



Cross Country Race Timing with Photo-Finish, Video, & RFID Chip Integration

The FinishLynx Triad is an integrated Cross Country timing system that combines three popular digital products to improve the speed and accuracy of meet results. The Lynx Triad makes Cross Country timing easier by combining **photo-finish**, **video**, and **RFID** results in a single interface.

The finish line at a cross country meet can be a confusing place with multiple finishers crossing at the same time. Athletes can finish fractions of a second apart and accurate team scores often depend on individual results. This makes fast and accurate identification crucial for any cross country meet.



Key Components of the Triad Solution

EtherLynx Vision Camera



Product Category: EtherLynx Vision
Product Description: Vision high sensitivity full-color camera. Accurate to at least 1/1000th of a second and includes 2-D preview.

MYLAPS EasyMat



Product Category: Lap & Split Timing
Product Description: The rollable formula enables you to deploy the timing mat with one movement. The cabling is integrated within the mat, so there's no more manual cable handling needed.

Full-Frame IdentiLynx Video Camera



Product Category: IdentiLynx
Product Description: Full-frame video camera that produces high resolution images that can be integrated in the FinishLynx Software.

MYLAPS SideAntennas



Product Category: Lap & Split Timing
Product Description: The SideAntenna frame stands low on the ground and the antennas allow you to place your BibTag decoder on the back of the frame making the setup compact and easy to handle.

MYLAPS BibTag Portable Decoder



Product Category: Lap & Split Timing
Product Description: Decodes the BibTag signals into the athlete IDs and their measured times. Portable decoders have an integrated battery and can measure up to 50 ThinTag passings per second.

On-Screen Information Display

The FinishLynx software combines the data from the Transponder system(s), EtherLynx camera(s) and IdentLynx camera(s) and displays all the information about the hardware on the screen.

Changes to any camera settings can be made quickly and easily.

Accurate Times from Photo-Finish

When times are read from the photo-finish image, they are accurate and precise.

Finish order generated by Transponders is based on the location of the tag, but photo-finish times are accurately read from the position of the torso for precise results.

MYLAPS BibTag Decoder

The decoder attaches to the mats and decodes the BibTag signals into the athletes IDs and their measured times.

Decoders have an integrated battery and can measure up to 50 ThinTag passings per second.



FinishLynx - [Women 6k (1-1-1)]

File Edit Event Image Results Scoreboard LapTime Window Help

(no starts) (no capturable events) 0.0 Stopped

Reader

LapTime	Total Laps	Laps/Split	Too Fast Ti	Too
Women 6k		1	1	1
Start	10:30:25.55			
Wind			100M (0.0,10.0)	
LapTime		1		
Finish				
Camera 1	1400	448	Wide 33%	
Camera 2	30	512	Wide 50%	
Results	6000			

Place	Id	Time	Delta Time	Cum. Split Time	Last Split Time	Laps
52	12	22:15.45	0.84	22:15.31	8:51.51	3
53	11	22:16.67	1.22	22:16.62	9:02.30	3
54	15	22:17.31	0.64	22:17.34	8:51.12	3
55	18	22:22.43	5.12	22:22.32	8:52.25	3
56	15	22:24.52	2.09	22:24.45	8:55.04	3
57	15	22:24.52	0.00	22:24.52	9:00.21	3
58	15	22:24.62	0.10	22:24.59	8:59.79	3
59	22	22:24.89	0.27	22:24.82	8:53.18	3
60	24	22:29.01	4.12	22:28.92	8:57.39	3

22:24.52 | 100 Camera 1

22:24.55 | 100 Camera 2

EtherLynx Vision Camera

The Vision is a powerful photo-finish camera with an array sensor that integrates with FinishLynx to produce high-speed results. Evaluating races with 100, 200, or 300+ competitors is no problem. Image capture time is virtually unlimited so you never have to worry about missing a competitor. The image can be scrolled and zoomed so even the closest of races are easily resolved.



Overlay RFID Transponder Times

See the lines and instantly verify that every athlete's transponder has been recorded by the system.

IdentLynx Video Camera



The full-frame video images confirm athlete identification with ease. Video footage can be cropped and exported to AVI files or JPGs.

Precise Image Control

Images are time-indexed and can be zoomed, advanced, or rewound frame-by-frame.

Sample Event Description

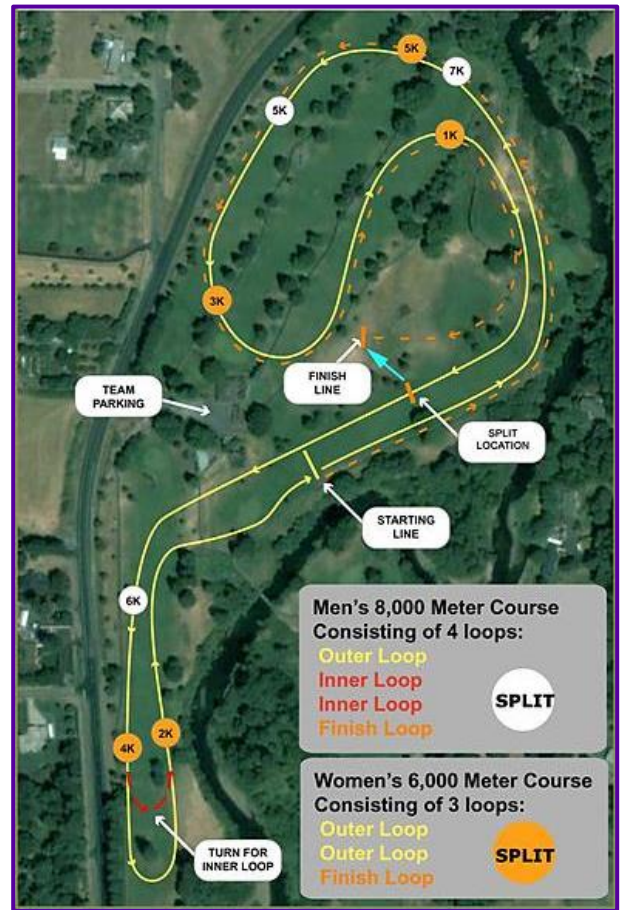
The Sample Cross Country Meet is a major cross country competition consisting of a men's 8 kilometer race and a women's 6 kilometer race with athletes competing from 10 schools. The event is held on a looped course that circles a section of a golf course. The women's race is three loops, the men's course is four loops – as shown on the right.

Solution – Overview

Producing timely and accurate results for the sport of Cross Country has always been challenging. With so many athletes in a race, the ability to identify competitors accurately and rapidly, to provide accurate times and finish order, and to link every athlete with their respective finish times, has almost seemed beyond the scope of any single technology. But by linking three complementary products together, Lynx has created a synergistic solution that is greater than the three systems working independently.

Lynx solved the problems inherent in the sport by seamlessly linking a triad of products: EtherLynx photo-finish, IdentiLynx full-frame video, and MYLAPS RFID.

1. **EtherLynx cameras** ensure accurate results and a visual record of every athlete crossing the finish line as a photographic confirmation of transponder readings.
2. **IdentiLynx cameras** produce full-frame video images which make verification of athlete identification easy.
3. **RFID transponder technology** provides rapid, real-time athlete identification.



Solution – Hardware and Software

The diagram to the right shows components that can be used and how simple the interconnections are between them. All the separate data collection devices are linked to an Ethernet hub wirelessly or by a simple RJ45 cable and information is combined effortlessly by the FinishLynx software:

- ✓ FinishLynx Timing and Photo-Finish Software
 - LapTime Software Plug-in
 - Network Com Port Software Plug-in
- ✓ EtherLynx Vision Photo-Finish Camera
- ✓ IdentiLynx Full-Frame Video Camera
- ✓ MYLAPS Transponders and Detection System
 - BibTag Portable Decoder
 - EasyMat
 - SideAntennas
- ✓ RadioLynx Wireless Start system

