



DESCRIPTION

AutoTargets™ is a reactive target system that includes advanced hit detection and onboard analytics. The patent-pending Hex Link™ targets sense projectiles as they pass through the target material. The system is designed with portability in mind and requires no infrastructure. The free, downloadable App controls the system with any Android™ WiFi enabled device. Lift units automatically connect to one another over a long-range mesh network allowing for flexible deployments in any environment. Permanent or more advanced range installations can be hardwired to achieve training missions of any scale. Targets present as either pop up or swing up with specialized mounting options for any training environment.

USE

Safe for indoor ranges and robust enough for any outdoor environment, this system can be found on diverse shooting ranges and in shoot houses all over the world. AutoTargets enhances training and the shooting experience for all small arms weapons training at short or long distances. The AutoTargets Kinetic configuration can be deployed in any instance where common Stationary Infantry Targets (SITs) would be considered

and is both safe and effective for all calibers and training platforms from AirSoft to .50 BMG. Instructors can use the intuitive interface to create courses of fire and capture hit data and training efficiency in real time. A powerful After Action Review suite provides ultra-modern analytics, scoring, ranking, and other performance measurement tools.

SPECIFICATIONS

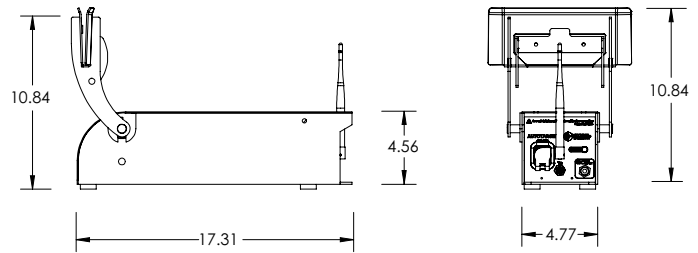
AutoTargets is engineered to provide maximum flexibility on the range. Lift Units are available as standard lifting kits (pop-up style) or side lifting kits (swing-up style). Proprietary live-fire Hex Link or Plastic E-Type Silhouettes are required for use with AutoTargets Lift Units for hit sensing functionality. Each Lift Unit can be placed directly on the ground, behind a knee wall, or attached to surfaces with mounts. Lift Units can be used with Portable Bullet Traps with specialty mounts. Lift Units are designed to work with commercially available CO2 and HPA tanks or be connected to clean compressed air, both at 60 PSI (80 PSI for E-Types). The standard WiFi antenna provides connectivity up to 250 yds with line of sight from target to target. Optional equipment can extend the range up to 1,000 yds or provide coverage where line of sight is not available.

TARGET MOVEMENT	
Pop-Up	✓
Swing-Up / Peak Out	✓
Bullet Trap	✓
Movement Speed	0.50-0.75 seconds
TARGET TYPE	
Hex Link™	✓
E-Type	✓
CONTROL SOFTWARE	
Android App	✓
Range Control Suite	✓
Lane Control	✓
POWER	
Air Requirement	60-80 psi
Low Voltage	12 to 24VDC
COMPATIBLE ACCESSORIES	
Ballistic Shield	✓
Soft-Side Carrying Case	✓
Android Tablet	✓
Wall Mount	✓
Motion Sensors	✓
WIFI RANGE	
250 Yds	✓
1000 Yds	✓

✓ Standard Feature ✓ Optional Feature

LIFT UNIT

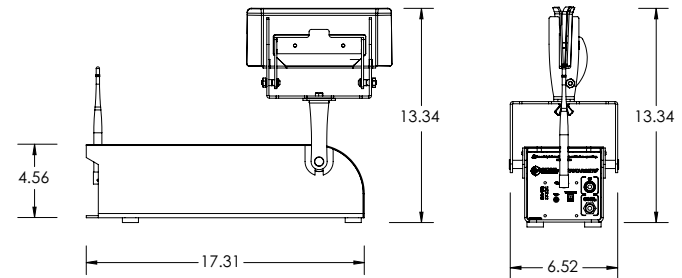
- Pneumatics: One 20oz CO2 tank provides 1000 lifts across up to 10 daisy-chained units*.
- Electronics: Standard 3 cell 2600 mAh battery provides 12 hours of typical use.
- Full Footprint with Target Down: 50.375" x 16"
- Full Height with Target Up: 39.696"
- Weight: 15 lbs
- Target Presentation Speed: 0.5–0.80 seconds
- Operating Temperature: 0–120° F
- Deployable on ground, attached to a stand, or mounted to shoot house walls**



MULTI-LIFT UNIT

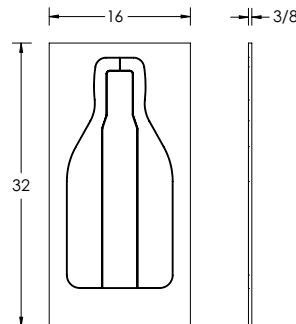
Enhancements over standard Lift Unit:

- Adjustable range of motion; 0-90 degrees
- Rotateable target clamp; 8 positions
- Full Footprint with Target Down: 52.875" x 16"
- Full Height with Target Up: 42.2"



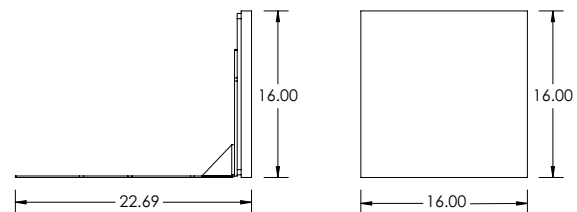
HEX LINK TARGET

- Size: 16" x 32"
- Construction: Rigid, multi-layered laminate
- Supported Ammunition:
 - Conductive projectiles .22 LR to .50 BMG
 - Shotgun must use #4 buckshot or larger
- Estimated Target Life: 500–1000 rounds, based on caliber



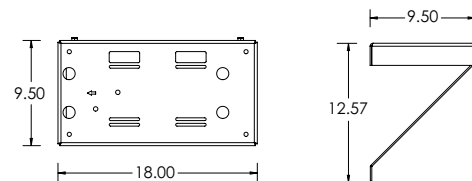
BALLISTIC SHIELD

- Steel: 3/8" AR500 ballistic steel
- Weight: 45 lbs
- Fascia: Rubber panel (contains splatter)
- Includes: CO2/HPA Tank Mount



SHELF MOUNT

- Use to mount Multi-Lift Units to walls
- Ideal for shoot house automation
- Includes hardware and velcro straps
- Powder coat finish



* Freezing temperatures may reduce the ability to daisy-chain lift units.

** Requires optional mounting bracket.

*** Shotguns wear targets faster.

AUTOTARGETS™ KINETIC

Technical Data Sheet



DESCRIPTION

AutoTargets™ Kinetic Lift Units provide a robust, all-weather solution for training on portable or fixed position shooting ranges. This Lift Unit features upgraded pneumatics, redundant hit detection for small arms projectiles from AirSoft up to .50 BMG, and enhanced long-range WiFi.

USE

The AutoTargets™ Kinetic hit detection system is a feature-rich, low-cost competitor to traditional Stationary Infantry Targets (SITs), which are common in military and defense training. The portable option is deployable anywhere in the world and can convert any range area into a state-of-the-art live-fire training environment. Hardwired deployment options support year-round training in multiple range configurations including multi-purpose machine gun, sniper field fire, squad and recon training, and any other instances where SITs are typically used. This system can be integrated into non-live-fire shoot house training. Kinetic Lift Units can be operated and controlled via on-board WiFi through the AutoTargets App available for Android™ or through the advanced AutoTargets Range Control Software over a dedicated low voltage local area network.

SPECIFICATIONS

The Kinetic Lift Unit is available as a portable or hard-wired pneumatic system. It supports a 90-degree range of motion as a “pop-up” style target, and is also available in a multi-lifter configuration. The curved locking target clamp can receive E and F type silhouettes with DoD target system mounting hole as well as many standard corrugated target backers. Approved E-Type Target (NSN 6920-00-071-4780 and NSN 6920-00-071-4589)

Active digital signal processing filters out non-hit noise; hits can be detected during target movement. A proprietary MuzzleBlast Control System (MBCS) allows for close standoff distances (~5 yds) for super-sonic projectiles. This technology works both indoors and outdoors, with or without suppression, and dramatically reduces false positive hits relative to comparable SITs. Advanced filtering allows high cycle rate detection of 900 rounds per minute without calibration.

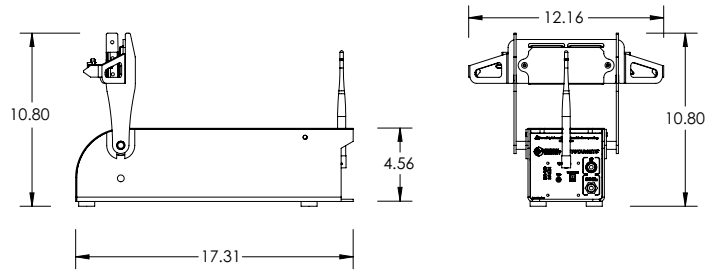
TARGET MOVEMENT	
Pop-Up	✓
Swing-Up / Peak Out	✓
Movement Speed	0.8 seconds
USE	
Live Fire Any Projectile	✓
Training Ammunition	✓
Standoff Distance	5 yards
Maximum Rate of Fire	900 rpm
Wind Rating	25 mpg
POWER	
Air Requirement	80 psi
Low Voltage	12 to 24VDC
CONNECTIVITY	
WiFi Mesh Networking	✓
Ethernet (PoE)	✓
CONTROL SOFTWARE	
Android App	✓
Range Control Suite	✓
Lane Control	✓
COMPATIBLE ACCESSORIES	
Ballistic Shield	✓
Soft-Side Carrying Case	✗
Android Tablet	✓
Wall Mount	✓
Bullet Trap Mount	✗

✓ Standard Feature ✓ Optional Feature

AUTOTARGETS™ KINETIC LIFT UNITS COMPONENT SPECIFICATIONS

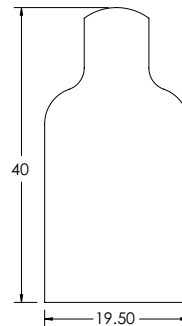
KINETIC LIFT UNIT

- Pneumatics: One 20oz CO2 tank provides 400 lifts across up to 6 daisy-chained units*.
- Electronics: Standard 3 cell 2600 mAh battery provides 12 hours of typical use.
- Full Footprint with Target Down: 58.375" x 16"
- Full Height with Target Up: 47.8"
- Weight: 15 lbs
- Target Presentation Speed: 0.5–0.80 seconds
- Operating Temperature: 0–120° F
- Deployable on ground, attached to a stand, or mounted to shoot house walls**



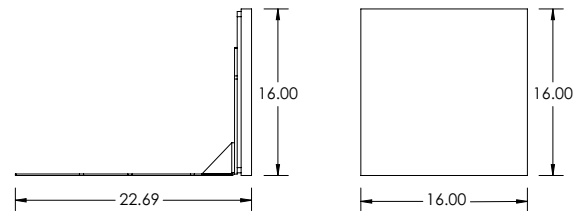
E-TYPE TARGET

- Size: 19.5" x 40"
- Construction: Molded Polymer
- Supported Ammunition:
 - All metallic and non-metallic live fire projectiles
 - All training ammunition (UTM, Simunitions, Airsoft)
- Estimated Target Life:
 - Live Fire: 1000 to 5000 rounds
 - Training Ammunition: Infinite
- NSN 6920-00-071-4780 & NSN 6920-00-071-4589



BALLISTIC SHIELD

- Steel: 3/8" AR500 ballistic steel
- Weight: 45 lbs
- Fascia: Rubber panel (contains splatter)
- Includes: CO2/HPA tank mount



FEATURES		AUTOTARGETS™ KINETIC	LEGACY SYSTEMS
False Hit Prevention	Muzzle Blast	Allows for close standoff distances (~5 yds)	Must maintain long standoff distances
	Target Movement	Active digital signal processing detects hits during target movement	Sensors must "blank" during movement to not record false hits
	Caliber Changes	Calibration not required	Caliber or environmental changes require re-calibration
	Rapid Fire	900 rounds per minute without adjustment	Requires adjustments when changing firing rates

AUTOTARGETS™ ANDROID™ APP

Technical Data Sheet



AutoTargets

FEATURES

- Advanced targetry control in any environment
- Free and secure through Google Play Store™
- Create, save, and edit courses of fire
- Quick setup with basic courses of fire ready in seconds
- Advanced courses of fire
- View live hit data
- After Action Review with export feature
- Support for trigger control including motion sensors and door sensors
- Compatible with all Autotargets lift units and target configurations
- No cellular networks or infrastructure required

DESCRIPTION

AutoTargets™ App provides advanced wireless target controls for up to 20 AutoTargets lift units simultaneously. Targets can be placed anywhere and in any environment. Target positions are represented on a mapped reference screen. Users can set each target's hit-to-fall parameters, including timeout, score requirement, shoot/no shoot, and presentation sequence. On the screen, hits are reported through sight and sound, providing immediate feedback to shooters. The intuitive interface allows users to quickly and easily create complex courses of fire with unlimited steps, delays and target presentations. Each scenario can be saved and named to be used again without limits. As each course completes, a performance report is generated showing targets hit, time and location of hits, split times, overall course time and score. This report can be exported to a spreadsheet and stored on the device or emailed.

USE

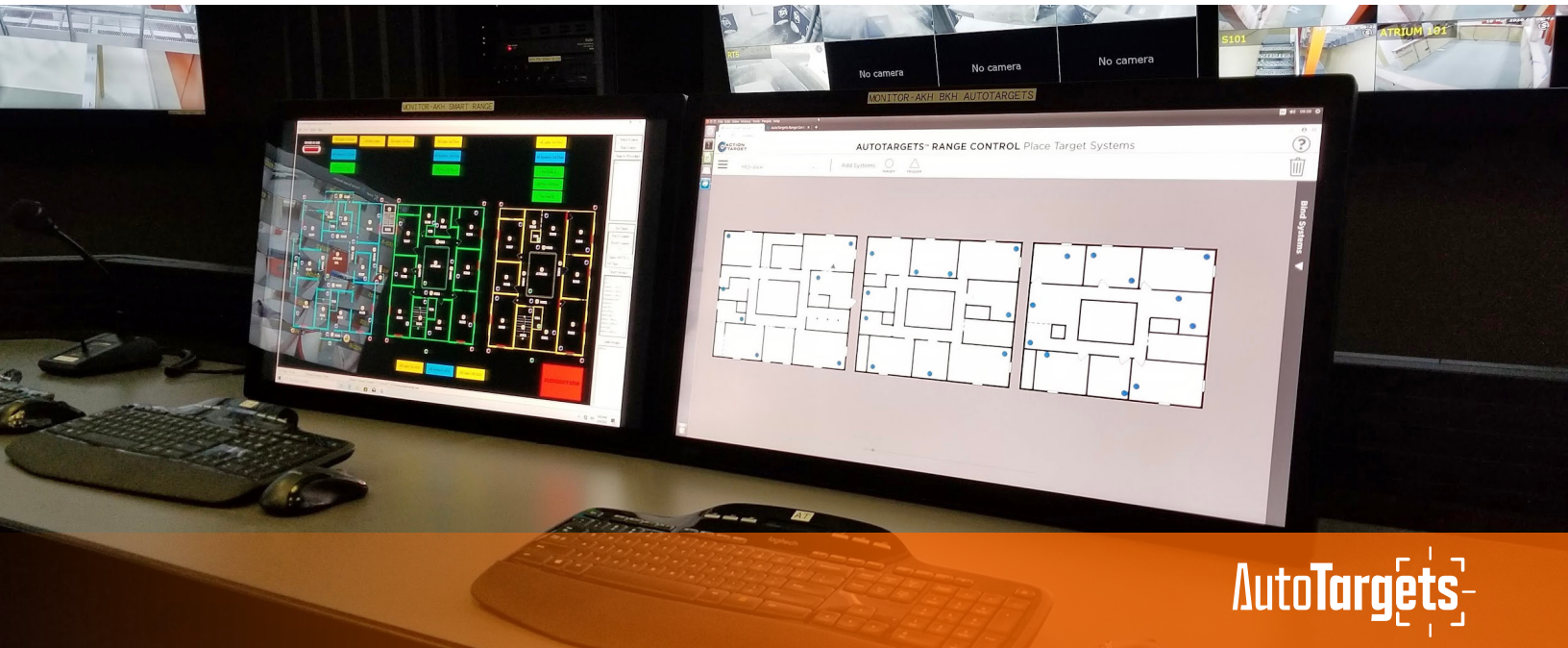
The App allows users anywhere in the world to deploy the portable AutoTargets training system. Absolutely no network infrastructure is required. The App supports firearms skills development in qualifications, advanced tactics, and competitions. It controls systems on indoor, outdoor and shoot house style ranges.

SPECIFICATIONS

The target control software is developed for the Android™ platform. Updates and enhancements are provided through Google Play Store™. The Samsung Galaxy Tab Active Pro is a preferred device for its size at 10.1 inches, its processing power at 1.7GHz, 4 GB RAM, multi-band WIFI, 15 hour battery life and rugged IP68 rated build and MIL-STD-810H compliance. The App may function on any Android device, but results may not be optimal.

AUTOTARGETS™ RANGE CONTROL SOFTWARE

Technical Data Sheet



DESCRIPTION

AutoTargets™ Range Control Software is a multi-functional firearms training system designed to modernize weapons qualification, combat preparation, and decision-making tactics. This software controls target function on the range and records valuable training data for After Action Review. The scalable system can support training for a wide range of needs, from cadets to special operators. AutoTargets RCS processes shot record data from smart Hex Link™ targets. Targets record shot placement and shot times, including splits. The system also supports single-zone E-type plastic silhouette scoring. AutoTargets RCS can integrate outside systems like cameras and networking for other range control functions. Expansion modules such as Lane Control Interface (LCI) and custom external product integration are available.

port small arms training in indoor, outdoor, and shoot house environments. Software supports portable training deployments with integrated wireless networking for remote or reconfigurable operations. AutoTargets RCS allows simultaneous control of multiple ranges and was designed from the ground up for the largest and most sophisticated training facilities in the world. Instructors manage all aspects of range function from range setup, courses of fire, equipment management, and an advanced After Action Review. This module validates curriculum through performance measurement.

SPECIFICATIONS

Linux-based servers available in multiple configurations including desktop, wall, or rack mount can include optional triple redundant backup for long-term data storage. Systems are available with smart power conditioning and programmable power sequencing to support dynamic network deployment. Workstations come with two HD monitors, keyboard, and mouse. Expansion and portable tablet options available.

USE

The AutoTargets Range Control systems provide real-time control of targets, allowing instructors to create meaningful and relevant courses of fire. These systems sup-

FEATURES

- Scalable deployment options
- Wireless and hardwired networked systems
- Intuitive course of fire builder
- After Action Review
- Scoring and performance metrics
- Long-term storage and data export
- Portable system controls
- Integrates with multiple range products

RANGE CONTROL DEMO

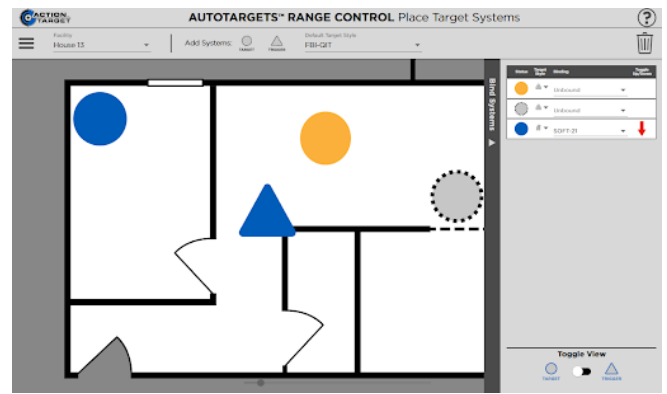


demo.autotargets.com

AUTOTARGETS™ RANGE CONTROL SOFTWARE SPECIFICATIONS

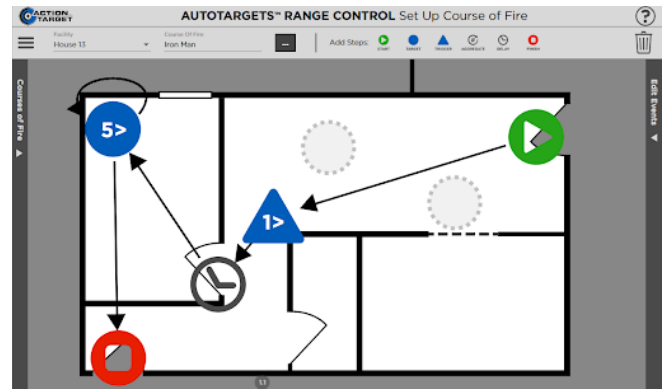
CREATE YOUR RANGE

- Upload your range's layout. Supports .png, .jpg, .svg file types.
- Place targets on your range and link to AutoTargets Lift Units.
- Place triggers on your range (motion sensors, door switches, optical tripwires, etc).



CREATE COURSES OF FIRE

- Drag and drop user interface, no scripting required
- Create target presentations and set their hit requirements
- Choose what happens when trigger events occur
- Add fixed or randomized delays
- Follow the arrows to see the courses flow through the range



EXECUTE COURSES OF FIRE

- Start and stop any number of courses of fire from anywhere on the range
- Adjust how a course of fire runs with manual intervention or enjoy end-to-end automation
- Automatically store course of fire results for analysis
- Leverage the After Action Review module to see moment-by-moment breakdowns of a shooter's performance

Type	Event	Start (s)	Finish (s)	Duration (s)
>	SOFT-21 - Presented	8.61	8.61	0.00
>	SOFT-21 - Complet...	4.88	7.58	2.70
	Action	Time (s)	Split (s)	
	Completed	7.58	0.00	
	Hit - Left	7.58	2.70	
	Presented	4.88	0.00	
	2.5 s	2.41	4.87	2.46
	SOFT-22 - Triggered	0.00	2.41	2.41
	Start	0.00	0.00	0.00

EQUIPMENT MANAGEMENT

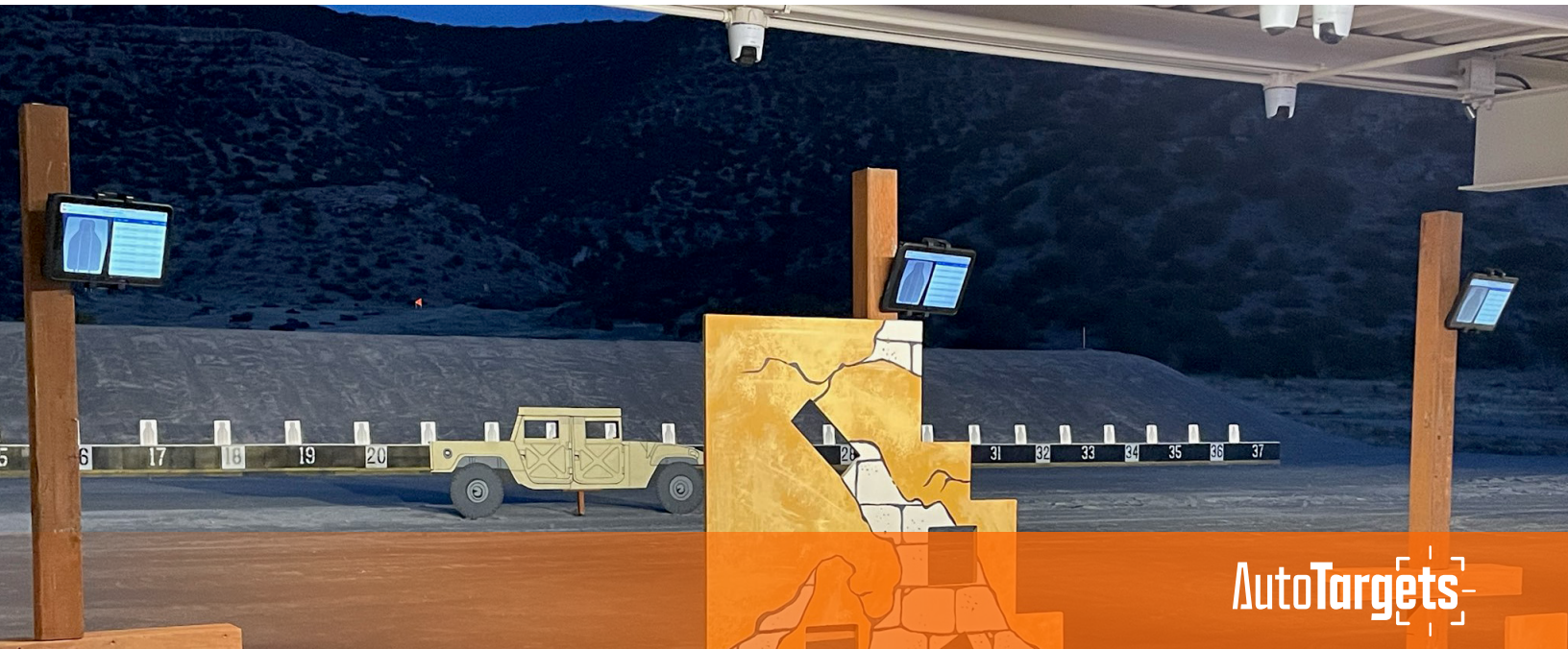
- Monitor targetry equipment status
- Update targetry firmware
- Adjust targetry settings
- Perform batch actions (Power Off, Update Firmware)
- Power on targetry (applies to PoE enabled units only)
- Monitor range network status

AUTOTARGETS™ RANGE CONTROL Equipment Management						
Batch Actions: ALL [ALL OFF] [UPDATE ALL]						
Stat...	Peripheral Status	Power Status	Serial	Alias	Bound Range(s)	Software Version
•	•	N/A	SOFT-1	QT01	50M	21-SNAPSHOT - Thu, 13 Aug 2020 19:00
•	•	N/A	SOFT-2	QT02	50M	21-SNAPSHOT - Thu, 13 Aug 2020 19:00
•	•	N/A	SOFT-3	QT03	50M	21-SNAPSHOT - Thu, 13 Aug 2020 19:00
•	•	N/A	SOFT-4	QT04	50M	21-SNAPSHOT - Thu, 13 Aug 2020 19:00
•	•	N/A	SOFT-5	QT05	50M	21-SNAPSHOT - Thu, 13 Aug 2020 19:00
•	•	N/A	SOFT-6	QT06	50M	21-SNAPSHOT - Thu, 13 Aug 2020 19:00
•	•	N/A	SOFT-7	QT07	50M	21-SNAPSHOT - Thu, 13 Aug 2020 19:00
•	•	N/A	SOFT-8	QT08	50M	21-SNAPSHOT - Thu, 13 Aug 2020 19:00
•	•	N/A	SOFT-9	QT09	50M	21-SNAPSHOT - Thu, 13 Aug 2020 19:00
•	•	N/A	SOFT-10	QT10	50M	21-SNAPSHOT - Thu, 13 Aug 2020 19:00
•	•	N/A	SOFT-24	FOUR	50M	21-SNAPSHOT - Thu, 13 Aug 2020 19:00
•	•	N/A	SOFT-11	FOUR	50M	21-SNAPSHOT - Thu, 13 Aug 2020 19:00
•	•	N/A	SOFT-12	THREE	50M	21-SNAPSHOT - Thu, 13 Aug 2020 19:00

SOFT-1 [QT01]
Your Workpage
Alias: QT01
Target Full Time (s) *
2
Insert Target Position *
NO
Saturated Full Duration (s) *
2
Saturated Full Duration (s) *
5
Target Technology Type *
HISync

AUTOTARGETS™ LANE CONTROL

Technical Data Sheet



DESCRIPTION

AutoTargets™ Lane Control (LCI) is an add-on module to the AutoTargets Range Control Software. The LCI supports additional hardware down range, including high resolution cameras and lane-specific tablets for independent control of each training position. This software enhancement connects cameras, control software, and tablet controls through a WiFi network for an unparalleled user experience.

USE

Students receive an Android™ tablet that is paired to a lane on the range. Students sign in to that position and select from instructor-provided courses of fire. Students can operate independently and simultaneously at their own pace, or under the command of the range master control. Target hit data, pass/fail and other metrics are shown on the tablet display and saved in the Range Control's After Action Review. Data can be

sorted and exported to create leaderboards or to track student progress. LCI also integrates HEX Link™ target technology, which removes the need for shooters to go down range and replace targets during training. The integrated camera allows shooters to see shot placement in real time. The live-view portion of the software is zoomable to aid in weapons sighting and shot group evaluations. Every aspect of LCI has been developed to improve efficiency and create a more effective training environment.

SPECIFICATIONS

The LCI is not a stand-alone system and requires deployment and integration into an AutoTargets range with Enterprise-level Range Control Software.

The Range Control Software and Range Control Server data sheets should be consulted for details.

FEATURES
Independent lane control
Simplified control interface
On-screen target view with zoom
Rangemaster control/override
Course builder
Real-time analytics for students
After Action Review
Course pass/fail data
User/shooter profiles
Long-term data storage

AUTOTARGETS™ LANE CONTROL COMPONENT SPECIFICATIONS

QUALIFICATIONS

In real-world applications the Lane Control system reduces the time to qualify by more than 94%. Case studies show a full-day paper qualification is completed in only 30 minutes using AutoTargets.



USER LOGIN

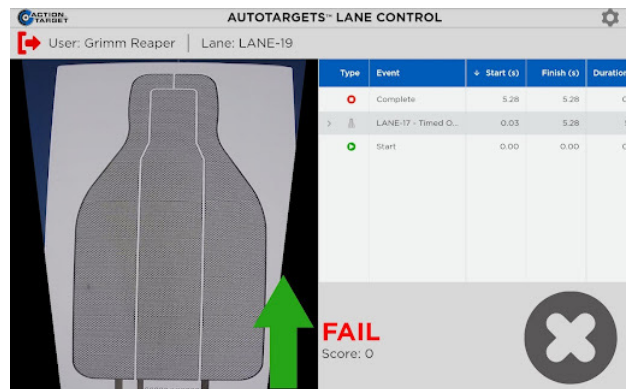
- Keep classes moving efficiently with instant user login QR codes.
- All user actions are automatically tagged for later review.
- Sort and filter data to see measurable performance over time.



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Barney
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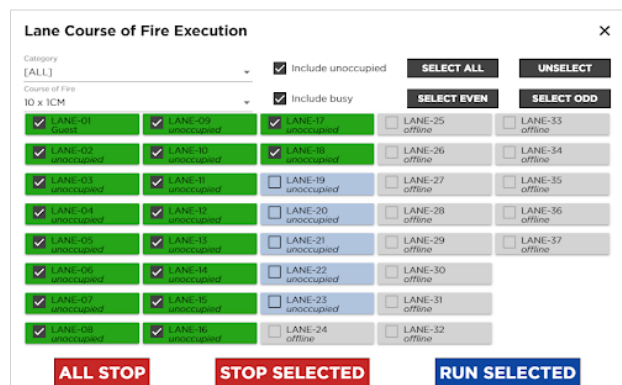
SELF-SERVICE TRAINING

- Curriculum created in Range Control is automatically available in Lane Control.
- Exercises can be grouped for easy student access.
- Students can practice autonomously and asynchronously, getting the most out of your range day.
- Independently train on the skills a student needs, with no trips down range.



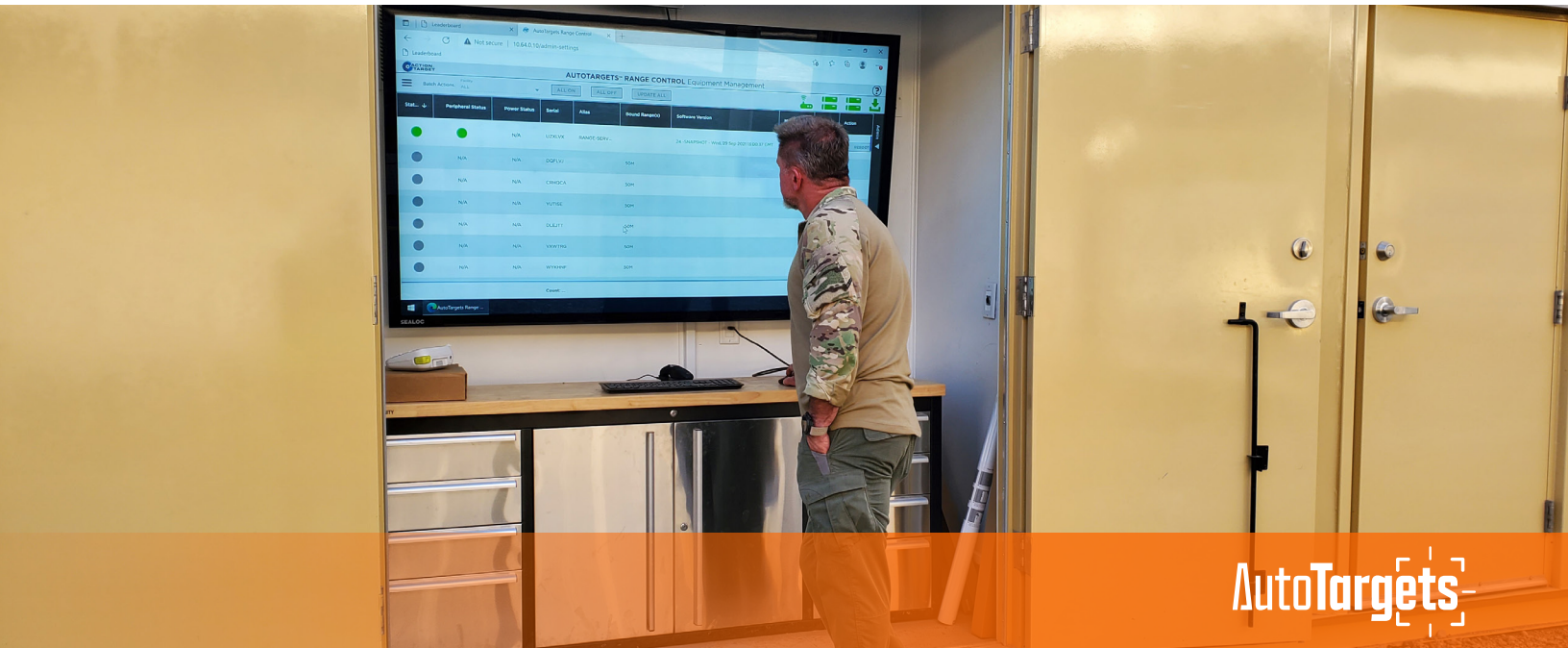
MASTER CONTROL

- Quickly manage a complex qualification on a large scale.
- Dispatch different courses of fire to different groups of lanes.
- See lane status and lane user.
- Filter and select the correct course of fire and execute on ALL, ODD, or EVEN lanes.
- Emergency ALL STOP.



AUTOTARGETS™ LARGE FORMAT WORKSTATION

Technical Data Sheet



DESCRIPTION

AutoTargets™ Large Format Workstations provide a multi-purpose networked video and audio upgrade to support training operations using AutoTargets Range Control Software as well as other on-range training programs and technologies.

USE

Instructors use the Large Format Workstations to create classrooms on the range. These specialized stations can be integrated anywhere on the range or into ancillary facilities for indoor, outdoor or shoot house style ranges. Stations can be scaled to specific organizational needs. Each 4K UHD monitor is linked to the range server to visibly display relevant data from training exercises through the After Action Review. Reports and shooter rankings are displayed, allowing for an interactive experience. Each workstation is a multi-purpose hub that

can integrate and manage other software, programs, and training tools on the range. Cameras, DVR/NVR technologies, and internet connectivity can be integrated if desired. These workstations also work as additional full-scale control points for range operations managed through AutoTargets Range Control Software.

SPECIFICATIONS

Large Format Workstations include high resolution 4K UHD monitors ranging in size from 40" to 85" classes with multiple monitor scaling as projects require. Each workstation includes typical desktop hardware such as a keyboard and mouse. Workstations operate through a network connected Linux-based terminal. Processing power and video input and output requirements are scalable to meet range plan requirements and desired external systems integrations.

FEATURES

Large UHD display

Classroom view for training results

Range facility enhancement

Leaderboard creation

After Action Review

Alternate range control environment

Camera and other tech integration

Real-time view of courses

AUTOTARGETS™ RANGE CONTROL SERVER

Technical Data Sheet



AutoTargets

DESCRIPTION

AutoTargets™ Range Control Server is the hardware component required for AutoTargets Range Control Software. The server is available in three standard iterations depending on project scope and range needs: Standard, Advanced, and Enterprise. Custom project development is available at the Enterprise level.

USE

The server is deployed to support ranges running advanced AutoTargets Range Control Software. It enables data storage, portable and fixed position target controls, power and equipment management, data

analytics processing, and communication to networked range systems. Depending on the range size or environment, the server can be portable, desktop, or rack mounted.

SPECIFICATIONS

Linux-based servers available in multiple configurations including desktop, wall, or rack mount. Optional high-availability and disaster recovery systems are available with off-site data storage. Systems can include smart power conditioning and programmable power sequencing for single-breaker range startup. Portable servers are typically Toughbook-style hardware meeting or exceeding MIL-STD-810G.

FEATURES

- Scalable deployment options
- Wireless and hardwired networked systems
- Utilizes AutoTargets™ Range Control Software
- Remote Support Gateway (4G)
- Long-term storage and data export
- Portable control options
- API for system integrations

AUTOTARGETS™ RANGE CONTROL SERVER SPECIFICATIONS

STANDARD

- 1-20 Units
- 1-3 Client Tablets
- 1 Facility
- Unlimited Courses of Fire
- Unlimited Triggers
- After Action Review Module
- Basic Data Storage
- Custom Range Layouts



ADVANCED

Standard Plus:

- 21- 35 Units
- 1- 5 Client Tablets or Workstations
- Support for special purpose hardware (laptop server, large format workstations)
- Redundant on-site storage with remotely supported data recovery*
- After Action Review xlsx data extract
- Customer-defined hit profiles & scoring
- Supports PoE targetry power management (ON/OFF)



ENTERPRISE

Standard & Advanced Plus:

- 36+ Units
- 1- 50 Client Tablets or Workstations
- 2+ Facilities
- Camera integration (triggers)
- Support for Lane Control and Qualification ranges
- User Management w/ QR Code Rapid Login
- Optional high availability, disaster recovery, offsite backups*
- Support for large-scale control rooms / AAR theaters



SERVICES & CUSTOM PROJECTS

- On-site support and maintenance packages
- Remote Support Gateway
- Training, Initial & Recurring
- Custom integrations (e.g. data export/import, battlefield effects, site power management, etc.)
- Large-scale & challenging network deployments
- Engineering services