SMASH 3000
Fire Control System for Small Arms

SMARTSHOOTER
PRECISE TECHNOLOGICAL SOLUTIONS
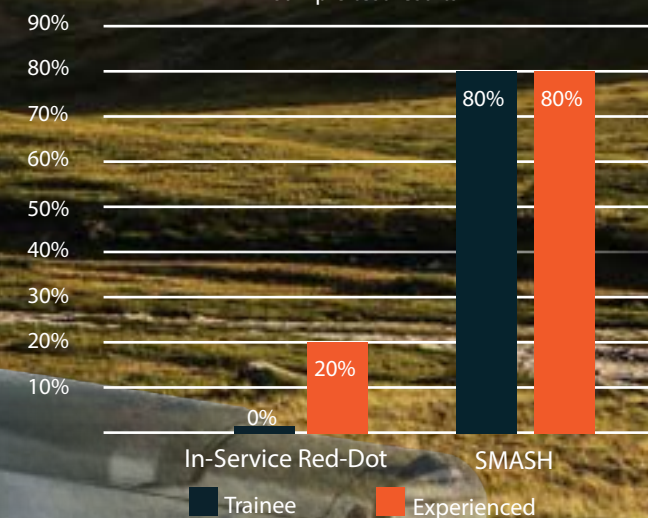
First round hit rate on moving targets @ 100m from standing and unsupported fire positions

Sample test results

	In-Service Red-Dot	SMASH
Trainee	0%	80%
Experienced	20%	80%

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Fire Control System for Small Arms

SMASH is a combat-proven family of Fire Control Systems which are designed, developed and manufactured by SMARTSHOOTER to ensure each round finds its target, in both day and night conditions, as well as keeping friendly forces safe.

The SMASH 3000 is the latest and most advanced fire control system by SMARTSHOOTER. All operational and technical insights from previous versions were incorporated into the system, making it even more effective while enabling significant weight and size reduction.

Our proprietary target acquisition and tracking algorithms are integrated with sophisticated image-processing software into a rugged hardware solution, providing an easy to use and cost-effective solution that creates the required overmatch.

SMARTSHOOTER's fire control solutions are designed to give soldiers and law enforcement officers a decisive tactical edge in almost every operational scenario, maximizing force lethality and operational effectiveness throughout every engagement.

Why SMASH?
- SMASH increases hit probability to significantly enhance lethality and user survivability
- Increased situational awareness - Enables accurate shooting with both eyes open
- SMASH ensures a first-round hit, day and night while reducing engagement time
- Shot accuracy no longer affected by human factors such as fatigue, stress or target movement
- Detection, tracking and engagement of drones and small UAVs
- Ballistic support for a wide variety of ammunition types
- Connectivity with C4I systems, Battle Management Systems and external sensors
- Low life cycle cost (minimal training, maintenance and ammunition)

Features

See-through Optics

The basic SMASH system comprises a see-through optics sight, providing the shooter with a naturalistic sight picture and improved situational awareness

Lock & Track

Once locked onto the target, SMASH tracks its movements in the sight - even through a crowd – helping improve user situational awareness, easing their mental load and ensuring that when the time comes, the system will make that first shot count

Target Detection

Simple, intuitive controls on the weapon allow the users to select and confirm the target without moving their hands

Add-On

SMASH mounts on standard weapon rails and can be fitted to most weapons allowing upgrade of legacy rifles to the 21st Century battlefield

Day/Night Operation

SMASH enables precision targeting around the clock, with clear day and night vision capabilities

Drone Mode

Software built into the SMASH fire control system can recognize unmanned aerial vehicle targets, automatically track them and help shooters eliminate the threat

Additional Features

Swift Mode Change

If under certain circumstances, users feel the need to go back to basics, the system can revert to a reflex sight at the flick of a switch

Environmental Conditions Certification

SMASH has been extensively tested to meet the stressing requirements set out by international certification documents such as the US MIL-STD-810

Digital Zeroing

SMASH can be used to automatically 'zero' the weapon, minimizing training overhead for inexperienced shooters

Main System Modes	Aiming Dot - accurate reflex sight
	Day mode fire control assisted shots using see-through projected markers
	Night mode fire control assisted shots using low light video display
Multi-Operational Use	Ground target elimination, static and dynamic targets up to 300 m (Day Mode)
	Small UAS kinetic elimination up to 200 m (Day Mode)
Main Components & Installation	Sighting Unit - mounts on existing MIL-STD-1913 rail
	Fire Block Mechanism (FBM) - incorporated in a replacement weapon grip (and trigger guard)
	Quick on-site installation
Optics Type	X1
Supported Weapons	M4, AR15, SR25 (M110)
Integral Fire Control Computer	Target lock & track
	Dynamically updated firing zone and synchronized shot
	User selection of different ballistics
	Enables future capabilities addition through software upgrades
Size L x W x H	164 mm X 73.5 mm X 75 mm
Weight	740 g (Sight)
Power Source	Rechargeable smart Lithium Ion battery pack
	72 hours or up to 3600 SMASH-assisted shots
NIR Illuminator	Optional Activation
MIL-STD Compliance	MIL-STD-810G, MIL-STD-461E

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SMARTSHOOTER

PRECISE TECHNOLOGICAL SOLUTIONS

SMASH X4
Magnifying Fire Control System
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The SMASH X4 combines a X4 magnifying optic scope with SMARTSHOOTER's fire control capabilities thus providing extended detection, recognition & identification ranges for the shooter as well as extended lethality ranges.

The SMASH X4 also includes an etched reticle to allow shooting without battery power. An optional integrated Laser Range Finder (LRF) enables range measurement both as a user-initiated capability as well as a system input for improved precision. The system integrates Lock-Track-Hit capabilities hitting static and dynamic targets, at complicated shooting conditions, in real tactical scenarios.

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Main System Modes	Etched reticle mode
	Day mode fire control assisted shots using see-through projected markers
	Night mode fire control assisted shots using low light video display
	Clip-On mode fire control assisted shots using night vision clip-on
Multi-Operational Use	Ground target elimination, static and dynamic targets up to 400 m (Day mode)
	Small UAS kinetic elimination up to 250 m (Drone mode)
	Ground target elimination, static and dynamic targets up to 400 m (Night mode)
Main Components & Installation	Sighting Unit - mounts on existing MIL-STD-1913 rail
	Fire Block Mechanism (FBM) - incorporated in a replacement weapon grip (and trigger guard)
	Quick on-site installation
Magnification	X4
Supported Weapons	M4, AR15, SR25 (M110)
Integral Fire Control Computer	Target lock & track
	Dynamically updated firing zone and synchronized shot
	User selection of different ballistics
	Compensation for wind, inclination, cant
	Enables future capabilities addition through software upgrades
Size (L x W x H)	W/O LRF 206 mm X 89 mm X 83 mm W/ LRF 206 mm X 102 mm X 83 mm
Weight	W/O LRF 1120 g (Sight) W/ LRF 1250 g (Sight)
Power Source	Rechargeable Smart Lithium Ion battery pack
	72 hours or up to 3600 SMASH-assisted shots
Laser Range Finder	Optional, up to 1000 m
MIL-STD Compliance	MIL-STD-810G, MIL-STD-461E

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SMASH HOPPER
Light Remote Controlled Weapon Station

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Featuring SMASH Fire Control System (FCS) unique technology, SMARTSHOOTER's SMASH HOPPER is a modular, lightweight remote-controlled weapon station that delivers unmatched precision and lethality. Designed for *one-shot, one-hit* accuracy, the system allows operators to neutralize threats from a safe distance while maintaining superior performance in its weight class.

The **SMASH HOPPER** is available in two configurations:
- **Standard Module**: Featuring all the capabilities described, including precise engagement of ground and aerial targets.
- **Enhanced Night Vision Module**: Designed for superior performance in low-light and nighttime operations, providing advanced night vision capabilities to ensure 24/7 operational readiness.

The SMASH Hopper offers **combat proven** versatile deployment options, including mounting on a standalone tripod, fixed mast, or lightweight vehicle, ensuring portability and adaptability across diverse mission profiles. It effectively neutralizes threats like dismounted hostiles, vehicles, and small drones, making it ideal for urban, border, and infrastructure protection, especially in low-profile operations.

Seamlessly integrating with existing Command-and-Control (C2) networks, the SMASH HOPPER enhances situational awareness and operational efficiency by enabling target sharing across communication systems.

With cutting-edge technology, flexible deployment options, and dual-module configurations, the SMASH HOPPER redefines precision and versatility in remote-controlled weapon stations.

Key Features

- **Compact and lightweight**
- **Automatic scanning and target detection**
- **Accurate engagement of ground targets & small UAVs**
- **Target handoff from various sensors (Sensor-to-Shooter)**
- **Dual-mode target engagement cycle: Automatic & Manual**
- **Day/night capability**
- **Quick weapon installation**
- **Ruggedized remote control unit**

	Standard		Enhanced Night Vision	
	Day	Low Light	Day	Thermal Night
Lock / Track / Shoot	Ground targets: 500m	Ground targets: 200m	Ground targets: 800m	Ground targets: 500m
	Aerial targets: 300m	Aerial targets: 100m	Aerial targets: 600m	Aerial targets: 250m
Weapon Compatibility	M4, DMR Assault Rifles			
Caliber Range	5.56 to 7.62 NATO			
Slew Rate	0.01 - 20 [Deg/Sec] (optional 0.01 - 40 [Deg/Sec])			
Max Acceleration	100 [Deg/Sec]			
Azimuth / Pan Angle	Nx360° (Adjustable Mechanical Limitation)			
Elevation / Tilt Angle	-30° to +70°			
Total Weight	Up to 25 [Kg]			
Max Payload (Balanced)	40 [Kg]			
Input Voltage	24 [V] – 32 [V]			
Power Source	Auxiliary power from host / optional NATO certified battery pack for standalone use			
MIL-STD Compliance	MIL-STD 810			
Operation Temperature	-30° to +55°			

*Aerial targets – Based on UAS same as or similar to DJI Fantom

SMASH Fire Control System

Picatinny Mount

Remote Trigger Unit

Pan / Tilt Unit

Tripod (optional)

Battery

Remote Control Unit

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