

AutoTargets

*DATA-DRIVEN
TRAINING*



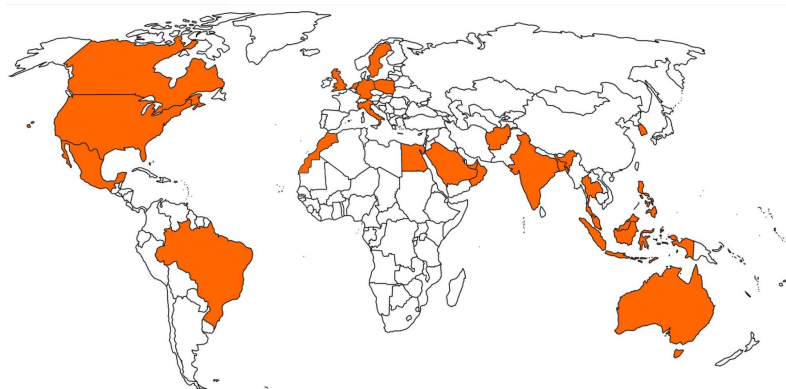
AutoTargets™

Introduction

“Our mission is to provide superior firearms training systems to help prepare for moments of critical consequence.”

Headquartered in Bucks County, Pennsylvania the AutoTargets team has dedicated the last decade to innovation in targetry.

We continue to grow, deploying our products across the globe to customers that need mission critical training and individual improvement.



Founded: 2010

Products: 26

Targets Fielded: 3000+

Countries: 26

AutoTargets

Users

Federal
Military
Law Enforcement
International Military
International LEO
Tactical Training
Commercial
Shooting Industry
Private Individuals



What is AutoTargets?



AutoTargets™

Applications

Line-of-Fire &
Qualification

Shoot House
Automation

MPMG / SIT Ranges

Portable Deployments



Qualification

Shoot House



MPMG / SIT



Portable



Shoot Houses

Middle-East Training Complex - 2018

- 2 shoot houses
- 79 target actuators
- Sensor-activated targets
- Camera-activated targets
- RangeControl Suite
- Custom Command & Control center



Qualification

USAF Special Warfare Training - 2021

- 37 knee wall actuators
- RangeControl Suite
- LaneControl Interfaces with target live view
- Integration w/ 3rd party systems
- Large format workstations for AAR
- Portable controls



MPMG / SIT

USAF Special
Warfare Training -
2021

- 30 target actuators
- 300 yard engagement
- 12 firing positions across 10 acres
- Wireless controls
- After action suite



Portable

Worldwide Portable Deployments Since 2016

- Thousands of devices in 24 countries across 5 continents
- Spans LE, military, and commercial applications
- 1 to 20 device packages
- On-board wireless mesh
- Flexibility to use AutoTargets for Android or ruggedized RangeControl laptops



AutoTargets Infrastructure Comparison Chart

FEATURES	ZERO INFRASTRUCTURE	SITE WIRELESS	FIXED INSTALL
Install & Hardware Costs	–	\$\$	\$\$\$
Target Data	Mesh	WiFi	POE & WiFi
Controls Data	Mesh Bridge *(to one unit)	WiFi	POE & WiFi
Target Power	Li-ion Battery (12h)	WiFi	POE & Battery
Controls Power	Battery	WiFi	POE & Battery
Pneumatics	HPA Tanks (500-650 Lifts / Tank, 20-25 min. Fill Time)	WiFi	Compressor & HPA
Location	Anywhere, Any Time	Anywhere on Your Range	Fixed Target Positions
WiFi Range Target-Target	200m Line of Sight***	Unlimited*	Unlimited*
Controls Range	30-50m to First Target	Unlimited*	Unlimited*
Portability	15lb Target, 35lb Shield No Infrastructure	Unlimited w/ Mesh Failover**	Fixed
Setup Procedure	Charge Batteries, Fill Tanks, Power On Each Target, Verify Connectivity	Charge Batteries, Fill Tanks, Power On Each	One-click Startup
Startup Time	2-10 min. / Target	2-10 min. / Target	One-click 1-2 min. Total

* Wireless range and coverage are determined by customer requirements.

** Mesh Failover - AutoTargets actuators will fall back to their onboard Zero-Infrastructure mesh when range network is unavailable. Allows full portable use of equipment.

*** Line of Sight - AutoTargets actuators (specifically their antennas) must have unobstructed view to one another to communicate reliably at distance. When placing units, it's important to consider topography and obstructions when positioning targets. Range WiFi

AutoTargets

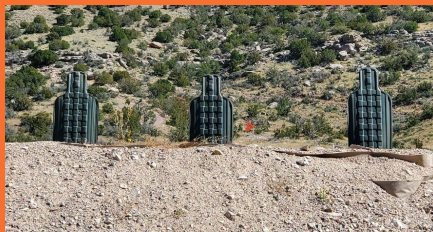
Products

Targets & Hit
Detection

Target Actuators

AutoTargets for
Android™

RangeControl™
Software Suite



AutoTargets

AutoTargets features advanced hit detection, robust target actuators, real-time analytics, and industry leading control software.

AutoTargets is used in virtually all firearms training environments and scales seamlessly from a local gun club to large military training facilities.

Hit Detection Technologies

- Accurate and reliable real-time hit reporting
- Conductive and Kinetic detection options
- Familiar FBI-Q and E-Type target designs
- Support for lethal and non-lethal systems (Simunition™, Airsoft™)
- All weather operation

Industry Leading Software

- AutoTargets for Android™ offers fast and free targetry control, no infrastructure required
- AutoTargets RangeControl™ is the most intuitive, feature-rich targetry control system available
- The LaneControl™ module affords self-service access to training

Robust & Versatile Hardware

- Target actuators weigh less than 15 lbs
- Devices create a mesh network with zero infrastructure or configuration required
- Modular design allows for easy end user service
- Powerful accessories: sensors, cameras, workstations, and more

Services & Support

- On-site and remote training
- Site implementation and qualification
- Network design & installation
- Pneumatics design & installation
- Curriculum design & adaptation
- Custom hardware & software

Conductive Hit Detection

- Conductive Hit Detection
- Multiple zones (3)
- Live-Fire Only
- Requires Jacketed Ammunition
- Federal Q style target
- Scores 500-1000 rounds
- Detects hits while lifting
- All weather
- All small arms calibers
- No standoff
- No spall or splatter



Kinetic Hit Detection

- Vibration-Based Hit Detection
- Single-Zone
- Simulated ammunition (SIMS, UTM & AirSoft)
- Non-Lethal and Live-Fire capable
- Accepts plastic E-Type silhouettes, cardboard, coroplast and rigid photo-realistic targets
- Advanced signal processing eliminates false hits
- Detects hits while lifting
- Muzzle Blast Mitigation system allows close proximity shooting



Target Actuators

Design:

- Modular & Scalable
- Field serviceable
- Light weight
- On-board mesh
- One-button startup
- Upgradeable
- All weather design

Configurations:

- *Standard Pop-Up*
- *Bladed/Multi-Lift*
- *Bullet Trap Mount*
- *Knee-Wall Mount*
- *Magnetic Mount*
- *Kinetic Pop-Up*



Target Actuators

Fixed Installations:

- Power
 - Power over Ethernet (PoE)
- Pneumatics
 - Fixed compressor with custom manifold system
- Infrastructure
 - Embedded - raceways and conduit
- Network
 - Requires RangeControl

Portable Installations:

- Power
 - Battery - rechargeable (appx 12 hr run time)
- Pneumatics
 - Refillable HPA (appx 1500-3000 lifts)
- Infrastructure
 - None required
- Network
 - Android App or RangeControl





AUTOTARGETS™ HIT DETECTION

COMPARISON CHART



Hit Detection Comparison Chart

	CONDUCTIVE	KINETIC
LIVE FIRE		
5.7x28 to 50 BMG	✓	✓
Metal Jacketed Projectiles	✓	✓
Frangible / Polymer / Coated *	X	✓
STAND-OFF DISTANCE (OUTDOORS)		
Supersonic	0m	1-3m
Subsonic	0m	7-10m
Suppressed	0m	1-3m
NON-LETHAL		
Sims, UTM, Airsoft	X	✓
Stand-off Distance	X	0m
CYCLIC RATE		
Rounds Per Minute (max)	3000+	900
SCORING ACCURACY		
Target Zones	3**	1
TARGETS SUPPORTED		
AutoTargets HexLink™	✓	X
Cardboard / Chipboard	X	✓
Photo-realistic	X	✓
Polymer (E-Type / F-Type)	X	✓
CONSUMABLES		
Typical Cost Per Impact	\$0.03	\$0.01

* Conductive targets require metal ammunition to register impacts. Frangible ammunition must be semi-jacketed (e.g. MK311). Copper, copper clad, and copper washed typically perform well. Wax-coated lead projectiles (e.g. 22LR) results will vary and are not recommended.

** HexLink targets offer up to 4 hit detection zones. Standard HexLink targets are FBI-Q style 3-Zones. Custom targets may feature 4 zones.

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AutoTargets Software

AutoTargets App
for Android Devices

RangeControl™
Software Suite



AutoTargets for Android™

- Portable target control
- WiFi™ connected
- Create and save courses of fire
- Simple interface
- Hit reporting, recording, and scoring
- Control up to 10 targets
- Tablet or Smartphone



RangeControl

Advanced range
automation system

- Powerful web interface
- Intuitive course builders
- Live analytics
- After action review
- Range automation tools
- Portable or permanent deployments
- Scalable infrastructure
- Data export and integration



RangeControl

LaneControl Interface

- Lane/shooter designated controls
- Improves qualification speed and pass rates
- Live camera feed w/ intuitive pinch-to-zoom
- User Login & AAR
- Group data & metrics
- Real time scoring
- Scalable deployment
- Configurable data retention policies



AutoTargets Software Comparison Chart

FEATURES	AUTOTARGETS FOR ANDROID™	RANGECONTROL	RANGECONTROL +LANECONTROL
INFRASTRUCTURE			
Requires RangeServer	No	Yes	Yes
Network Options	Zero-Infrastructure Mesh or Range Network	Mesh*, Range Network	Range Network Only
DATA AND REPORTING			
Export Results	CSV (basic)	XLSX (custom)	
Results Storage	No	Yes	
AAR	One Course of Fire	Historical Reporting	
Tag Results w/ Student	Manually (CSV export file name)	Tag in AAR	Student Login (by ID, guest, or QR Code)
Tag Results w/ Custom Data	No	Yes	
Hit Data & Split Times	Per Target Only	Per Target or Tag	Per Lane, Target, User, or Tag
Leaderboards	No	Yes	
SYSTEM ACCESS / CONTROL POINTS			
RSO/Instructor Tablet	Yes	Yes	
Control Rooms, Large Displays, AAR, Classrooms	No	Yes	
Lane Controls, Student Tablets	No	Yes	
COURSES OF FIRE			
Advanced Conditional Courses of Fire	No	Yes	
Simultaneous Courses of Fire	1	Unlimited	
Triggers Control	Each Target	Any Trigger Can Control Any Target or Course of Fire Event	
Recommended System Size	5 to 10 Target Actuators	Unlimited	
Target Exposure Time	Per Target	Per Target Presentation	
Delay Between Exposures	Per Target	Per Target Presentation	
Battlefield Effects: Lighting, Video, Audio, Smoke, Pyro	No	Yes	
VIEWS			
Custom Target Layouts	Yes, Limited	Yes, Fully Custom	
Custom Range Graphics	No	Yes	
Manage Multiple Ranges	No	Yes	
SYSTEM ADMINISTRATION			
Turn Actuators Off	Per Target	Per Target or Per Range	
Turn Actuators On	No	Yes**	
Install Firmware Updates	Per Target	Per Target or Per Range	
FACILITY AUTOMATION			
Lighting & HVAC Controls	No	Yes	
CAMERA SUPPORT			
Target Camera Live Video Feed per Lane	No	No	Yes

*Limited, please discuss with an AutoTargets System Expert for best practices.

**Requires Power-Over-Ethernet infrastructure.

AutoTargets Cost Analysis Case Study:

Philadelphia Police Department

Cost Analysis Case Study

Cost to Train Officer

Case Study Philadelphia Police Department

- 5544 Full time Officers
- Starting Patrol Officer salary of \$66,183/yr (after graduating PPD Training Academy)
- Based on 250 working days/yr. - no overtime
- Cost per Officer, to Department for an 8-hour training day: \$264.73
- Cost per Officer, per Hour \$33.09/hr

One Hour Reduction in Training Time Across Entire Department

- **\$183,459 per year**
- Full Return on Investment in First Year
- 5544 Man-Hour availability increase across Officer base per year
- Potential for consolidation of Firearms Training and Qualifications (Pistol, Rifle, & Shotgun)
- Average reduction in training time using AutoTargets - 25% (minimum)
 - Includes data collection, analysis, & administrative efficiency

Three Hour Reduction in Training Time Across Entire Department

- **\$550,377 per year**
- 16,632 Man-Hour availability increase across Officer base per year
- Consolidation of multiple weapon platform qualifications

Learn More



AutoTargets Range Control User Guide:

http://files.autotargets.com/AutoTargets_Range_Control.pdf



AutoTargets for Android™ User Guide:

http://files.autotargets.com/AutoTargets_App_User_Guide.pdf



Range Control Demo Environment

demo.autotargets.com



USASOC Sniper Competition 2019
AutoTargets in Every Environment

[2019 Sniper Competition
Live Environment Training](#)



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