
FinishLynx Release Notes Version 7.50



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New IdentiLynx Features

+ There is now support for IdentiLynx cameras' native ACM. This is a separate capture checkbox ("Automatic (IdentiLynx Motion)") that only appears for IdentiLynx cameras. You can control the trigger, size, and active area in the camera dialog. You can also set the active area by selecting image in an event and selecting "Image|Set|Object active area" in the menu.

+ You now get frame times when using an IdentiLynx camera without any EtherLynx cameras booted. You can also create a manual start in this setup to see elapsed times in the image (rather than time of day). All times (frame times and manual start time) come from the PC clock.

+ You can now retain the overlay setup of your IdentiLynx camera so that it will appear in the next event you create (or load). After creating the overlays you want in the IdentiLynx pane select "Image|Retain overlays".

When this feature is active a checkmark will appear next to the menu item. To clear the retained overlays simply select "Image|Retain overlays" again and the checkmark will go away.

When an event is loaded or created the retained overlays will automatically be added for you. You can remove these overlays and/or add more overlays without affecting the retained overlays.

General New Features

+ If enabled, "Show Lines" and "Split Lines" now appear in full screen mode.

+ When "Find Object" doesn't find an object because it's at the end of the image, it asks whether you want to search from the beginning. If you choose "No" (the default) then the next time you run "Find Object" it will start from the last object found. (In other words, it will find the first object in whatever new image has been added.)

+ There is a new hidden setting (Event\Image\FindObjectMode, default 1) that controls how image is scrolled when using the "Find Object" command. A value of 0 gives the old behavior (move the hash to the object, center if off screen), a value of 1 always centers the hash, and a value of 2 moves the object to the current location of the hash (centered if the hash is not currently visible).

+ There is a new "Crop to results..." function. What it does is crop out all of the image except for the image around each result's evaluated time.

Selecting this option brings up a dialog box where you can set the Leader, Trailer, and Range. The Leader and Trailer are how many frames before and after the result's evaluated time will be kept in the picture. The Range works the same as the recently added Range parameter in the "print results with image" function. If left blank, all current results will be used. This function works for both line scan and area scan images. Separate Leader and Trailer values are remembered for the two kinds of images since the reasonable values for each are so different.

+ There is a new "Cropped Image Warning" that comes up if you try to save an event that has had the "Crop to results" or "Keep selection" functions run without subsequently uncropping the image. Since these functions can potentially remove a lot of image with one simple command you must confirm that you want to save the event in this state. Note that if you are doing a "Save as" (which will leave an uncropped copy of the event behind) then you do not get the warning. The first "Save" or "Save as" done on an event does not leave a copy behind, so you will get the warning.

If you really don't want to see this warning you can set \Event\WarnCropped to 0.

+ There is a new "File|Reload" command that is enabled when an event is opened in Reader mode. This is used to load the latest info that the capture computer has stored in the .evn file. This is useful when using Reader mode and Time Trial mode together, as starts will typically come in after the reader computer has opened the event. (This command is equivalent to saving the event, closing the event, and then re-opening the event.)

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+ When the on-screen running time is set to stop (controlled by hidden setting Scoreboards\StopDispTime) the precision used is now the "Options|Results Tab|Default Precision" value. It used to be hard coded at hundredths.

New EtherLynx Features

+ There is now support for setting size and active area in EtherLynx ACM. These settings work the same as the size and area settings for internal photo eye.

+ Camera booting and timer sync is much improved for multi-NIC systems.

The short of it: You can have more than one NIC installed and active, and FinishLynx will find which one has cameras attached and will properly boot and timer sync those cameras. (FinishLynx will do this without having to set BaseIPAddress.)

New Scoreboard Features

+ Two new scoreboard scripts have been added: "Adaptive16x128.lss" and "Adaptive16x128Sprints.lss".

+ The User 1-3 fields are now accessible through the scoreboard interface. They are documented in Example2.lss. Note that these fields have codes above \0f, which means that to use them you *must* use the full two byte "version 2" code. The two byte codes can be freely mixed with the single byte codes, so if you are adding these fields to an old style script you can leave the rest of the script unchanged.

+ There is a new ARMED/RUNNING results header field in the scoreboard output. This new field is listed in the comments section of the Example2.lss script.

New Results Features

+ There is a new hidden setting (Event\Image\Hash\AddSplitMsg, default 0) that when set to 1 will cause a warning message when a LapTime split is added from image and there isn't already a results entry for that split. The warning is only displayed if the event's results were loaded from a start list. (This is the same as it works when entering a regular result time.)

+ You can now disable filters in the Result Filters Dialog. Disabled filters are shown in gray and enabled filters are shown normally (in black). There is a new button next to the filter list that shows "Enable" or "Disable" depending on the current state of the selected filter. At the bottom of the dialog is a new setting for how many filters can be enabled at the same time. The options are "Single" and "Multiple." If "Single" is selected then whenever a filter is enabled all other filters will be disabled. "Multiple" obviously allows as many filters to be enabled as you like.

There is a "shortcut" menu for choosing which filters are enabled. If you click in the results area title bar on any columns that don't already have a shortcut menu (Time, Delta Time, and Speed already do) then you'll get a menu of all defined filters with the enabled ones checked. Selecting a filter toggles its state.

+ There is another new option on the Result Filters Dialog that allows you to choose which filters are used when calculating the place field. Selecting "Enabled" will give you the standard behavior, which is that the place field will be assigned based solely on the visible results given the currently enabled filters. Selecting "None" will assign the places with no filters defined. Selecting "All" will assign the places with all filters (even disabled ones) defined.

Selecting "None" is the "quick and dirty" way to see the overall places when looking at just a subset of the results. This will work *if* all results are using the same start time *and* there aren't any manually entered times.

If you select "All" then you have more control over how places are assigned for non-visible results. For a race with different start times for different groups of results you can assign the correct start time to each non-visible result using a disabled filter. Also, if you have a mix of manually entered times and automatic times then they will compare correctly because the non-visible automatic times will have a start subtracted off.

+ There is a new hidden setting (\LapTime\CreateSplits, default 0) which, when set to 1 when a "From Image" LapTime device is active, will cause a "From Image" split to be created each time a result is entered from the image.

+ When the first official time is read the LapTime based place numbers are now cleared for all un-read results. This behavior is controlled by a hidden setting (\LapTime\FillPlaceStyle). The default of 1 gives the new behavior and a value of 2 gives the old behavior.

+ There is a new hidden setting (Event\Image\Hash\ResultPopupKey) that allows you to select which field is displayed in the "Add Result" popup menu. The default of 2 is Affiliation. If you look at this setting in the Hidden Settings Dialog you'll see a list of available fields.

New Print Feature

+ There is a new range field for "Print results with image." This allows you to select which results (if you don't want the first "n") to print with the image. The way you can select results is exactly the same as the LapTime "Active Splits" field.

This can be a simple comma separated list (1,2,3), a bounded range (4-99), or an unbounded range (4-). You can even specify unbounded arithmetic series (1,3,...) or bounded arithmetic series (1,3,...15). The arithmetic series can also go down instead of up (15,13,... or 15,13,...7).

If you'd like to specify which values are **not** allowed (rather than which are allowed) you can begin the entire string with a carat (^). If you'd like to invert the meaning of a single field you can begin the field with a tilde (~).

Some examples:

Accept 1 through 5:

1,2,3,4,5

1-5

1,2,...5

Accept 11 and higher:

11-

^1-10

Accept all odd values:

1,3,...

^2,4,...

Accept all odd values to 15:

1,3,...15

Accept all **but** odd values to 15:

^1,3,...15

Accept 1-5, even values to 20 (except 14), then every third value:

1-5,~14,6,8,...20,23,26,...

Accept all values divisible by 5 except those also divisible by 4:

~4,~8,~....,5,10,...