



FINISH LYNX

A NEWSLETTER FOR OPERATORS OF TECHNOLOGY FROM LYNX SYSTEM DEVELOPERS, INC.

Number 17, July 1999

NOTES FROM THE EDITOR

Nora Courtney - Customer Service Co-ordinator

As you may have seen, we have recently launched our new website and we are working hard to implement the on-line Lynx clothing store.

From t-shirts to turtlenecks, hats to jackets, we will have you and your crew outfitted for any season. Even your junior timers and racers can be decked out in Lynx gear, as we will be introducing children's sizes.

Like the FinishLynx system, your team in Lynx logo embroidered gear makes a great impression. Be on the lookout for this latest offering from Lynx.

Also, expect to be hearing from me shortly with the details of our new extended warranty service. This restructured program will provide all the benefits of the initial warranty period at a lower cost than the old program.

Nora

TOUR DE FRANCE 99



Cycling's hallmark event features Lynx technology again.

With close finishes dominating the early stages of this year's Tour de France, the team from Matsport were kept busy. The demand for up-to-the-minute results made possible by the FinishLynx system meant that this year the en-route climbs were updated live to the internet.

The live updates required internet hook-ups at key locations along the route of the Tour. In some of the more remote areas this necessitated a rummage in the undergrowth for a specially prepared phone cable by a member of the results team.

Once the hook-up was made, the data was then sent electronically to the results team at the finishline. The official Tour website <<http://www.letour.fr>> featured many FinishLynx images in its coverage of the event.

As we go to press, Lance Armstrong has just cemented his win with a triumphal entry into Paris. We at Lynx are delighted to see Lance back at the top of his game after his bout with cancer.

USATF NATIONAL CHAMPIONSHIPS - FINISHLYNX ACROSS THE AIRWAVES

This summer, Nexus - the FinishLynx kitty, appeared week after week on millions of TV screens across the country.



photo credit Brian McGuire

Track and Field in the US made a return to the small screen in a big way this summer. Week after week, major meets were televised on network channels during prime weekend viewing hours - and FinishLynx provided results for all of the televised meets.

The meets spanned the country from the adidas Oregon Track Classic on the west coast to the TFA ProChampionships on Long Island, New York.

The televised meets also included the USATF National Championships which was the selection meet for the upcoming World Championships (top three finishers were eligible for consideration). This made prompt results generation for **all** the athletes, which has become Lynx's

hallmark, of even greater interest than usual.

Results were sent directly to the venue scoreboards from FinishLynx, and, thanks to Lynx's ResultTV software, the Director of the TV production had accurate results at his fingertips the instant they were available - without the need for spotters with radios. Athletes, coaches and spectators all had access to the official results at unparalleled speed.

The National Championships marked the first time that a major meet has used SIX different Lynx products: FINISHLYNX, FIELDLYNX, REACTIME, LYNX DISPLAYS, RESULTV and LYNXTV. The product integration was seamless and contributed greatly to the smooth running of the meet.

WINNING COMBINATIONS

A new alliance is formed in the US Pari-Mutuel industry.

Earlier this year Lynx collaborated on new

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product development with American Teletimer Corp. Lynx welcomes the opportunity to work on this joint venture with such a respected member of the parimutuel industry.

American Teletimer has been intimately involved with the provision of timing and photofinish services to racetracks across the US since 1938 and is currently one of the major companies in this field in the US.

With the growing demand for Lynx technology outside the Track and Field market, collaborative ventures of this kind are likely to become more and more frequent. If any company - involved in any sport - feels that an alliance of this type can fill an unmet demand, we are always happy to listen to ideas.

LYNX KITTENS

Discovery of lynx kittens in Maine woods proves Maine has its own lynx population.



photo courtesy Jennifer Vashon

The news that lynx kittens had been discovered in a den in Maine prompted Lynx President, Doug DeAngelis - a native of Maine himself - to offer support to the research project responsible for the discovery.

The kittens - shown in the picture - were thought to have been born around May 25th along the banks of the Allagash Wilderness Waterway. Watch our website for further details.

FEEDBACK - USROWING NATIONAL CHAMPIONSHIPS

Syracuse, New York hosts the 1999 Championship at Onondaga Lake. Jennifer Gruenberg from the host club writes...

"...The involvement of Lynx Systems Developers in the USRowing Club National Championship Regatta held in Syracuse, NY on July 22-25th was eye opening for everyone.

"All of those involved, from the local organizing committee to the USRowing officials themselves, were impressed with the technology of the timing system. For years finish placement and timing for rowing regattas has been centered around the hand-held stopwatch and human operators.

"No longer do the results of each race depend on an official on land at the finish peering through binoculars reading bow numbers on boats as they cross the "perceived" finish line and clicking offsets on the stopwatch.

"The efficiency and time saving features inherent in the FinishLynx System are remarkable. The information received and stored from the camera offers indisputable back up for each race and at times was referenced by our on shore officials who were uncertain of the times they computed in some close races. The camera never lies.

"We hope to be able to use the FinishLynx System next year and hold out hope that USRowing, the governing body for the sport of rowing, will be able to acquire the system for use in all their regattas."

TRACK AND FIELD LOSES A DEDICATED SUPPORTER.

Quicksilver Track club reports the tragic death of its founding member, Earnest Dixon.

With the death of Earnest Dixon in May, Track and Field lost one of its much loved supporters. Mr. Dixon died at the age of 57 while in Texas for a track meet.

The Quicksilver Track Club of Atlanta was the brainchild and passion of Mr. Dixon and since its inception in 1981 it has produced more than its fair share of National and Regional Champions. However, in line with Earnest's original vision, the Q.T.C. program is about far more than just producing winners - although they do that very well - it also aims to instill in its members a "love of the sport of Track and Field," "to strengthen young people's self-image through competition," and to help them "TO HAVE FUN !!!"

We at Lynx are proud to have known Earnest and we look forward to continuing our work with the Q.T.C.



Quicksilver Members at 1998 Junior Olympics

MORE NEW PRODUCTS AVAILABLE

New through the lens viewer adds auto iris controls, and new camera increases resolution.

For the first time our f-mount (Nikon) through-the-lens viewer is available with a

remote-control iris function. This new product combines the ease of alignment of the viewer with iris adjustment direct from the software - perfect for those hard to access camera locations.

The new EtherLynx 2000 camera will allow a density of 1728 pixels in Mode 1 at a scan rate of 2000fps. This increased resolution almost doubles the digital zoom effect and enables a wider lens to be used - with all the savings in lens cost and maximum aperture availability that this represents. Call Kevin McGill or Paul Lambert for more details on these products.

Job Opportunity at Lynx

MOBILE EVENT EXPERT



Responsibilities: This individual will be responsible for the setup, operation, and maintenance of Lynx data collection, organization and distribution technology at various events in the field, as well as training of others to perform these tasks. Involves a large amount of international travel. Also involves in-house organization and testing of all field equipment to assure readiness of the equipment when it is required in the field. To include backup support of our in-house computer network and servers. A more technical (EE or CS) person could be involved in software development when not on the road, but it should be understood that this is NOT primarily a development position.

Qualifications: Must be an "event person" as well as a team player; this means a person who is generally cool headed and capable of performing under stress without negatively affecting those around them. Must have a thorough understanding of all forms of 32-bit Windows operating systems. Prior experience with FinishLynx an obvious plus. Rabid interest in sports or any foreign language proficiencies are a bonus and should be noted by the applicant.

Schedule: Position will involve significant weekend travel. Depending on applicant's requirements and work load, this may mean taking certain weekdays off or being paid a flat daily rate for weekend event days.

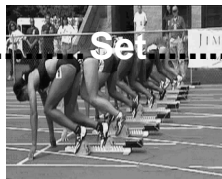
Compensation: Competitive salary with full benefits. Location: Woburn, MA, an industrial suburb about 10 miles north of Boston.

Contact: Doug DeAngelis at (781) 935-6959 or recruitment@finishlynx.com



ReactTime

NEWSFLASH - NEWSFLASH - NEWSFLASH - NEWSFLASH - NEWSFLASH - NEWSFLASH - NEWSFLASH



ReactTime Debuts at National Championships

The production version of the ReactTime Reaction Time Detection system made an unofficial debut at this year's USATF National Championships in Eugene, Oregon.

For the most part, the resident starting crew was up to the task of false-start detection. The only flyers caught by ReactTime that were not called back by the starters were a few starts which happened in the window between the gun and 100ms after the gun (starts in this window are still deemed illegal by both USATF and the IAAF).

While we at Lynx are still not sure how to feel about disqualifying an athlete who starts after the gun is fired, it is remarkable the consistency with which top flight athletes, male and female, achieve reaction times between 150 and 200ms. The 100ms limit is likely not as arbitrary as it seems at first.

System Adaptability

How does ReactTime cope with different athletes?

The National Championships offered a great test of the system's ability to handle a wide range of athletes since it included less specialized heptathletes and decathletes as well as extremely powerful sub-10 second 100M men.

The system's self-normalizing motion detection algorithm is able to effectively function across this wide range of circumstances.

ReactTime sensors can also be used individually as inexpensive personal training devices. They can report not only reaction time but also relative starting power and time to distance. This information can be downloaded to your PC and analyzed later, alternatively key aspects of the data can be viewed trackside on the built-in LCD screen.

Upcoming System Enhancements

Technological advances will make system even easier to use.

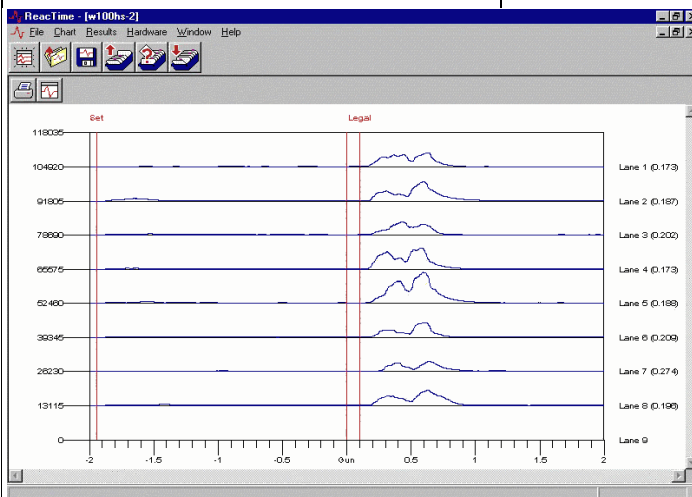
Any of you who attended the meet may have noticed the units which were attached to the back of the standard UCS starting blocks and connecting to each other with standard Ethernet cables.

ReactTime sensors come with a universal mount allowing them to be attached to

same technology that controls air-bag deployment in automobiles.

And while ReactTime may not seem to many people to have the same life-or-death importance as an airbag, we at Lynx know how significant a major competition can be to the athletes involved.

Getting enough parts to manufacture the units has been difficult so far, and demand has exceeded supply. But this should be resolved soon after you get this newsletter, so give a call to the sales department for pricing and get ReactTime components in your budget today.



Screen Capture of 2nd Semi Women's 100m hurdles USATF Nationals 1999 (pictures above)

most any starting block currently in use.

However, the wireless version of the system, which is currently functioning in our labs, will make setup of the system much easier, particularly in the long stagger events such as the 400M and 4x400M Relay.

Mission-Critical Components

The substitution of hard to find components not an option for Lynx Engineers.

One of the key components of the ReactTime system is responsible for accurate motion analysis. This is the

FOR FURTHER INFO CHECK OUT THE REDESIGNED LYNX WEBSITE

www.finishlynx.com gets a whole new look.

You can retrieve more information about ReactTime from the Lynx website.

Thanks to our cross-indexed sports and product areas, a whole new tech-support and FAQ section, and a powerful search feature, the information that you need about the full range of Lynx's products and our services is just a click away.

The ReactTime area of the website features screen captures, a video download, full specifications, and much more. For more detailed information about this product please drop by the website.

As always, we welcome your comments and suggestions. There are automated inquiry forms that are designed to bring you a rapid response to your technical problems and sales questions.

**NATIONAL SCHOLASTIC
OUTDOOR - PONTIAC GRAND
PRIX**

*Combination HS/professional athlete
meet in Raleigh, NC breaks new ground.*

Regina Jacobs went home from the Pontiac Grand Prix Invitational in Raleigh, NC on June 12, 1999 with more than the fastest time in the world this year in the Women's 800m at 1:58.55.

The elite meet was held within the framework of the NSSF Championships, and it gave Lynx the opportunity to create a t-shirt for Regina and present it to her.

Regina ran an exciting race and signed autographs for her fans late into the evening. Our t-shirt team (at the meet as part of our support of the NSSF) printed the FinishLynx image of her race on the back of a meet t-shirt for her. It was great to give her something in return, a token of our esteem that brought a huge smile to her face.

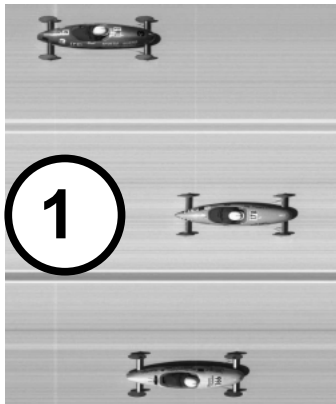
The novel concept of combining an elite High School meet with a major professional meet was a huge success with the young athletes, with the fans who packed the stadium and with the fans who watched on TV. The atmosphere was electric.

**HOPE FOR FINISHLYNX MAC
CUSTOMERS?**

*Reports coming in that the G3 series of
Macintosh computers will operate with
FinishLynx.*

Two dedicated FinishLynx Mac users, Ray Carlson and Colin Kelly, working independently, recently reported to us that they had got a SCSI-based FinishLynx system to work on an Apple G3 (the one with the built in SCSI card). When we hear the results of their tests with the iMac with a new USB/SCSI converter, we will let you know.

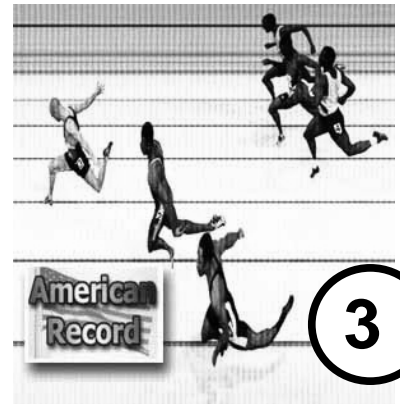
FinishLynx Hall of Frames



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Photo credits:
1: All American Soap Box Derby, 2: HS Sports (UK), 3: Lynx System Developers, Inc. 4: Datasport AG, 5: Flash Results/Lynx System Developers, Inc.

1. All American Soap Box Derby July 31 1999
2. Haile Gebrselassie 5k World (indoor) Record
3. Casey Combest - 6.57 seconds New U.S. High School Record for 60m dash - Nike Indoor Classic, Ohio.
4. 1999 Engadin (Switzerland) Inline Marathon - World Record.
5. Kathleen Rounds bodysurfs her way into 3rd (and the World Championships) USATF 800m.

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