies are not hampered by minor annoyances like armed police officers, numerous cop cars or helicopters hovering overhead... In an increasingly familiar scenario, police officers recently conducted a raid of a suspected drug house in Wood River, Illinois. The officers swarmed the home and yard in numbers and confiscated evidence before arresting the occupants. But, the officers had to stop briefly from time to time to answer the front door (ten times during a 90 minute period) as the dealer's regular customers continually arrived to buy more heroin. *(Darn police! There they go interfering with free enterprise again.)*

Sort of a frequent-flyer program... France's daily *La Provence* reported that at least one enterprising drug dealer in Marseilles had begun distributing "loyalty cards" to its best customers, offering a ten euro discount on future sales after that customer's card was full (all ten squares stamped from previous sales). The card also expressed thanks for the patronage and reminded the customer of its operating hours – 11 a.m. to midnight. *(I wonder if they do price matching?)*

REAL STORIES OF GENUINE ABSURDITY



Not surprisingly, the "Religious Freedom" laws in several states are having unintended consequences. In Indianapolis, one of those side effects is The First Church of Cannabis, formed the day the law went into effect. Police were on hand in full force and the church had to tell its congregants they could not use marijuana at the service for fear of arrests. The Church's founder (whose official title is "Grand Poobah") promised to sue the state under Indiana's Religious Freedom Restoration Act to allow members (called "Cannaterians") to use pot. The bottom line, he said, is "I'm not a criminal; I'm a religious figure." *(I wonder what their bake sales are like?)*

It's a drug bust!... A Honduran woman carrying 3.3 pounds of liquid cocaine in her breast implants was arrested at the airport in Colombia's capital, Bogotá. Police said the 22-year-old woman was attempting to travel to Spain when her apparent nervousness aroused suspicion in the security line. X-rays revealed a recent surgery on her breasts and she confessed that an unknown substance had been implanted which she was meant to take to Barcelona. *(Breast implants – the worst way of keeping a low profile around airport security.)*

And, by the way, when you complete the form, be sure to sign your name where it says you understand your Miranda rights... In Kentucky, the Franklin County Sheriff's Office has posted a flyer on its Facebook page asking drug dealers to turn in their rivals. It features an image of a marijuana leaf and says, "Is your drug dealing competition costing you money? We offer a free service to help you eliminate your drug competition!" The Franklin County Sheriff says the post is funny, but the sheriff's department is not joking around. At the bottom of the letter, people are asked to fill out information about the

drug dealer they are reporting, including the dealer's name and vehicle. The Sheriff says he got the idea from the McIntosh County Sheriff's Office in Georgia. *(Maybe these dealers are thinking, "I better do it to them before they do it to me!")*

I'm guessing he wasn't class valedictorian... A 58-year-old man who arrived late for a flight to attend his high school reunion is accused of running onto a concourse at Denver International Airport in an attempt to stop the departing plane. The man found his Ohio bound United Airlines flight pushing back from a departing gate. He then "forcibly" opened a locked emergency exit door and allegedly ran onto a secured ramp area. "[The man] did then run out of the door and chased down on foot, a tug driver who was actively engaged in pushing back...(an) aircraft filled with passengers," the affidavit said. The tug driver was forced to stop and the man then allegedly insisted on boarding the plane before he was arrested. He told police he was en route to Ohio to attend his 40 year high school reunion. *(The reunion committee needs to publish a "Where Are They Now" supplement.)* **P&SN**



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