FinishLynx Photo-Finish & Fully Automatic Timing
High School Track & Field Packages

Everything You Need For FAT

✓ EtherLynx Vision Photo-Finish Camera
✓ EasyAlign 2-D Video Alignment Mode
✓ NFHS & USATF Approved Results
✓ Trusted by 2,400+ US High Schools

Find the Right FinishLynx Package for Your Program Now

Lynx System Developers, Inc.

2018-2019
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Fully Automatic Timing

Your 1 - 2 - 3 Guide to Fully Automatic Timing

What is Fully Automatic Timing?

Fully Automatic Timing – or FAT – is the standard required today by every regulatory body in Track & Field. In general, the requirements of an approved FAT system include:

1. The timing must be started automatically by the signal from the starting apparatus (like a starter pistol in Track and Field)
2. The system must be capable of producing printed images showing the times
3. It must be capable of timing to a precision of at least 1/100th second

FAT is mandated for record ratification at all levels, from the International Association of Athletics Federations (IAAF) to the National Federation of High Schools (NFHS).

If, and only if, a timing system meets all of these requirements, can it be used to sanction meet results for new state, national, and international records.

Are FAT Systems Complicated?

Absolutely not – There are three main components to a basic digital line-scan FAT system:

- **Photo-Finish Camera** – A photo-finish camera aimed at the finish line captures 1,000 fps for accurate, time-stamped results images approved by the NFHS.
- **FinishLynx Software** – Powerful timing and results software captures photo-finish results and integrates hardware like scoreboards, wind gauges, and additional cameras.
- **Start Sensor** – An integrated start sensor detects the start signal and instantly relays it to FinishLynx for accurate Fully Automatic Timing and results.

How Accurate is a FAT System?

FinishLynx timing systems can capture anywhere from 600 frames per second (fps) up to an astounding 20,000 fps. That’s why FinishLynx is trusted by world-class events like NASCAR and the Tour de France. In fact, FinishLynx cameras have an internal digital clock that is accurate to plus-or-minus one part per million.
What Are Line-Scan Images?

One way to think of line-scan photography is to imagine sitting in a room with the door open a tiny crack and watching someone from outside run past the door. As they run by, you only ever see a thin "slice" of them through the door. But, after a short period of time, they will travel completely past the doorway. Now imagine that the crack in your door is aligned perfectly with the finish line.

A line-scan photo-finish image is actually composed of a series of incredibly thin individual pictures of a finish line (and whatever is crossing it). Then, each vertical finish line image is combined one after the other to create a full image. See the diagram for an example.

The FinishLynx software combines these thin, time-stamped images side-by-side so it becomes very easy for the timer to see exactly when each competitor crosses the finish line. Simply click the mouse on a competitor's torso and the software displays their finish time automatically down to 1/1000th of a second.

What Other Features Are Available?

1. **Quick and Easy Hardware Setup**
   - Unlike any other FAT system, the FinishLynx software can use a Remote Positioner to adjust the camera placement and auto-align the camera precisely on the finish line.
   - The RadioLynx Wireless Start technology (included with the higher-end packages) means that the days of having to string cable to all the start locations can be gone forever.

2. **Data Sharing**
   - All Lynx systems (Bronze and above) have the ability to link the timing system to scoreboards and to meet management software for instant and error-free sharing of data (results, names, affiliations, etc.).

3. **High-Quality Photo Printing**
   - The photo-finish image printouts produced by a FinishLynx FAT system meet all the requirements for record authorization at all levels of the sport.

Why Choose a Lynx Package?

**Improved Meet Results**

1. **Fairness** – Coaches and athletes quickly learn that results are accurate and reviewable, putting an end to unnecessary disputes.
2. **Timeliness** – Meets will start and end on time because there won't be disputes and confusion over lanes and finish times at the end of every race.
3. **Accuracy** – Athletes won't be denied recognition for their achievements.

**Improved Financial Results**

1. **Use limited human resources better** – No need to find hand timers for every lane.
2. **Save on costs** – No more need to pay a costly timing service to provide FAT at local meets.
3. **Raise money for the program** – High-quality image printouts can be sold as souvenirs.
Lynx systems meet all the timing and results requirements described in the NFHS rulebook and our line-scan technology has long been used at NFHS and USATF championship events. Lynx systems provide digital FAT and photo-finish results accurate to at least 1/1000th of a second and fully integrate start, finish, and meet management systems into a single network.

Lynx is trusted by elite-level meet administrators, dozens of professional timing companies, and 2,400+ high schools across the United States – making it the benchmark for fully automatic timing in High School Track & Field.
What is EasyAlign Mode for FinishLynx?

The EtherLynx Vision is a next-generation FinishLynx camera that offers several advanced features, including EasyAlign full-frame video alignment mode. EasyAlign displays a live, full-frame video preview of the camera’s field-of-view on your computer screen. The 2-D preview also overlays two thin lines (vertical and horizontal) so the camera can be adjusted visually to ensure precise alignment on the finish line. Once aligned, just switch the camera back to 1-D capture mode for accurate, photo-finish results images.

Traditionally, EtherLynx line-scan cameras had to be aligned using 1-D mode meaning operators had to rely on the colors and lane lines in the image to determine proper angles and alignment. This new 2-D video mode makes it extremely simple to align the camera quickly and accurately on the finish line to ensure accurate results.

Proper Camera Alignment in EasyAlign Full-Frame Video Mode

EasyAlign gives operators a clear, full-frame, live video view of the finish line area allowing the operator to align the camera quickly and accurately. Position the camera, align it precisely on the finish line, and then switch to full line-scan photo-finish mode.
The FinishLynx Bronze Package is an all-inclusive photo-finish system from Lynx – the leader in Fully Automatic Timing (FAT). With this entry-level timing system, all that's needed is a laptop to deliver NFHS-compliant results at your Track & Field meets.

When a program makes the switch to Fully Automatic Timing, everyone involved will benefit: Athletes, Coaches, and Meet Administrators. With FinishLynx, volunteers can be used much more efficiently resulting in less stress on both officials and volunteers. Hand-timers and stopwatches become completely unnecessary. Also, thanks to our LynxPad software, athlete entries, seed marks, and results printing can be set up with ease.

Administrators and coaches will love the fact that race images are reviewable and accurate to 1/1000th of a second. Disputes over close finishes and athlete ID’s will become a thing of the past.

Why Choose the FinishLynx Bronze Package?

This NFHS-approved photo-finish timing system is a perfect package for first-time FinishLynx users. At the heart of the system is the EtherLynx Vision digital photo-finish camera, a powerful timing camera that captures results images at 1,000 frames per second (fps) and offers EasyAlign for quick alignment on the finish line to ensure accurate results.

The combination of the EtherLynx Vision camera with FinishLynx Results Software generates a powerful track timing system for athletics programs of any size. Thousands of US high schools already trust their timing to FinishLynx.
Making the Switch to Photo-Finish Timing

Part of what makes FinishLynx systems so popular is the suite of features available in the FinishLynx timing software. The Bronze Package includes the FinishLynx Results Software, which allows users to customize their system by supporting key features, plug-ins, and the ability to integrate with 3rd-party devices.

The FinishLynx software can take advantage of every available FinishLynx plug-in, including Automatic Capture Mode (ACM), Network COM Port (NCP), and RadioLynx Wireless Start. It also includes native support for multiple EtherLynx cameras, IdentiLynx 2-D video integration and interfaces with compatible scoreboard displays and wind gauges. These are some of the major reasons why many new FinishLynx users insist on the Bronze Package.

The modular design of Lynx Packages means that the Bronze Package contains everything needed for powerful FAT results. And, like all FinishLynx Packages, it integrates seamlessly with LynxPad and other meet management software. If your race or timing needs evolve over time, upgrading your system is as simple as adding new components to the existing package – nothing bought will ever go to waste.

Bronze Package Hardware
- EtherLynx Vision photo-finish camera
  - 1,000 fps – accurate to 1/1000th of a second
  - Full-color results images
  - EasyAlign full-frame camera alignment
- Wired start system
- Manual capture button
- Custom Lynx carrying case
- Tripod & mounting kit
- All required cables

Included Software
- **FinishLynx** – Timing & results software with lifetime updates
- **LynxPad** – Meet management software

Service & Support
- 1-Year Renewable Warranty
- Full access to in-house Tech Support

FinishLynx: The World’s Most Powerful Photo-Finish Software

The Bronze Package includes the full FinishLynx Software
The Silver Package is the most popular FinishLynx system configuration because it offers increased image quality and dramatically improved ease-of-use for camera operators. Capturing photo-finish images at up to 2,000 frames per second means higher resolution images with greater time precision. That makes it easier for timers to quickly and accurately evaluate results then move on to the next heat.

The Remote Lens and Remote Positioner upgrades allow timers to precisely adjust the position of the camera and lens settings directly from within the FinishLynx software. Need to fine-tune the camera alignment or lens aperture and focus during the meet? Just make a few mouse clicks in the software to remotely adjust the lens/camera to get clear pictures and accurate results.

Combine these remote features with the Automatic Capture Mode plug-in and meets of any size are a breeze to time. Just arm the event, turn on capture, and record any finish line activity automatically.

Components
- EtherLynx Vision™ Camera: 2,000 frames/second, timer-enabled, fully-upgradeable
  - High-Resolution Upgrade for 2,000 fps capture
  - C-Mount f1.2, 8-48mm motorized zoom lens
  - EasyAlign™ Full-Frame Video Alignment Mode
- Remote Lens: control Focus, Zoom, Iris
- Remote Positioner: control Pan, Tilt, Swivel
- Automatic Capture Mode (ACM) Plug-In
- Wired Start System & Capture Button
- Tripod and mounting hardware for precision adjustment
- All-inclusive Power, Ethernet, & Start Cable Set
- Full access to Lynx Technical Support
- 1-Year renewable warranty
- FinishLynx32 – Photo-Finish Software
- LynxPad – Event Management Software

Silver Package: $11,295
Remote Lens & Remote Positioner Included

Better Images & Camera Control

Simplify Your Race Timing with Remote Control & Automatic Capture

Because finish line cameras are often mounted well above eye-level, the Remote Lens and Remote Positioner upgrades ensure the camera is easily accessible and adjustable. These motorized accessories allow operators to make mid-meet adjustments quickly and easily to account for changes in glare, shadows, or camera positioning. A simple click on the remote icons will adjust the lens or field-of-view without having to climb a ladder to reach the camera.

With high-resolution images, athlete identification becomes all the more certain. Even the best hip numbers can fall off or be obscured during races. In such situations, the next best thing is the ability to make a quick and accurate assessment of an athlete’s identity based on their uniform or other identifiable features — all of which are easily visible at up to 2,000 frames/second.
Certified FAT Results with the Silver Package

**Automatic Capture Mode Plug-In**

The Automatic Capture Mode (ACM) plug-in for FinishLynx enables the software to detect and record all finish line activity **automatically**. Operators no longer need to use the Capture Button to record photo-finish images. The ACM plug-in will also allow the camera to be used as a "virtual photo-eye" that can control displays at the venue – stopping the running time clock for splits and unofficial finish times.

Lynx packages provide all the FAT accessories needed to produce clear, accurate results at meets of any size. With FAT results that are accurate to within 1/1000th of a second, the Silver Package satisfies the NFHS rule:

"...all ties for place finishes and/or determining qualifiers for a subsequent round shall be broken by using timing to one one-thousandths of a second if the system allows."(NFHS.org)

**Why Upgrade to Silver?**

Includes everything from the **Bronze Package**

**PLUS**

- Remote Lens
- Remote Positioner
- High-Resolution Upgrade
- Auto-Capture Mode (ACM) Plug-In

"I love, love, love, LOVE the Auto Capture of FinishLynx. Makes my timing a breeze."

– Peter U.

"Once we got [ACM] we have never missed a finish. It makes completing the results faster also."

– Kevin J.

Silver Package System Diagram

Silver - Track

* Computers and starting pistol not included in package
Increase Meet Quality & Mobility

The **Gold Package** contains all the components from the Silver Package as well as several key features that allow operators to build a more advanced results network.

The **IdentiLynx Full-Frame Video Camera** is an Ethernet-based digital video camera that combines with an EtherLynx line-scan camera to enhance the 1-D photo-finish images with integrated full-frame video.

The **9-Digit LED Display** connects to the FinishLynx system and can display running times and results that are clearly visible from over 200 feet away. The ACM plug-in will also send unofficial finish times immediately to the display for all to see.

**RadioLynx Wireless Start** is a customer-favorite because it replaces the 500’ start cable and allows Starters to move more freely about the venue.

### Components

- **EtherLynx Vision™ Camera** – 2,000 frames/second, timer-enabled, fully upgradeable
  - C-Mount f1.2, 8-48mm motorized zoom lens
- **IdentiLynx Video Camera** (with lens, tripod, & cables)
- **RadioLynx Wireless Start** (Receiver & Transmitter)
- **9-Digit LED Display** (with bag & charger)
- Wired Start System & Capture Button
- Tripod and mounting hardware for precision adjustment
- All-inclusive power, Ethernet, & start cable set
- **8-Port 10/100 Power-over-Ethernet Switch**
- Lynx Tech Support & 1-Year renewable warranty
- Remote Lens & Remote Camera Positioner
- **FinishLynx32** – Photo-Finish Software
  - Auto-Capture & Virtual Photo-Eye Plug-In
- **LynxPad** – Event Management Software

**Gold Package: $16,995**

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Features and Benefits of the Gold Package

The **Gold Package** includes all the key components from the Silver Package (Auto-Capture, high-resolution images, remote features), plus **IdentiLynx Full-Frame Video**, a **9-Digit LED Display**, and **RadioLynx Wireless Start**.

If your program hosts Track or Cross Country meets throughout the year, the **Gold Package** is right for you. It offers everything needed to host events at the highest levels of state and national competition. FinishLynx Fully Automatic Timing technology is trusted by 2,400 high schools across the country.
Gold Package

Gold Package

FAT Results with the Lynx Gold Package

The Gold Package includes IdentiLynx, an Ethernet-based digital video camera that combines with the line-scan camera to enhance photo-finish images with 2-D video. Because IdentiLynx is time-synchronized with the FinishLynx capture, click anywhere on the image to see head-on video from precisely the same moment, allowing for easy athlete identification using bib numbers or uniforms.

The more hardware that gets included, the more powerful and sophisticated the results network becomes. One of the key benefits of FinishLynx technology is that individual components can work together to produce a more complete results network, improving meet quality for administrators and athletes alike.

With the IdentiLynx video camera, RadioLynx Wireless Start, and 9-Digit LED Display, the Gold Package provides one of the most powerful timing solutions available today. It is more than just a timing system – it’s a real-time FAT results network tailored to your venue.

Why Upgrade to Gold?

Includes everything from the Silver Package

PLUS

- IdentiLynx Full-Frame Video Camera
- RadioLynx Wireless Start System
- 9-Digit LED Display

The RadioLynx Wireless Start system wirelessly transmits the start signal so the officials can move freely around the venue without a 500’ start cable trailing them.

The 9-Digit LED Display shows 6” letters and numerals that are visible from over 200 feet away.

The IdentiLynx Video Camera offers 2-D video that’s time-synchronized with your FinishLynx results so finishes can be viewed from a different angle. IdentiLynx makes it easy to identify athlete singlets and bib numbers during evaluation.

Gold Package System Diagram

Gold - Track

* Computers and starting pistol not included in package
The MVP Package is a three-camera results system that not only benefits athletes, but the entire program – from parents to officials. Although designed specifically for high school Track & Field, this package also meets the standards approved by the International Association of Athletics Federations (IAAF). It provides accurate, verifiable results for all track events: Indoor, Outdoor, and Cross Country. By combining two EtherLynx Vision cameras with an IdentiLynx video camera – and integrating them with the other MVP components – we’ve created the most powerful high school timing solution available today.
The **MVP Package** is equipped with all the latest technology and its components are seamlessly integrated to create a real-time network for managing meets. Operating the results network is simple and yet this solution represents the very finest technology available.

The **MVP Package** includes two (2) full-color EtherLynx Vision cameras, an IdentiLynx 2-D video camera, an IAAF-compliant wind gauge, plus everything else needed to produce results for elite-level events. Because all governing bodies, including the NFHS, state that a wind gauge must be used to ratify record-breaking times, it has become a necessity in all major Track & Field competitions. In fact, the same device was used at past US Track & Field Olympic Trials to verify the results of America’s finest athletes.

When you invest in FinishLynx technology, you’re joining a community of over 2,400 other high schools across the country that have made the same commitment to their track programs. Lynx technology is used at every level of competition and is manufactured in-house by our skilled technicians. No matter how the system is used, it is reassuring to know that a Lynx support technician is only a click or phone call away.

The **MVP Package** delivers three time-synchronized viewpoints from the finish line: two line-scan cameras on opposing sides and full-frame IdentiLynx video capturing from the front. The 2,000 fps Vision camera serves as the primary photo-finish device, while the second 1,000 fps Vision captures reverse-angle images from the opposite perspective.

The image on the right is a screenshot of the FinishLynx software. It shows photo-finish results produced with two reverse-angle cameras, which is especially valuable in distance and cross country races when hip numbers need to be evaluated instead of lanes.
Integrate your Network with SeriaLynx

The SeriaLynx unit controls the flow of data to and from serial devices such as scoreboards and wind gauges. Because FinishLynx allows the network configuration to be adjusted, the serial components can be tailored for different formats and events.

9-Digit LED Display

The 9-Digit LED Display connects to the FinishLynx system and can display running times and results that are clearly visible from over 200 feet away.

Ultrasonic Wind Gauge

The Ultrasonic Wind Gauge is a key addition to the MVP Package because it satisfies the IAAF and NFHS requirements for ratifying record-breaking times. For a new Track & Field record to be considered valid, it must be accompanied by a reading from a certified device that accurately measures head/tail winds during the race.
MVP Package

Reverse-Angle EtherLynx Vision Cameras
The MVP Package includes two (2) EtherLynx Vision cameras so timers can capture reverse-angle photo-finish results. The primary camera captures 2,000 frames per second while the secondary Vision camera captures 1,000 frames per second.

Dual Remote Positioning Mounts
Both of the EtherLynx Vision cameras come equipped with Remote Positioners, making it easy to adjust the camera’s tilt, pan, and swivel from within the FinishLynx software. Plus, with the auto-align feature also included in this package, aligning the camera with the finish line has never been easier.

IdentiLynx Full-Frame Video Camera
The IdentiLynx Full-Frame Video Camera is an Ethernet-based digital 2-D video camera that combines with the EtherLynx line-scan camera to enhance your 1-D photo-finish images with time-synchronized video.
The **IdentiLynx+** is an Ethernet-based, full-frame digital video camera that integrates with EtherLynx photo-finish cameras to produce time-stamped finish line videos. **IdentiLynx** video cameras provide high-resolution, front-facing video that is time-synchronized inside FinishLynx to quickly and accurately identify competitors at the finish line. It's the perfect addition for anyone looking to host Cross Country meets or simplify their timing of distance events. It's easy to identify athletes with the full-color, head-on video – no matter how close the finish.

The IdentiLynx+ camera captures up to **1280 x 720** pixels at **30 fps** and offers several improvements over past IdentiLynx models. IdentiLynx video is time-synchronized with the FinishLynx capture, meaning the operator can click anywhere on the photo-finish image and watch the video jump to precisely the same moment in time. IdentiLynx can also be used with the ACM (Automatic Capture) plug-in to make even the largest meets a breeze to capture and evaluate. Set up the IdentiLynx+ at your finish line and start capturing high-definition, time-stamped videos at all your races.

**IdentiLynx+ Features**

- Separate capture modes allow you to optimize the capture resolution for your event.
- Use the motorized lens to adjust the camera’s remote control focus and zoom from within the FinishLynx Software.
- The sturdy, weatherproof housing protects the lens and connections from damage.
- The camera has a max resolution of 1280 x 720 at 30 frames per second (max frame rate).
IdentiLynx+ Hardware Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shutter Speed</td>
<td>Automatic</td>
</tr>
<tr>
<td>JPEG image quality</td>
<td>Up to 5 megapixels</td>
</tr>
<tr>
<td>Gain</td>
<td>Automatic</td>
</tr>
<tr>
<td>Lens</td>
<td>2.8-8.5mm, f/1.2, Motorized Zoom Lens</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Power-Over-Ethernet (PoE 802.3af); 12VDC; 24 VAC</td>
</tr>
<tr>
<td>Dimensions</td>
<td>5.07” (L) x 2.72” (W) x 2.76”(H)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.4 lb (0.165 kg)</td>
</tr>
<tr>
<td>Construction</td>
<td>Plastic and aluminum</td>
</tr>
</tbody>
</table>

Integration with FinishLynx Timing Software

- FinishLynx software finds and starts up the camera(s) just like a photo-finish camera.
- IdentiLynx image can be "placed" in any pane, just like a photo-finish image.
- Time tracking can be used to synchronize the head-on view with the FinishLynx image.
- IdentiLynx cameras can be used with the ACM plug-in (Automatic Capture Mode).
- FinishLynx software allows the standard features available to EtherLynx cameras to be used with IdentiLynx cameras: digital zoom, automatic scrolling, gamma, brightness and contrast adjustment.
- IdentiLynx images can be advanced and rewound frame-by-frame ensuring an operator has the best chance of finding a frame with a clear bib number.
- IdentiLynx video images are stored on the computer as individual images and can be printed directly from the FinishLynx software, either with or without included results.
- IdentiLynx video can be manually cropped, viewed in forward or reverse, viewed at different playback speeds, exported to AVI format, and the user can jump to any point within the video.
Scholastic Package

A Full-Color FinishLynx Timing System for Under $5,000

FinishLynx track and field timing systems are trusted by more than 2,400 high schools across the country. All FinishLynx packages contain everything you need to produce NFHS-approved Fully Automatic Timing (FAT) and results. The Scholastic Package produces photo-finish results at 600 frames per second – that’s 5 times greater precision than alternative timing systems (120 fps).

“3-9-6: When fully automatic timing (FAT) is used, timing shall be recorded in one one-hundredths of a second and all ties for place finishes and/or determining qualifiers for a subsequent round shall be broken by using timing to one one-thousandths of a second if the system allows” (2009 Track & Field Rule Changes, NFHS.org).

The world’s most popular photo-finish technology is available in a packaged solution for only $4,995. The Scholastic Package includes full-color images, EasyAlign camera alignment mode, all necessary cables, camera mounting hardware, LynxPad Meet Management Software, FinishLynx Lite Results Software, and it produces more accurate results than other timing systems. The Scholastic solution offers all the benefits of FinishLynx FAT at an unprecedented cost. With a fully automatic timing system you can stop timing meets by hand, make better use of your volunteers, and most importantly, you can put more focus on the athletes instead of trying to get results.

Scholastic Package Contents

- **Camera:** EtherLynx Vision (Scholastic), 600 fps, 640 pixel image height, full-color, timer-enabled
  - **EasyAlign** Full-Frame Video Alignment Mode
  - Fixed 6mm CS Mount Lens
- **FinishLynx Lite** Results Software
- Start Sensor, Capture Button, and 500’ Start Cable
- 6’ Mounting Tripod and Geared Head
- Quick Start Guide for easy system setup
- All-Inclusive Camera Power & Connection Cable Set
- Custom Storage/Carrying Case
- Access to Lynx Technical Support
- 1-Year Renewable Warranty
- LynxPad Meet Management Software
- Ability to add/upgrade components at a later date

www.finishlynx.com

www.facebook.com/finishlynx
Benefits of the Scholastic Package

Enjoy Premium Features from the Vision Camera

The Scholastic Package includes FinishLynx Lite – a simplified version of the FinishLynx software – which still takes advantage of powerful features available with the EtherLynx Vision camera. The Scholastic Package provides full-color results images and EasyAlign Full-Frame Video Alignment. That means it’s easier than ever to set up and capture fully automatic times at your meets.

Make an Investment in FinishLynx Technology

The Scholastic Package makes it even easier for schools of all sizes to adopt Fully Automatic Timing. FinishLynx packages are truly a long term investment that will pay dividends for years to come. Say goodbye to hiring hand-timers, soliciting volunteers, and producing non-sanctioned results. More importantly, if your program grows and is looking to host bigger meets, the system can be upgraded at any time to work with RadioLynx Wireless Start, remote lens and positioning capabilities, or converted to one of our more advanced packages.

Accurate and Easy to Use

Software

The Scholastic Package uses a simplified version of our renowned FinishLynx photo-finish results software. This software captures FAT results right on your laptop and is compatible with any Windows-based computer. The easy-to-use software is perfect for schools making the switch to Fully Automatic Timing from manual or video timing systems.

The Scholastic Package also includes LynxPad Meet Management Software that organizes athlete names, lane assignments, affiliations, and seed marks in a simple, file-based format. Full integration with FinishLynx means it’s easy to generate complete FAT results.

Hardware

Position your camera, connect two cables to your camera and you’re ready to go!

1. Connect to Windows Computer via PoE injector
2. Connect to Wired Start System
**FinishLynx Photo-Finish Results Interface**

The FinishLynx software was first created over 25 years ago by Lynx engineers as the premier interface for capturing, logging, and transmitting real-time FAT results. Over the years, FinishLynx has been continually improving thanks to customer feedback and in-house software development. Today, our FinishLynx software is more powerful and versatile than ever before.

FinishLynx integrates photo-finish images, FAT results, and network hardware into a single, easy-to-use interface. From multiple FinishLynx cameras to countless third-party accessories, FinishLynx allows operators to control their entire results network from a laptop computer.

**Real-Time Event Panel**

The top left panel in the FinishLynx software displays a variety of real-time information during an event. These details provided will vary in complexity depending on the hardware attached to the system.

By default, the interface displays the event name (imported from meet management program data) as well as the start time and camera details. Should you ever decide to expand your system, the software can also display real-time data from wind gauges, multiple cameras, and FinishLynx software plug-ins.

**Full-Color Photo-Finish Images**

Every camera in the EtherLynx Vision range produces full-color images in millions of colors. When operators combine the accuracy of 1,000 or 2,000 frames/second photo-finish images in full-color, operators have the very finest photo-finish, timing and results production technology available.

Produce results even easier with full-color images. Here’s how:

1. Easier athlete identification by uniform color
2. Crisp contrast/resolution for hip numbers
3. Rich color images for successful printing, laminating, and selling of images at meets
Meet Management Integration

LynxPad is a meet management program that organizes athlete names, ID’s, schools, and seed marks in a simple, file-based format. Because LynxPad is fully integrated with FinishLynx, operators can generate complete, FAT photo-finish results with the simple click of a button.

FinishLynx Results Panel

The FinishLynx results panel organizes and displays all real-time athlete data during events. Easily import athlete info and lane numbers from a meet management program before a meet. When evaluating an image, results are included alongside their ID and lane numbers – integrating the data and photo-finish images for the most impressive FAT results available.

Meet Management Integration

LynxPad is a meet management program that organizes athlete names, ID’s, schools, and seed marks in a simple, file-based format. Because LynxPad is fully integrated with FinishLynx, operators can generate complete, FAT photo-finish results with the simple click of a button.

NFHS-Approved FAT Results

FinishLynx integrates crisp photo-finish images with timing results that are accurate to within 1/1000th of a second. No matter how close the finish, operators will enjoy the advantage of easily visible (and printable) FAT results from an NFHS-approved system.

3-9-6: When [F.A.T.] is used, timing shall be recorded in one one-hundredths of a second and all ties for place finishes and/or determining qualifiers for a subsequent round shall be broken by using timing to one one-thousandths of a second if the system allows. (NFHS.org)
Cashing in on your Track Meets with FinishLynx

Investing in a FinishLynx system doesn’t just provide your track program with Fully Automatic Timing. It also gives your school a proven method for generating fundraising dollars by selling FinishLynx images at local meets. All FinishLynx cameras produce beautiful, high-resolution results images that show the exact moment an athlete crosses the finish line.

It doesn’t matter if a runner is earning a PR, or just finishing their first race. Friends and family love seeing, sharing, and buying finish line photos. The FinishLynx software allows timers to easily crop and export photo-finish and video captures for printing, saving, or emailing. Setup a sales booth and start generating immediate cash for your track or athletic program. Some timers are able to earn thousands of dollars every season by selling Lynx images at local races – especially at larger district and state meets. Let your FinishLynx investment work for you.

Is it Easy to Print Lynx Images?

Absolutely – it’s 3 simple steps.

Once a race has been captured and saved, exporting photo-finish or IdentiLynx images is a quick, 3-step process:

1. Hold down the right mouse button and draw a box around the image area you want to export and print. You can include one athlete, or every athlete in the heat.

2. Release the button and select “Print” to bring up the print options box. Choose to print the picture alone, or with athlete names and results. Include all the results or choose a custom range that better suits the finisher. For instance, you can display only 5th through 7th places for a 5th place finisher.

3. Print the image directly or save it to your computer/network/cloud for sharing. See below for a sample printout. You can also overlay custom logos and text.
“Nothing sells like a great picture. When we sell pictures we go through all of the steps that we would normally do to get a great picture (making sure that the camera is square on the line, having a crisp focus, etc.). But we also do a few extra things like taping the finish line with white gaffer tape and putting up a six inch wide by six-foot tall white board outside the track.

This gives a nice light background for the pictures and also conserves ink. We set the scan rate a little higher to make the athletes look bigger in the image, and we periodically adjust the gain to get the right brightness and contrast.”

“We actively promote the pictures at a meet. We provide a script for the meet announcer to read. We also take sample pictures and flyers and post them around the meet venue. Bathroom doors and concession stands are great places to do this.

The meet organizers are more than happy to help us promote our product since the pictures have the meet name at the top and we can also put the name of the meet sponsor on the pictures.”

“This year we purchased a wireless access point and wireless cards for our laptops. This allows us to put our picture-selling booth anywhere we want without worrying about stringing Ethernet cable. We can setup in about 15 minutes and put our booth in a high traffic area. We sold more pictures than ever this year and we typically earn more money selling pictures than we receive for timing the meet.”
Meet Fundraising – Run The Numbers

Support Your Program One Photo at a Time

Case Study – Image Sales at the 2015 State Championship Meet

<table>
<thead>
<tr>
<th>2015 State Championship Meet</th>
<th>Image Sales at the 2015 State Championship Meet</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Location</strong></td>
<td>South Area HS</td>
</tr>
<tr>
<td><strong>Total Athletes</strong></td>
<td>2,500</td>
</tr>
<tr>
<td><strong>Prints Sold</strong></td>
<td>437</td>
</tr>
<tr>
<td><strong>Total Sales</strong></td>
<td>$2,500</td>
</tr>
</tbody>
</table>

The table below shows how one program earned thousands of dollars in fundraising revenue from its annual state-wide track meet. It includes the cost of supplies and real sales estimates from a 2015 state meet. They also sold images at smaller meets during the season. But the state meet represented 75% of their income during the season.

**Initial Investments:** $389 (LaserJet Printer: $250 + Foam Board Laminator: $139)

**Income**

<table>
<thead>
<tr>
<th>Image Printouts</th>
<th>374 Prints sold on paper with plastic protector: $5/each</th>
<th>$1,870</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>63 Prints sold on laminated foam boards: $10/each</td>
<td>$630</td>
</tr>
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</table>

**Expenses**

<table>
<thead>
<tr>
<th>Printing Supplies</th>
<th>Printing Paper: 2 reams</th>
<th>($15)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Clear plastic sheet protectors: 500</td>
<td>($30)</td>
</tr>
<tr>
<td></td>
<td>Foam Boards: ~$2/each</td>
<td>($150)</td>
</tr>
<tr>
<td></td>
<td>4-Color Toner Cartridges (last all season)</td>
<td>($200)</td>
</tr>
</tbody>
</table>

**Net Income from Image Sales at 1 State Track Meet**

$2,105

**Tips & Additional Information**

- Set up a separate computer on the network that is dedicated to printing and selling images.
- Recruit students or parent volunteers to learn and refine the image sales process.
- Some timers may sell more IdentiLynx images than traditional photo-finish captures. Try selling both.
- Target sales to family members and friends. They’re usually excited to support their athlete and the track program.
- Try selling images on different types of media. Paper, glossy photos, t-shirts, foam boards, and even direct email can work.
Contact Lynx System Developers

<table>
<thead>
<tr>
<th>Key Contacts</th>
<th>Connect With Us Online</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U.S. Domestic Sales</strong></td>
<td><a href="mailto:domsales@finishlynx.com">domsales@finishlynx.com</a></td>
</tr>
<tr>
<td>Tech Support</td>
<td><a href="mailto:support@finishlynx.com">support@finishlynx.com</a></td>
</tr>
<tr>
<td>Phone</td>
<td><strong>USA (978) 556-9780</strong></td>
</tr>
<tr>
<td>Address</td>
<td>179 Ward Hill Ave, Haverhill, MA 01835</td>
</tr>
<tr>
<td><strong>Website</strong></td>
<td><a href="http://www.finishlynx.com">www.finishlynx.com</a></td>
</tr>
<tr>
<td><strong>Facebook</strong></td>
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<td><a href="http://www.youtube.com/c/finishlynx">www.youtube.com/c/finishlynx</a></td>
</tr>
</tbody>
</table>
Major Reference Events

Major Track & Field Events Using FinishLynx Technology

USATF Outdoor Track & Field Championships (Des Moines, IA)

New Balance Outdoor Nationals (Greensboro, NC)
http://www.nationalscholastic.org/nbon

New Balance Indoor Nationals (New York, NY)
http://www.nationalscholastic.org/nbin/

Penn Relays (Philadelphia, PA)
http://pennrelaysonline.com

Drake Relays (Des Moines, IA)

Millrose Games (New York, NY)
http://www.nyrrmillrosegames.org/

USATF Indoor National Championships (Albuquerque, NM)

Nike Cross Nationals (Portland, OR)
http://www.runnerspace.com/nxn

Foot Locker Cross Country Championships (San Diego, CA)
http://www.footlockercrosscountry.com/

Links verified 09/2018