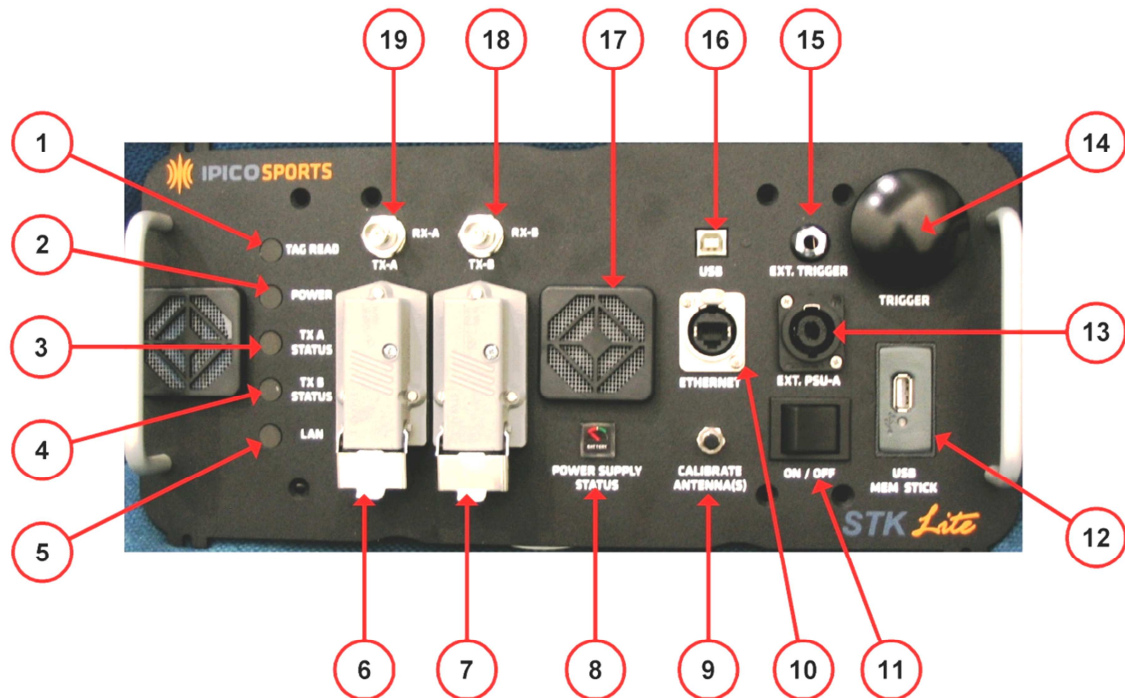# IPICOSPORTS

GETTING STARTED WITH YOUR LITE READER

Included materials:

Lite Reader
USB Memory Stick, 1 GB (User's Manual and referenced files included)
CAT-5 Ethernet Cable
Mascot 3-step charger

FIGURE 1 – DIAGRAM OF LITE READER INTERFACE
(Graphic excerpted from Lite Reader User's manual)

1. Tag read indicator
2. Power indicator
3. TX-A Level indicator
4. TX-B Level indicator
5. LAN Activity indicator
6. Antenna A transmitter connector
7. Antenna B transmitter connector
8. Power supply status indicator
9. Antenna calibration button
10. Ethernet Communications Connection
11. Power ON/OFF switch
12. USB Memory stick controller
13. External power supply connector
14. Trigger button
15. External trigger connector
16. USB communications connector
17. Ventilation Fan/Filter
18. Antenna B receiver connector
19. Antenna A receiver connector

STEP 1: LITE READER POWERING/CHARGING

CHARGING THE LITE READER

FIGURE 2 – PLUGGING IN THE 3-STEP CHARGER
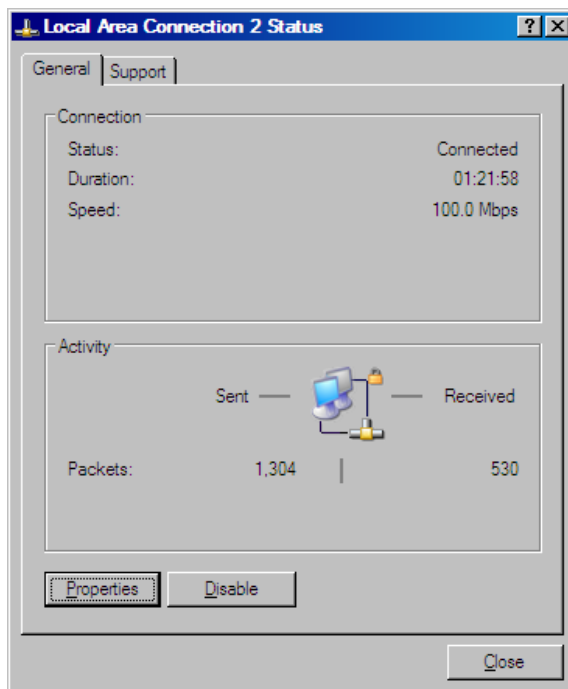(Be sure to twist the connector to lock in place and power the unit)

- Plug the 3-step charger into the External Power Supply Connector (diagram #13), ensuring that unit power switch indicates that the unit is OFF.
- The LED on the charger will indicate one of three states by color as the unit charges; an orange LED color is the lowest charging state, a yellow LED color indicates mid-charging state and a green LED color indicates full/stable charge.
- **DO NOT LEAVE THE CHARGER PLUGGED INTO THE UNIT FOR MORE THAN 12 HOURS EVEN IF THE CHARGER DOES NOT DISPLAY A GREEN LED, AS THIS WOULD INDICATE A DAMAGED BATTERY.**
- When the LED charger light is green, the battery is at a ready state, indicating a full and stable charge.
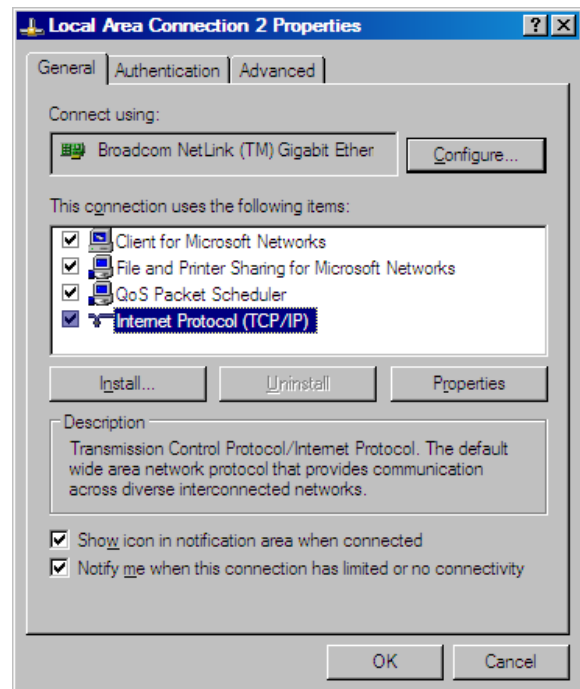
POWERING THE LITE READER

- The unit is safe to operate while 3-step charger is connected to the External Power Supply Connector (diagram #13).
- To power the unit, switch the Power ON/OFF Switch (diagram #11) to the ON position.
- When powered, the reader's Power Indicator (diagram #2) will turn green, this means that the unit is powered.
- The unit will emit audible beeps when turned on. This is a standard part of the booting procedure. The beeping will shortly stop. If it does not, this may indicate a problem with your Lite Reader and IPICO Sports should be contacted about such problems.
- When ON, the unit's Power Supply Status Indicator (diagram #8) will display a visual representation of the unit's power. If the needle of the indicator is on the green side of the spectrum, the unit has a stable and operable charge. If the needle is on the red end of the spectrum, the unit needs to be charged with the 3-step charger. The reader's battery will continue to charge even while it is powered ON.

IPICO SPORTS

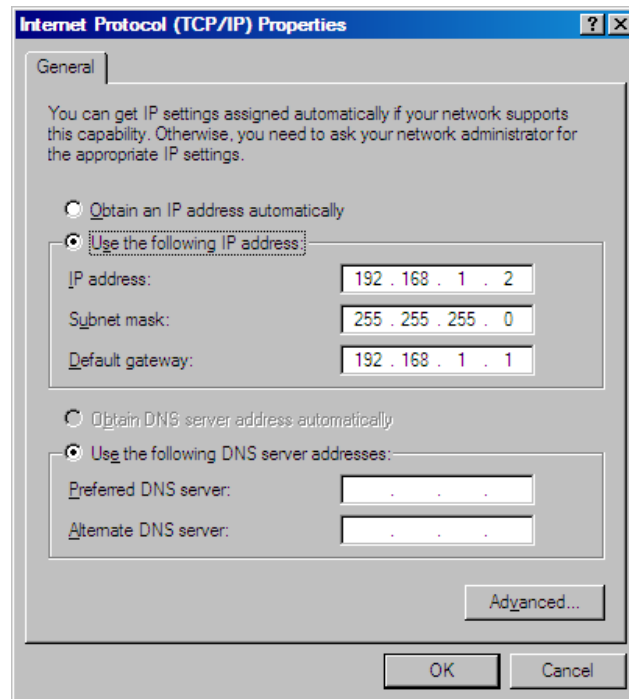## STEP 2: CONFIGURING YOUR LITE READER FOR OPERATION

- Once powered ON, insert the CAT-5 Ethernet Cable included with the Lite Reader into the network port on your computer and into the Ethernet Communications Connection (diagram #10).
- The default reader IP address is 192.168.1.101, or in the 192.168.1.* range. In order to communicate with the Lite Reader over the CAT-5 Ethernet Cable, the IP address and range on the computer connected to the reader must change as well. Open your computer's Control Panel and navigate to "Network Connections," double clicking it and finding "Local Area Connection," also double clicking that icon. Follow the process indicated in **FIGURE 2** to change the IP address of the computer connected to the reader (figure on next page).
- Once completed, attempt to connect to the reader by using Microsoft Telnet, a program that comes with Windows. Start Telnet by clicking Start ➤ Run ➤ and typing "Telnet" into the box that appears upon clicking "Run."

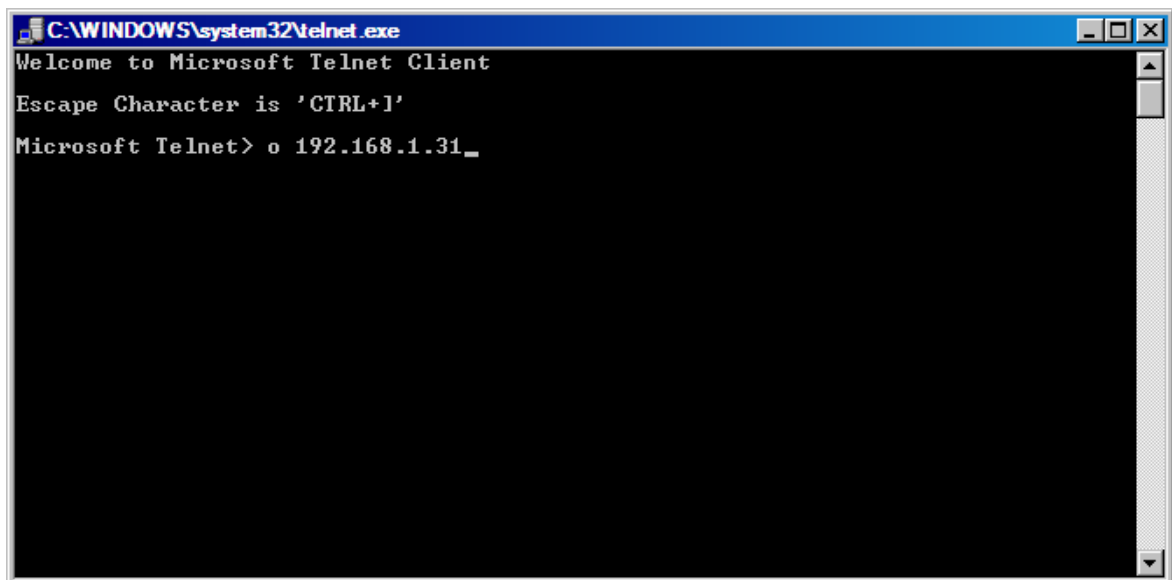**STEP 1 – CLICK ON "PROPERTIES"**

STEP 2 – HIGHLIGHT "INTERNET PROTOCOL (TCP/IP)" AND CLICK "PROPERTIES"

STEP 3 – CLICK "USE THE FOLLOWING IP ADDRESS" AND SPECIFY THE ADDRESSES AS LISTED, CLICKING "OK" TO EXIT AND SAVE

FIGURE 3 – CONFIGURING COMPUTER IP ADDRESS
(Windows XP pictured)

▪ The use of Telnet is detailed in Figure 3 below:

STEP 1 – TYPE "o [IP ADDRESS OF YOUR READER]" (IN THIS CASE 192.168.1.31) AND PRESS "ENTER"

STEP 2 – AFTER PRESSING "ENTER," THE ABOVE SCREEN SHOULD APPEAR, GIVING THE USER ACCESS TO THE CONFIGURATION DETAILS OF THE READER.

FIGURE 4 – STANDARD LITE READER TELNET SESSION

- To set the basic details of the reader's configuration, key in the selection numbered "1" at the prompt which reads "Key in Your Selection." After keying in "1," press "Enter" to go to the "Basic Settings" menu.
- From the "Basic Settings menu," the user can change the time zone of the reader as well as the local time by which the reader operates.

FIGURE 5 – BASIC SETTINGS MENU

- The above figure (Figure 4), details the "Basic Settings" menu. To change the time zone, Key in selection number "2" and press "Enter." For all other listed settings, key in their number or letter in the same way and follow the prompts that appear.
- Enter "m" into the selection prompt to return to the Main menu, and "q" to quit the Telnet session completely.
- Once finished setting configuration settings, users can key in "q" as their selection to end the Telnet session.

STEP 4: CAPTURING DATA THROUGH THE READER

USB MEMORY STICK PREPARATION

FIGURE 6 – INSERTING USB MEMORY STICK INTO READER

- When ready to take tag data, insert the USB memory stick into the Lite Reader in the USB Memory Stick Controller (diagram #12).
- When the stick is inserted into the system, the system will beep twice, recognizing the memory stick, and creating the tag data file, TAGDATA.TXT.

CONNECTING MATS TO THE READER

- The IPICO Sports Lite Reader has inputs for two (2) mats, an A transmit channel and receive channel, and a B transmit channel and receive channel (diagram [A] #19, #6 and [B] #20, #7, respectively).
- To connect the mats, insert the large gray connector into either the TX-A or TX-B connector (diagram #6 and #7, respectively) and the small connector (resembling a coaxial connector) into the RX-A or RX-B connector, keeping consistency between connectors (i.e. use RX-A if mat is in TX-A and RX-B if mat is in TX-B). See **FIGURE 5** for more detail.
- These channels have corresponding LED lights located at the left of the reader panel interface (diagram [A] #3, [B] #4). When connecting mats to these inputs, the LEDs may become red in color. This indicates that the antenna settings need to be calibrated. This is done by using the "Calibrate Antenna(s)" switch (diagram #9).
- After calibrating the channels, the LEDs should return to green color, indicating that the reader is calibrated for use with the attached mats. If the LEDs remain red, this may indicate a problem with the reader, and IPICO Sports should be contacted.
- After connecting your mats to the Lite Reader, your reader will be ready to read tags.

FIGURE 7 – CONNECTING MATS (RX CHANNEL)
(Be sure to twist the RX connector into place as well to ensure a solid connection)

FIGURE 8 – CONNECTING MATS (TX CHANNEL)

READING TAGS / FINISHING SESSION

- Holding a tag over an attached mat, lower the tag until the unit starts to emit a beeping noise rapidly. This indicates that the tag is being read; the "Tag Reader" indicator (diagram #1) will flash green when reading tags.
- Once finished reading tags, hold down the "Trigger" button (diagram #14). Hold the button until the unit emits a beeping noise four successive times. This prepares the tag data read by the Lite Reader for analysis. Once this process is complete, the USB Memory stick can be removed from the system safely.