



Digitizing Marksmanship

AccuShoot YFX

The world's first long-range dynamic target shooting system

The AccuShoot YFX (Yonder Fire Experience) is the world's first long-range shooting system with dynamic targets. This breakthrough advances marksmanship training to a level never experienced before, enabling shooters and instructors to operate at distances and in environments that were previously impractical.

By combining advanced wireless technology, ballistic protection, and off-grid power, **AccuShoot YFX** enables seamless long-range operation. The system integrates directional RF transmission, repeaters, and armored enclosures to ensure reliability, durability, and safety in real-world conditions.

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Certain AccuShoot features and technologies are patented or patent pending in the U.S. and other countries.

Long-range shooting of the future – now

Imagine a training range where shooters engage dynamic, moving targets at long distances and every shot—X, Y, and timestamp—is captured as actionable data. Instructors monitor performance and provide corrections in real time, even when targets are hundreds of meters away, or they can simply view a live table of offsets and receive automatic adjustment recommendations. **Stop imagining:** AccuShoot **YFX** extends the LFX platform for long-range training, pairing realistic, video-based scenarios with precise telemetry so you can zero quickly, run advanced tactical drills, collect load-specific ballistic data, and turn every session into measurable progress. Durable, deployable, and easy to set up, YFX brings next-generation long-range training to any range—enjoyable, repeatable, and measurably effective..



Who is YFX for?

AccuShoot YFX now scales marksmanship training beyond the lane. We've transformed the industry's most dynamic live-fire training platform into the world's first long-range dynamic target system — delivering moving targets, instant telemetry, and instructor control across extended distances. Ruggedized with AR500 protection and mission-grade off-grid power, this package turns local drills into realistic long-range engagements that build judgment, precision, and confidence like nothing before.



➔ **Tactical & Sniper Teams:**

Designed for law enforcement and special-operations units requiring realistic, scenario-based long-range training. YFX supports dynamic target behavior and real-time instructor control so teams can rehearse mission-relevant drills, refine engagement tactics, and capture detailed telemetry for after-action review.

➔ **Long-Range Competitive Shooters:**

Competitive shooters benefit from YFX's precise X/Y/timestamp telemetry and video scenarios that simulate match conditions. Use it to practice range management, timing, and dynamic target transitions while tracking measurable performance gains across sessions.

➔ **New Recruits & Shooters Learning Long Range:**

Ideal for new shooters and recruits who need fast, repeatable progress: YFX's data-driven approach makes zeroing and foundational long-range skills accessible by providing immediate feedback at both shooter and instructor stations, intuitive drills, and guided scenarios that accelerate safe competence.

➔ **Ballistics & Ammunition Load Experts:**

For users who require high-quality data to refine ammunition loads, YFX captures repeatable shot telemetry and environmental context so you can analyze group sizes, point-of-impact shifts, and create load-specific ballistic records—streamlining load development and quality assurance.

➔ **Ethical & Precision-Focused Hunters:**

Hunters who prioritize one-shot ethics and precise terminal performance can use YFX to validate zeroes, test real-world ammo and optics combinations, and practice realistic scenario-based shots—ensuring greater confidence and accuracy in the field.



Converting AccuShoot LFX into a long-range shooting system (YFX)

Transforming AccuShoot LFX into a long-range shooting system is technically straightforward and low-to-moderate risk. Components are off-the-shelf: a high-gain Yagi antenna on the LFX radio, a long-range Wi-Fi receiver/repeater on the instructor side, coax with matching RP-SMA connectors, and AR500 armored boxes for ballistic protection and ruggedness. The design preserves LFX functionality while greatly extending the usable distance for telemetry/video/control.

- ➔ LFX base unit uses a Wi-Fi radio with an externally accessible RP-SMA antenna connector OR internal antenna with available modification point.
- ➔ Instructor side can deploy a C. Crane long-range receiver/repeater (powered, with configurable SSID).
- ➔ Power for LFX can be mains or via a portable power station (EF ECOFLOW DELTA Max 2000) placed in an armored box if mains is unavailable.



Topology & functional description

Roles

- ➔ **LFX side:** LFX screen or XL LFX screen for larger projections. LFX box mounted inside an AR500 enclosure. An EF ECOFLOW DELTA Max (inside an AR500 box) supplies power via its AC output to the LFX box. The LFX radio becomes the station/AP that transmits telemetry. A Yagi antenna focuses the LFX radio's transmit/receive energy toward the instructor site.
- ➔ **Shooter side:** Shooters can be positioned hundreds—or even thousands—of meters from the LFX side. They can move or advance toward targets as directed by the instructor, or they can operate near the instructor site.
- ➔ **Instructor side:** A C. Crane unit acts as a long-range receiver to pick up the weak LFX signal and re-broadcast it locally as an AP for instructor devices. Alternatively, configure the C. Crane unit as a transparent bridge. An iPad or similar tablet receives data in real time or can be used for solo operation.

YFX extends the LFX experience to hundreds of meters—or even kilometers—while preserving dynamic features such as target movement and real-time scoring, delivering low-latency control in a fully deployable, rugged, repeatable package.



Converting AccuShoot LFX into a long-range system with the listed hardware is a practical, low-to-moderate complexity upgrade using proven off-the-shelf components. The primary enablers are the 25 dBi Yagi on the LFX side and the C. Crane long-range repeater on the instructor side. Protecting electronics and the battery with AR500 armored boxes increases durability and security.

AccuShoot YFX is a leap forward in firearms training—an upgrade that extends the AccuShoot LFX platform to long-range engagements. It delivers the fidelity and realism of extended-distance shooting while preserving the control, safety, and data capture instructors rely on. Whether you're a tactical team, professional range operator, training academy, reloader, long-range enthusiast, or avid hunter, this turnkey enhancement prepares shooters for the distances and complexity of real-world engagements—today. All of this can be fielded for less than \$5K (parts only; installation and site prep not included).

