DELLINGER INVITATIONAL

EVENT DESCRIPTION:
The Dellinger Invitational Cross Country meet is a major collegiate cross country competition hosted by the University of Oregon, consisting of a men’s 8 kilometer 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 historically 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 IPICO transponders.

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

SOLUTION ~ SOFTWARE AND HARDWARE:
- FinishLynx Timing and Photo Finish Software
  - LapTime Software Plug-in
  - Network Com Port Software Plug-in
- EtherLynx Photo Finish Camera
- IdentiLynx full-frame video camera
- IPICO transponders and detection system
  - Elite Reader Kit for split point (10 meters wide)
  - Lite Reader Kit for finish line (5 meters wide)
**On-Screen Information Display**

The FinishLynx software combines the data from the Transponder system(s), EtherLynx camera(s) and IdentiLynx camera(s) and displays all the information about the hardware on the screen. Changes to any Camera settings can be made quickly and easily.

**Automatic Athlete Listing**

A drop down listing of the athletes in the order they crossed the finish line makes results production easy.

**EtherLynx Fusion Camera**

The phenomenal light sensitivity and the availability of affordable fast lenses for the Fusion camera means that sharp and clear images can be taken even in poor light conditions.

Evaluating races with 100, 200, 300 competitors is no problem – image capture time is virtually unlimited so you never have to worry about missing a competitor.

Image can be scrolled and zoomed so that even the closest of races are easily resolved.

**Transponder Times on Image**

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

IPICO Elite Reader
The Elite reader produces times from detection mats covering a 10 meter wide finish line. The LITE reader can cover up to 5 meters – both have built in rechargeable batteries.

Lap Counting
Transponders can record lap counts automatically. Also, you can set a “too fast” and “too slow” time for each split and the system will warn you if an athlete is missed.

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

IdentiLynx Camera
The full-frame video images confirm athlete identification with ease. Video footage can be cropped and exported to AVI files or JPG’s.
The schematic on the right shows the components used at Dellinger and how simple the interconnections are between them. All the separate data collection devices are linked to an Ethernet hub by a simple RJ45 cable and information is combined effortlessly by the FinishLynx 32 software:

- EtherLynx Fusion Camera
- IdentiLynx Camera
- IPICO Elite Transponder System
- IPICO Lite Transponder System
- RadioLynx Wireless Start System

### Key Components

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>5L400</td>
<td><strong>EtherLynx Fusion Camera</strong></td>
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<tr>
<td></td>
<td><strong>PRODUCT CATEGORY</strong>: EtherLynx Fusion</td>
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<tr>
<td></td>
<td><strong>Full Product Description</strong>: High Sensitivity Color Camera, with a base rate/resolution of 2Kfps by 1K pixel density</td>
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<tr>
<td>IDL-511</td>
<td><strong>2D 1024x768, 15fps Head on IdentiLynx Color Camera</strong></td>
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<td></td>
<td><strong>PRODUCT CATEGORY</strong>: IdentiLynx</td>
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<tr>
<td></td>
<td><strong>Full Product Description</strong>: Full Frame Video Camera that produces high resolution images that can be integrated in the FinishLynx software.</td>
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<tr>
<td>TL-IP30-00</td>
<td><strong>Elite Reader Kit (1) 4 - 2.4M x 1.2M Mats</strong></td>
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<td><strong>PRODUCT CATEGORY</strong>: Lap &amp; Split Timing ~ Passive Tags</td>
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<tr>
<td></td>
<td><strong>Full Product Description</strong>: Kit includes: Elite Reader, Mains Power Supply, Power Cord, Ethernet Crossover Cable, External beeper and 4 - 2.4M x1.2M Mats</td>
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<tr>
<td>TL-IP30-02</td>
<td><strong>Lite Reader Kit 2 – 2.4M x 1.2M Mats</strong></td>
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<td></td>
<td><strong>PRODUCT CATEGORY</strong>: Lap &amp; Split Timing ~ Passive Tags</td>
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<tr>
<td></td>
<td><strong>Full Product Description</strong>: Kit includes: Lite Reader, Battery Charger, Power Supply Cable, Ethernet Cable, USB Serial Console Cable, USB Flash Drive, 2 – 2.4M x 1.2M Mats</td>
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