

# Product Catalog

2024

# VK ∫ SYS

## VK Integrated Systems

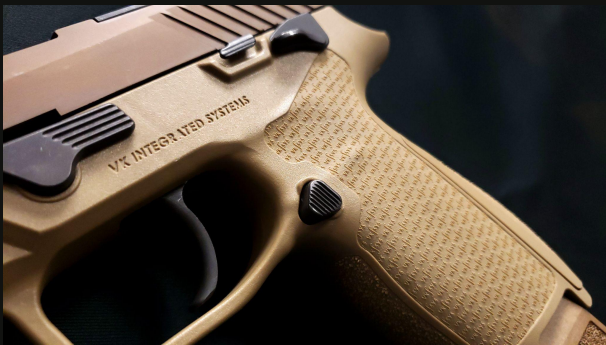


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# VK320 Grip Module

The VK320 Grip Module for SIG Sauer P320 with or without manual safety functions with OEM P320 trigger modules, OEM 17-round magazines and magazine base plates, and small components and accessories. Ergonomics improve handling, yet increase surface area less than 1% overall.



Interchangeable backstraps allow for tungsten weights or electronics. Compatible Holsters include: Known fit with Blackhawk model T-Series, ARC, SERPA CQC; Safariland model 7390-7TS, 7362-7TS, 7360-7TS RDS; Bladetechnics Total Eclipse; Raven Concealment model Vanguard, Perun, Perun-LC; and Fobus Evolution.

Accessory rail allows for compatible lights: Surefire X300 Family/XH Family, Streamlight TLR family, and LMD Pistol Enhancer (LMD-PE-IR-1). Ability to insert VICE-VK320 electronics increases situational awareness. Optional tungsten backstraps for added weight sold separately.



MSRP:	\$75.99
Colors:	Tan, Black
Magazine:	Compatible with Full size OEM SIG® mags
Safety:	Safety cut optional
Backstrap:	Electronics (std), Tungsten (optional)
Weight:	Full Size - 3.33 oz (94.47 g) Carry Size - 3.25 oz (92.27 g)



# SIOS-C21B Buttstock

The VKIS SIOS-C21B model serves as a drop-in MIL-SPEC replacement buttstock for any carbines using an AR-15 type MIL-SPEC sized receiver extension tube. QD sling mounts accept any push-button sling swivel and an ergonomic pull tab that allows for quick deliberate action while preventing snags and unintentional activation.



Length of pull 14.10 in. (extended) and 10.80 in. (collapsed). Slim form factor increases mobility in compact spaces. Closed A-Frame design affords smooth sides, reducing risks of snags when maneuvering in tight spaces. End of stock has knurling and curved geometry making this a great option from precision rifles to short barrel configurations.

The integral storage compartment allows you to store essential items in your buttstock. The compartment allows for storage of electronics, batteries or anything the mission demands. Total storage volume is 2.62 cubic in. (42.93 cubic cm). Ability to insert VICE-21B electronics increases situational awareness.



MSRP: \$99.68  
Colors: Black  
Buffer Tube: MIL-Spec compatible  
Sling: QD compatible  
Weight: 9.00 oz (255.10 g)

# VICE Overview

Compact, energy-efficient, and compatible with various platforms, the VICE electronics line empowers your weapon system to share critical data with your tactical network through the SmarTak® inForce ATAK Plugin.



Transmit location, orientation, weapon status (firing, holstering), weapon system details, and ammo type directly to the tactical network or TAK Server.

Upgrade your weapon system without changing how it operates.

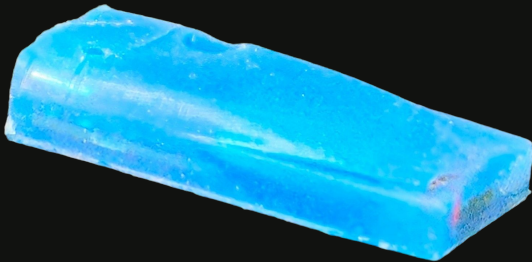
# VICE for VK320

VICE for VK320 is a high-tech electronic Weapon Orientation Module (WOM) for the VK320 Grip Module. It enhances situational awareness by providing real-time information about team members' locations and engagement directions.



Electronics include a 9-DOF IMU (Accelerometer + Gyro + Digital Compass), Microphone, and Bluetooth. VICE-VK320 sends weapon orientation (roll + pitch + yaw) to a connected TAK device. VICE for VK320 is compatible with the SmarTak® inForce ATAK Plug-in.

No external sensors needed. VICE-VK320 installed in your VK320 grip module will upgrade your SIG® M17/M18/P320 to help you and your team communicate and overcome challenges. Motion analysis detects rounds fired, holster draw, and reholster with no additional sensors, and transmits it to the network via SmarTak® inForce ATAK Plug-in.



Model:	VICE-VK320
MSRP:	\$299.99
Platform:	VK320 Grip module for SIG® M17/M18/P320
Weight:	0.35 oz (10.00 g)
Dimensions:	1.8 x 0.81 x 0.34 in (45.7 x 20.6 x 8.64 mm)
Battery:	40 mAh
Wireless:	2.4 GHz BLE Compatible
Capabilities:	Shot detection, weapon pose, holster draw



# VICE for GLOCK® Gen3

VICE for GLOCK® is a high-tech electronic Weapon Orientation Module (WOM) for standard GLOCK® Gen3 handguns. It enhances situational awareness by providing real-time information about team members' locations and engagement directions. VICE-G3F is compatible with Gen3 GLOCK® standard full size handguns.



Electronics include a 9-DOF IMU (Accelerometer + Gyro + Digital Compass), Microphone, and Bluetooth. VICE for GLOCK® sends weapon orientation (roll + pitch + yaw) to a connected TAK device. VICE for VK320 is compatible with the SmarTak® inForce ATAK Plug-in.

No external sensors needed. VICE for GLOCK® installs directly into your backstrap of your pistol, with one screw to lock it in place. **Does NOT change how your gun functions.** Adding VICE Helps your team communicate and overcome challenges. Motion analysis detects rounds fired, holster draw, and reholster with no additional sensors, and transmits it to the network via SmarTak® inForce ATAK Plug-in.



Model:	VICE-G3F
MSRP:	\$299.99
Platform:	Gen3 G17, G22, G31, G17P, G22P
Weight:	0.43 oz (12.19 g)
Dimensions:	1.85 x 0.89 x 0.56 in (47.0 x 22.6 x 14.2 mm)
Battery:	40 mAh
Wireless:	2.4 GHz BLE Compatible
Capabilities:	Shot detection, weapon pose, holster draw

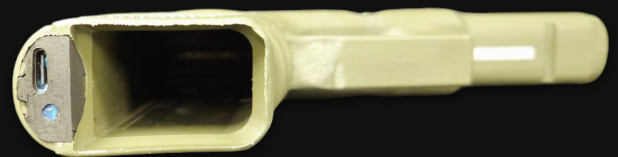
# VICE for GLOCK® Gen4, Gen5

VICE for GLOCK® is a high-tech electronic Weapon Orientation Module (WOM) for standard and crossover GLOCK® Gen4 and Gen5 handguns. It enhances situational awareness by providing real-time information about team members' locations and engagement directions. VICE-G5F is compatible with Gen4/5, full size handguns.



Electronics include a 9-DOF IMU (Accelerometer + Gyro + Digital Compass), Microphone, and Bluetooth. VICE for GLOCK® sends weapon orientation (roll + pitch + yaw) to a connected TAK device. VICE for VK320 is compatible with the SmarTak® inForce ATAK Plug-in.

No external sensors needed. VICE for GLOCK® installs directly into your backstrap of your pistol, with one screw to lock it in place. **Does NOT change how your gun functions.** Adding VICE Helps your team communicate and overcome challenges. Motion analysis detects rounds fired, holster draw, and reholster with no additional sensors, and transmits it to the network via SmarTak® inForce ATAK Plug-in.



Model:	VICE-G5F
MSRP:	\$299.99
Platform:	Gen4 G17, G22, G31, G17T. Gen5 G17, G22, G31, G17T, G19X, G45, G45T
Weight:	0.40 oz (11.39 g)
Dimensions:	1.87 x 0.88 x 0.52 in (47.5 x 22.4 x 13.2 mm)
Battery:	40 mAh
Wireless:	2.4 GHz BLE Compatible
Capabilities:	Shot detection, weapon pose, holster draw



# VICE for SIOS-C21B

VICE for SIOS-C21B buttstock is a high-tech electronic Weapon Orientation Module (WOM) for any weapon system with a MIL-SPEC 6-position buffer tube. It enhances situational awareness by providing real-time information about team members' locations and engagement directions.



Electronics include a 9-DOF IMU (Accelerometer + Gyro + Digital Compass), Microphone, and Bluetooth. VICE for GLOCK® sends weapon orientation (roll + pitch + yaw) to a connected TAK device. VICE for VK320 is compatible with the SmarTak® inForce ATAK Plug-in.

No external sensors needed. VICE for SIOS-C21B replaces your buttstock. **Does NOT change how your gun functions.** Adding VICE Helps your team communicate and overcome challenges. Motion analysis detects rounds fired, holster draw, and reholster with no additional sensors, and transmits it to the network via SmarTak® inForce ATAK Plug-in.



Model:	VICE-21B
MSRP:	\$299.99
Platform:	SIOS-C21B Buttstock
Weight:	1.57 oz (44.4 g)
Dimensions:	2.83 x 1.44 x 0.7 in (71.88 x 36.58 x 17.8 mm)
Battery:	600 mAh
Wireless:	2.4 GHz BLE Compatible
Capabilities:	Shot detection, weapon pose

# TAK Stack

VK Integrated Systems created TAK Stack to elevate the TAK user experience. This mobile app, available on both Android and iOS, acts as your one-stop shop for all things TAK. Users can effortlessly download the most recent versions of ATAK, plugins from the Tak Product Center, plugins from industry partners, and map data – all within the app itself.



Select versions of ATAK to install on your Android device. TAK Stack hosts plugins from industry partners and the TAK Products Center, making it easy to find plugins from a trusted source, all in one place. TAK Stack detects which version of ATAK you have installed on your Android device and allows you to select from compatible plugins to download and install.

## Map Packages

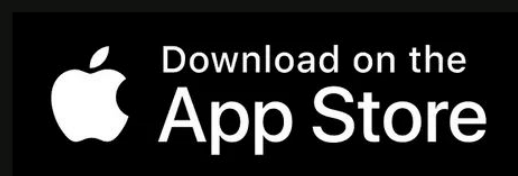
Open source map packages are available to download. Select maps that will make your mission successful.

## User Guides

Get access to user guides in PDF format to learn how to leverage your desired plugin.

## SmarTak Updates

Use TAK Stack to update the firmware on SmarTak® device, making sure you have the latest functionality. No cables needed.



# TAK Servers

Enterprise TAK Servers for when you and your team need situational awareness 24/7. Includes basic video streaming and MARS after action review (AAR) tool. Admin controls improve quality of life for organizations big and small by quickly adding users with a simple interface. No seat limit and Dedicated support. Premium Tier allows you and your team focus on the mission without the hassle of server administration or security concerns.



	KORE		Enterprise	
	 KORE Lv1	 KORE Lv2	 PRO	 PREMIUM
Annual Price	\$99.99	\$999	\$4,600	\$5,500
Users / Seats	1	No Limit	No Limit	No Limit
Admin Tools	-	-	✓	✓
MARS	-	-	-	✓
Basic Video	-	-	-	✓



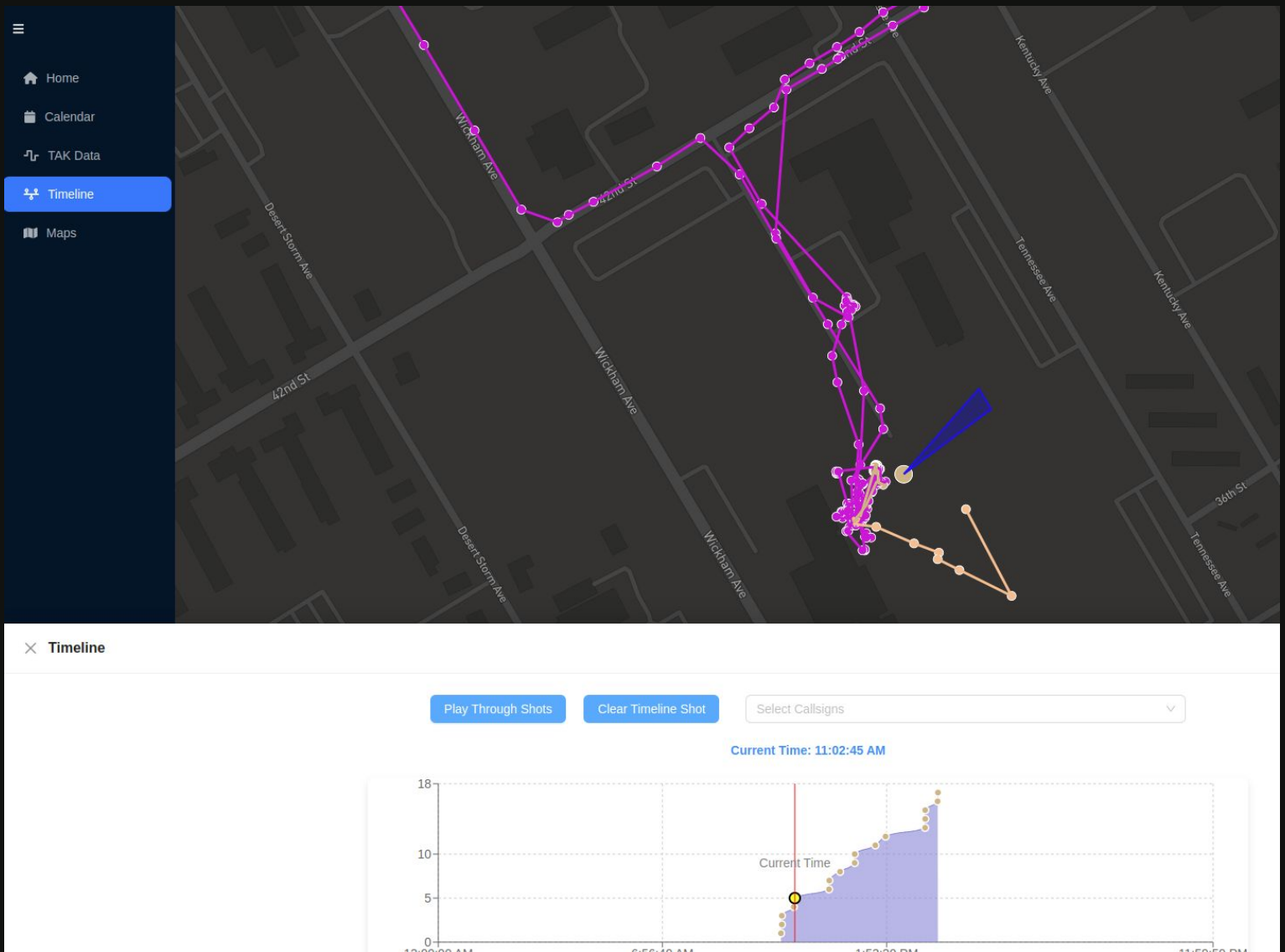
**TAK SERVERS**



# MARS

## MARS is an AAR Tool Done Differently.

MARS, or the Mapping After-action Review Systems, is a decentralized database built to safeguard your data and uphold a secure digital evidence chain of custody. Simply put, it prevents any unauthorized deletion of data. MARS effortlessly scales to handle your data requirements, taking the pressure off your TAK server. Moreover, MARS can visualize enhanced position location information (PLI+) gathered during real-world events. You can even replay individual user paths and weapon shots for in-depth analysis.



# SmarTak® inForce Plugin

The SmarTak™ inForce Plug-in provides seamless integration with SmarTak™ devices such as the SIOS-C11B, allowing you to track your weapon usage and send enhanced Position and Location Information (PLI+) data to the TAK ecosystem.

The plug-in generates a Cursor on Target (CoT) message when a shot is detected from the SIOS-C11B v2 or VICE-VK320, providing real-time information about the location and orientation of the attached system. This ensures that every member of the network is aware of shots taken and the direction in which they were fired.

With the SmarTak® inForce Plug-in, users can select multiple weapons and ammo types using the weapon configuration tool, providing customized tracking for each of the weapon systems.

Pace counter feature allows you to track how far you've traveled.





# VKIS Energetics

The VKIS Energetics Team, founded in 2019 by Charles S. Crook, Jr., is revolutionizing binary gel explosives. Crook, with his background in chemistry and special operations explosives training, aimed to transform how binary explosives are used.

The VKIS Energetics Team has since developed several MatrEX<sup>®</sup> Binary Explosive Gel formulations, catering to the specific needs of the Special Operations community. MatrEX<sup>®</sup> has a detonation velocity of 6,200 m/s and an RE factor of 1.2, making it a powerful explosive option.

Currently, VKIS Energetics is working on a US Air Force Phase II SBIR project to support Hill Air Force Base EOD technicians in decommissioning Minuteman II rocket engines. This project utilizes MatrEX<sup>®</sup> Gel as the primary component for explosively formed projectiles (EFP).

VKIS Energetics remains committed to pushing the boundaries of science and technology to deliver innovative solutions.





# MatrEX

## Binary Gel Explosive

Unlike traditional liquid or solid explosives, MatrEX® is a gel. This unique gel formulation prevents leaks and spills, making it safer and easier to handle. It also allows for faster preparation of explosive charges.



MatrEX® Binary Gel Explosive comes in a two-component system. To create the high explosive, you simply combine the non-explosive gel and activator. MatrEX® can be ignited using a standard blasting cap or a 50-grain detonating cord.

### **Military Applications:**

- Tactical breaching • CBRNE (Chemical, Biological, Radiological, Nuclear, and Explosives) operations • Demolition with various charge applications

### **SWAT Applications:**

- Tactical breaching • Rescue operations

### **Mining Applications:**

- Blasting for material extraction • Boulder blasting
- Shelving (creating steps in rock formations) • Significant reductions in equipment costs, safety risks, and time

# MatrEX<sup>®</sup> Features

**Binary System:** It consists of two non-detonable components that are mixed to create the explosive. This makes it safer to store and transport.

**Gel Form:** The gel consistency prevents leaks and spills, making it easier and safer to handle than liquid explosives.

**Instant Mixing and Arming:** The components mix quickly and the resulting explosive is immediately ready for use.

**Versatile Initiation:** It can be detonated using standard blasting caps or detonating cord.

**Cost-Effective:** The non-explosive nature of the individual components results in significantly lower shipping costs compared to traditional explosives. Estimated \$0.10/mile for 200 mile radius shipping cost.

Explosive	Velocity	R.E. Factor	Ready State	Non-Explosive State	Storage Requirements
MatrEX <sup>®</sup>	6,200 m/s	1.20	GEL	Flammable liquid	Flameproof Storage
Helix	6,200 m/s	1.20	Liquid	Flammable liquid	Flameproof Storage
TEXPAK	6,200 m/s	1.20	Liquid	Flammable liquid	Flameproof Storage
C-4	8,800 m/s	1.34	Solid	N/A	Explosive Storage
TNT	6,950 m/s	1.00	Solid	N/A	Explosive Storage

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