

SETTING UP LYNX

BASIC SETUP OVERVIEW:

- 1-scout setup area, check for power, define responsibilities
- 2-mount camera(s)(7'x7' bare minimum)
- 3-make cable connections from camera to black box to hub/computer
- 4-make cable connections from networked computers (if used) to hub
- 5-setup lynx main directory (shared if using network)
- 6-check software settings and align camera (lynx main computer)
- 7-check software settings for networked computers (if used)
- 8-run test and save

Before you begin:

- 1) Make sure that your computer's IP addresses are set up according to the Lynx manual.
- 2) Ideally, your computer's IP address will be as follows:

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lynx capture: 192.168.0.5
lynx reader (if used) 192.168.0.10
hytek 1 192.168.0.15
hytek 2 192.168.0.20, etc
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Note: all machines must have a unique IP address with in the same range and are spaced 5 numbers apart.

To do this, on each machine:

-go to Start, My Network Places, then look for Local Area Connection (wired) (if not there then on the left hand side select View Network Connections and then look for Local Area Connection) and right click and select Properties, then click once on Internet Protocol (TCP/IP) and click on Properties, then type in the appropriate IP address (subnet mask will be 255.255.255.0) then click OK, OK.

You will also want to disable any other network connections such as wireless. To do this:

-right click on the connection and select Disable.

Finally, you must disable all Firewalls --this includes both Windows Firewall (Start, Control Panel, Windows Firewall (or Security Center) AND any 3rd party "security center" or "internet security" software that also came on your computer like Norton Security Center or McAfee Security Center, etc. To disable these look for them in the lower right of your system tray (near the clock), right click on them and select Disable. This must be done each time you start the computer unless you manually uninstall these program(s).

1) CABLE CONNECTIONS FOR LYNX

A) To Camera:

- 1- mount camera (7'x7' minimum/12'x12' ideal) and make sure camera power switch is Off
- 2- connect "wide" gray cable
- 3- connect blue (cat5) cable
- 4- connect power cable [to camera & power source]

B) From Camera to Black Box:

- 1- other end of "wide" gray cable
- 2- other end of blue (cat5) cable

C) Also on Black Box:

- 1- if using lynx on a network to either read races/print pictures set switch to "Hub Yes"
- 2- plug in start signal source (hardwire with gun sensor, or RadioLynx, etc)
- 3- plug in another blue cable (cat5) and connect to either:
 - a-hub (if using a network) OR
 - b-lynx main computer (if NOT using a network and set Black Box to "Hub No")

D) If Using a Network (i.e. more than one computer):

- use a blue (cat5) cable to plug in all other computers to hub
- once all connections are made turn on lynx main computer and any other ones that may be networked (if applicable), then lynx camera(s)

2) CREATING MEET DIRECTORY

-once lynx main computer is up you will now need to create the directory/folder where you will save/store/share the particular day's races.

A) To do this in Win XP (Win 9x will be somewhat similar):

- 1- at your desktop, double click on My Computer (or Start, My Computer...)
- 2- double click on Local Disk c:
- 3- right click inside of box and click New and then Folder
- 4- then name the folder to whatever you want for the particular meet (i.e. mar302)(which means March 3, 2002), etc. KEEP it short
- 5- after naming it hit Enter [to save your entry]

B) If Networking a Reader or Picture printing computer (If not, skip to # 3 below):

- 6- then right click on your newly created directory
- 7- and click on Sharing & Security
- 8- then select Share This Folder on a Network and Allow Network Users to Change Files
- 9- then click OK

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3) LYNX SETTINGS ON LYNX MAIN COMPUTER:

- A) start the lynx software...make sure the camera is turned On first.
You should see the green bars load up on the bottom of your screen and the camera(s) online--- If the camera is not online you will not see a camera information box and you may have received an Error Booting Camera(s) message...close out the software and check your cable and power connections before trying again
- B) when the software/camera(s) are loaded successfully you, at the very least, will need to:
- 1) click on camera name, then the blue "I" (near top left) and set:
-Image Orientation (which way the athletes will be running as the camera will see them)
-Identify By: Lane or None [mainly for track & field purposes]
-under Parameters set the Rate to 800 and Density to 500 AND select AGC for Gain Method
-under Inputs select your type of gun sensor --
lynx hardware is usually Manually Closed and if using the Lynx wireless the settings are under the RadioLynx tab
 - 2) click OK to save and go back to the alignment screen
 - 3) click on the Red dot (should now turn green if camera(s) are still online --picture will now start moving across screen for you to align the camera with the finish line (white track, black lane lines)
 - 4) also, set your iris to a gain of about 40-50 before actually aligning camera and make sure your focus is set to Infinity (Focus Far -or all of the way clock-wise)

4) Saving Races to the Specified/Correct Directory:

2 ways --both have their advantages:

- A) Option 1- after you capture and/or read your first race click File, Save As, - then click in the top box [Look In][Lynx]and then click on Local Disk c:, and browse to the directory that you created earlier -name your race [ex:b100-3]and hit Enter...

NOTE: provided that you do not exit lynx or that lynx does not crash, Every time you save a race lynx will automatically bring you to this directory --so all that you will need to do is Save and Name your race, etc If you exit lynx, etc. you will again need to browse to the directory as said above

OR,

- B) Option 2- you can set lynx to automatically go directly to that directory EVERYTIME you save a race...

NOTE: unless you change this setting, as you would for a new meet, you risk unintentionally saving and overriding the previous meet's races.

So, if you choose this option remember to change the specified directory by:

- click on File, then Options
-then under Event Directory browse to your specific meet directory and click OK

5) SETTING UP LYNX READER/PRINT COMPUTER(S)-NETWORK (if not using, skip to # 6 below)

- A) after computer(s) are connected [to hub] and up and running...

- B) start lynx program

IMPORTANT!!

- C) you must set these computer(s) so that they will **NOT** detect the lynx camera. Failing to do so could result in a crashed lynx main computer and missed races!!!!

- D) To do this, once the program is started go to:

- 1-File, Options, Hardware
- 2-under Hardware Type select None
- 3-click OK
- 4-then close the lynx program and re-start it --Very Important!!

Note: this setting will not change unless someone manually changes it...

in the event that the particular machine was needed at some time to be the primary main lynx computer [in which it would have needed to be set to Detect]

- E) After doing this one may view/print races that have already been run

AND saved by the lynx main computer by going to:

- 1-File, Open and in the top box [Look In][Lynx]click once
- 2-then click on Network Neighborhood [or Network Places -Win XP]
- 3-and then browse to the directory that the particular meet's races are being stored in on the lynx main computer

You may also map a network drive to that race directory as similarly outlined in the Hytek to Lynx outline (Section 3)

6) BASIC MEET OPERATION:

- a-load race -- re-arm if necessary
- b-check start signal
- c-capture runners & crop (Auto)
- d-alt-s (or other means to stop clock if applicable)
- e-read race
- f-save race
- g-print results (if applicable)