

HexSite Combat Effectiveness

First, a small amount of background about me. I served on active duty in the US Army from January of 2000 until August of 2004. I was an Airborne Infantryman and a member of 3rd Ranger Battalion. I attended several small arms and close quarters combat courses. During my four-plus years of service, I spent approximately fifteen months in combat operations in several different parts of the southwest Asia AO. My last assignment was as a sniper section leader for the 3rd Infantry Division.

During my time in combat, I found a substantial number of shortcomings in my issued Aimpoint M68 Comp-M red dot sight. The point of aim is easily lost on a low-contrast background.-- for instance, on a sunny day. Also, scratched lenses reduce the clarity of a target, the batteries can die at an inopportune moment, and there can be difficulty finding the target in low light because of recticle brightness, to name a few. Having *experienced* these problems, I wanted to use a more effective and robust sighting system for my primary weapon in combat.

Before I enlisted in the Army, I had accomplished firearms training and a gunsmithing apprenticeship with Tim Sheehan, of Goshen Enterprises Inc. There, I was exposed to the HexSite sighting system and the training mindset that is crucial to its correct employment. These sights and this mindset are specifically designed for use in *combat*, which means they are for *shooting at people who are busy trying to shoot you back*.

While I was in combat, because of my training with the HexSite system I improvised something that would allow me to use the HexSite *techniques*, if not the actual sights. I took the back-up iron sight from my weapon and moved it forward to a mid-range location. I carried my M-4 Carbine, thus configured, in combat and can attest to its effectiveness in a high-stress environments.

I have shot and tested the current DHX- M4T (M4, HexSite) prototypes. Because of their extreme durability, simplicity and effectiveness, I would insist on having them on my weapon if I went to combat again. I would highly recommend the testing of this sight system for consideration in a military application. I would especially recommend the HexSite for all crew-served and belt-fed weapon systems.

Respectfully Submitted,

[Staff Sgt., US Army, Currently Deployed]

M4-DHX V.S. Red Dot Sights

In comparison of the M4 DHX and the EoTech holographic sight, let me say that I have used electronic sighting systems in combat and think that the EoTech holographic sight is the best red dot sight currently available.

During my service in C Co. 3/75 RGR Bn at Fort Benning Georgia, I competed in many CQB/Tactical Carbine matches with shooters of similar skill level at the Fort Benning rifle and pistol club. During the matches, I used a prototype M4-DHX on my personal M-4, I competed against fifteen to twenty five shooters equipped with various red dot systems including, Aimpoint, EoTech and several others and never failed to score in the top two. In my experience, I have found the M4-DHX to be at least as fast and accurate as any red dot sight that I have seen as well as having several characteristics that make it superior.

1. Superior robustness including a lack of lenses that can be scratched, broken or obscured by mud, blood or any other substance.
2. A lack of batteries that have to be carried by the operator and sometimes replaced at what may be a bad time.
3. Shock proof and waterproof as deep as you want go
4. Has excellent retical visibility in all light levels, including bright sunlight, extreme low light and artificial light without adjustment.
5. Gives shooter excellent peripheral vision that allows increased situational awareness.
6. Interfaces with ACOG without removal.

I believe there is excellent potential for the application of the DHX on all belt fed crew served weapons systems, as it allows a clear view of the beaten zone and never masks the target no matter what range 25m-1200m

I have a strong military and civilian shooting background and I have the more trigger time than anyone does in the world with the M4-DHX including the designer. I am confident that a shooter who has combat experience will immediately identify the potential of this sighting system.

I don't want anyone to think that I am just a cheerleader for Goshen Enterprises, although I have been close friends with the owner Tim Sheehan for the better part of a decade. I would not compromise my integrity and endorse this sight as a piece of combat equipment if I were not willing to bet my own life on it. I would not only accept this sighting system on my primary weapon if I were to deploy to a combat zone again, I would insist on it.

Respectfully submitted,

[Staff Sgt., US Army, Currently Deployed]

I am [Staff Sgt., US Army, Currently Deployed], an active duty member of the United States Army. My background is as follows: (1) Intermediate and Advanced Pistol Courses, Caswell Shooting, Phoenix, AZ; (2) Tactical Pistol and Basic Submachine Gun Courses, Goshen Enterprises, Inc., Sedona, AZ; (3) Two-week U.S. Army Advanced MOU (Military Operations in Urban Terrain) Course, Ft. Benning, GA; (4) Two years in Special Operations Command as member of 75th Ranger Regiment, including combat deployment to Southwest Asia following 11th Sept 01 attacks. During the period 9-11 Apr 02, I conducted a test comparison of two identical CZ-75B pistols to determine attributes of different types of sights. The two test pistols used are six serial numbers apart and have roughly the same round count. One pistol has factory Post & Notch sights with luminescent dots. The other is equipped with the new Goshen Enterprises, Inc. proprietary HexSites. For purposes of this article, abbreviations used are *P/N* for Post & Notch, *Trit* for Tritium and *Hex* for the HexSite.

Test was conducted with 200 rounds of 147gr JHP in five sections: Day Hex; Night Hex; Day P/N; Night P/N and Night Trit. 20 pairs were fired for each of the five sections. Times then were averaged between the 20 pairs, using the following:

DAY: Six-inch hanging steel targets at a range of seven meters, engaged with “Rapid Controlled Pairs”, with shooter starting at low ready and following commands from the observer (“Shooter Ready, Stand By, Beep (from PACT timer)”). Shooter then engaged target as quickly and accurately as possible. Data was recorded for the number of hits on first shot, second shot, and cumulative times. All times were collected from PACT timer. **NIGHT/LOW LIGHT:** Night/low light engagements fired in same manner as the **Day**. I found that during the day it was easier to concentrate on the target with the HexSite because I did not have to line up dots. The more I was able to concentrate on the *target*, the tighter my sight refinement became. When I shot P/N engagements, I felt I was wasting time focusing on sights when I needed to concentrate on the target. *This was reflected in the times.* HexSite’s average overall engagement time was 30% faster, with some of the pairs being fired in less than a second. Even more astounding was average first-shot time, which was 49% faster. Faster first-shot time is very significant since the most crucial round of any gunfight is the first round fired accurately. **Day accuracy** rating of both P/N and Hex was the same at 37 of 40 shots, or 92.5%.

During the **Night/Low Light** engagement, everything I had experienced during the **Day** was even more exaggerated with the Tritium sights. I saw the glowing dots very well. Unfortunately, I needed to see the target, but couldn’t because my eye could not help but focus on the glowing green. Engagements shot with the other two sights were similar, with the Hex taking the lead -- over 25% faster in overall and first-shot times. *Accuracy* rating was 75% for both P/N and HexSite, and a telling 55% for the Tritium sights.

In conclusion, I find the HexSite to be a wonderful tool that increases engagement speeds by more than 25%, especially under stress, without loss of accuracy. Thus, it is a lifesaving tool that improves anyone’s defensive pistolcraft. As for Tritium sights, I submit that they are a misguided design, likely to cause more harm than good.

Test Contents:

[Staff Sgt., US Army, Currently Deployed], **active duty member, United States Army**

(Background: Intermediate/advanced pistol courses; tactical pistol/basic submarine gun courses; U.S. Army Advanced MOUT (Military Operations in Urban Terrain) Course,

Fort Benning, GA; two years in Special Operations Command as member of 75th Ranger Regiment, including combat deployment to Southwest Asia (Afghanistan and Iraq) following 11th Sept. 01 attacks.)

“During the period 9-11 April 2002, firing all test shots, I conducted a test comparison of two identical CZ-75B pistols, six serial nos. apart, with approx. same round count, to determine attributes of different sights – one with factory post-and-notch sights with luminescent dots; and one with the **HexSite™** sighting system. (Abbreviations to follow: P/N, Trit.)”

“All times representative of *two shots fired in “Rapid Controlled Pairs*, using 200 rounds of 147gr FMJ; test conducted in five sections: (1) **Day HexSite™**; (2) **Night HexSite™**; (3) **Day P/N**; (4) **Night P/N** and (5) **Night Trit**; 40 rounds (20 pairs) per section. Times averaged between the 20 pairs; as follows:

Day: Six-inch hanging steel targets, range seven meters; from low-ready, and commands of “shooter ready, stand by, beep”. PACT timer data – number hits *first shot, second shot and cumulative times*. During day, easier to concentrate on the target with **HexSite™** because did not have to line up dots or waste time focusing on P/N sights. More concentration on *target* resulted in *tighter sight refinement*. *This was reflected in the times – **See Chart**.*

*“In Daytime comparisons, **HexSite™**’s engagement time was **30% faster** than P/N, with some pairs fired in less than a second. The **first shot** (*the most crucial shot in any firearms encounter*) was an astounding **49% faster**.*

Night/LowLight: Fired in the same manner as the **Day**, with starlight only and no moon, **HexSite™** again was the *fastest* sight tested, excelling *Tritium* sights by **8.1% in speed**, and having an **accuracy hit-rate of 76%**, *approx. 40% higher* than that of the *Tritium* sight’s **55%**. I could see *Tritium*’s glowing dots very well, unfortunately. What I *needed* to see was the *target*, and I couldn’t because I could not keep from focusing on the glowing green. Again, **See Chart.**”

“I find the **HexSite™** to be a *lifesaving* tool that increases engagement speeds by more than **25%**, **especially under stress**, without loss of accuracy. As for *Tritium* sights, they are a misguided design, likely to cause more harm than good.”

