

*EZ Trax*TM

Quick Start Guide



Step 1 — Install EZ Trax

Once your reader is connected to a host computer with Windows operating system (Vista, XP, or 2000), you can use EZ Trax to capture, store, and retrieve symbol images.

If downloading from your EZ Trax CD:

- Insert the CD in your computer's CD drive.
- Choose **EZ Trax Software** from the main menu.
- Launch **Setup.exe** under **EZ Trax** and follow the prompts.

If downloading from the web:

- Go to <http://www.microscan.com/downloadcenter>
- Create a new "myMicroscan" member account or, if you are already a member, enter your user name and password.
- Click the **Download Software** link and download the latest version of EZ Trax to a directory of your choice.
- At the end of the installation process, the following icon will appear on your desktop:



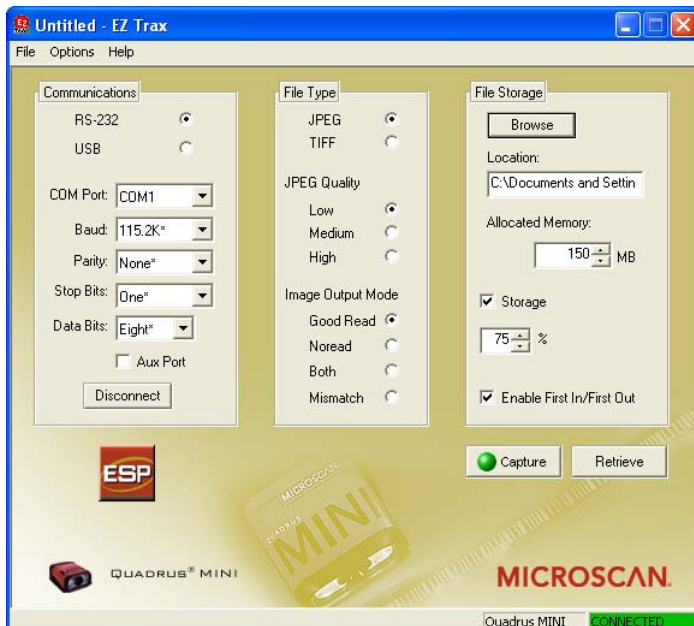
- Click the EZ Trax icon to start the program.

Step 2 — Select Reader Model

When you first run EZ Trax, the following dialog will appear:



Click the button beneath the picture of your reader. The main interface for your selected reader will then appear. The example below shows the Quadrus MINI interface.

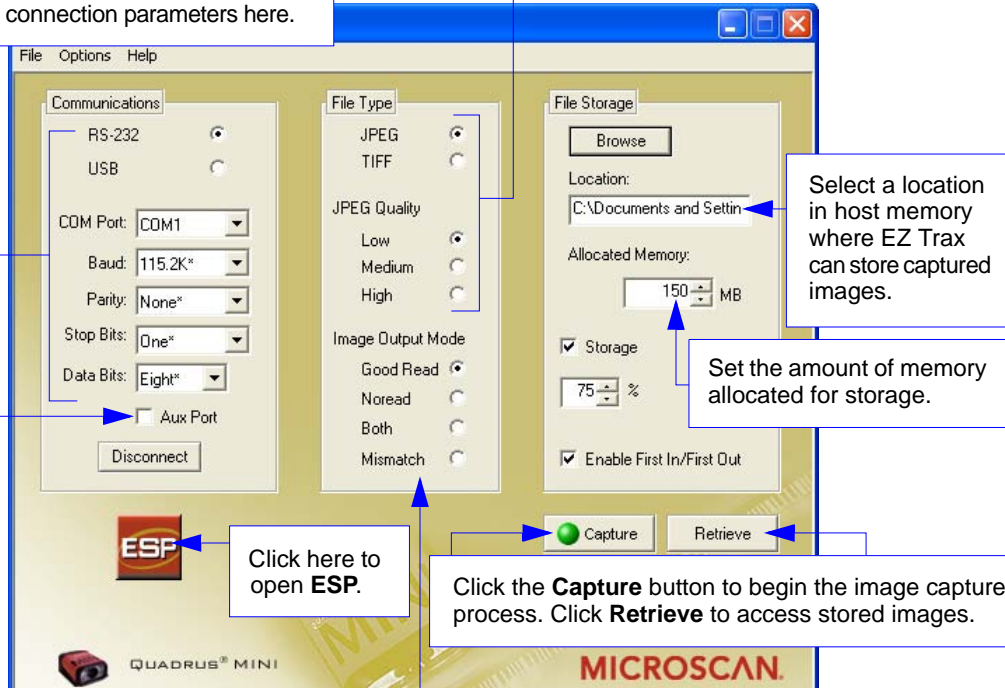


Step 3 — Explore the EZ Trax Interface

Choose which format to use for output of captured symbol images.

Hint: TIFFs and BMPs, while higher resolution than JPEGs, take significantly longer to transfer.

Set connection parameters here.



Select a location in host memory where EZ Trax can store captured images.

Set the amount of memory allocated for storage.

Click here to open **ESP**.

Click the **Capture** button to begin the image capture and storage process. Click **Retrieve** to access stored images.

EZ Trax can capture and store an image for each Good Read, Noread, or Mismatch (between the captured symbol and a Master Symbol). It can also be set to capture for both Good Reads and Noreads.

Note: Image Output options vary depending on the reader that is in operation. The Mismatch option is available for Quadrus MINI and MS-4 only.

When the **Aux Port** box is checked, you can use the Aux Port to transfer image captures while you use the Host Port to run another application in tandem with EZ Trax.

Note: Only the Quadrus MINI and MS-4 support this feature. See [Configure Your Reader in ESP](#) for details about how to prepare the reader for Aux Port operation.

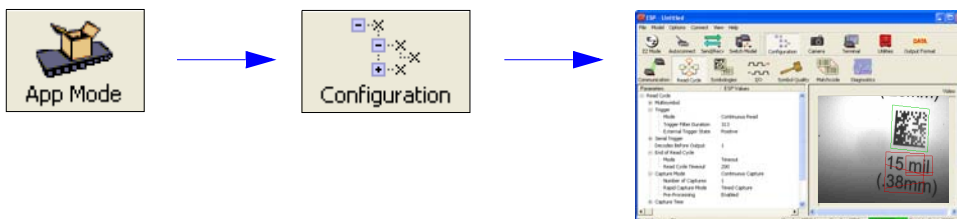
Step 4 — Configure Your Reader in ESP

Your reader can be configured in three ways using **ESP**:

- Choosing items from dropdown menus in the tree controls.
- Sending commands in **Terminal** mode.
- Interacting directly with the graphic interfaces.

To configure your reader in **ESP**, click the **App Mode** button. Once you are in **App Mode**, click the **Configuration** button and then use the tree controls, the **Terminal** window, and the other graphic interfaces available to set and save desired reader parameters.

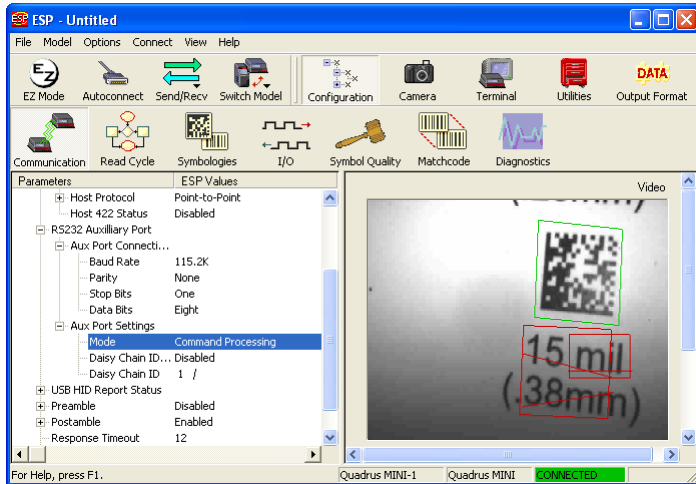
Important: The reader's **Trigger Mode**, <K200>, must be set to **External Edge**, and its **Capture Mode**, <K241>, must be set to **Rapid Capture** for EZ Trax to operate correctly.



Configure Your Reader in ESP (continued)

Important: If you will be using the Aux Port for an application other than EZ Trax, you must first set **Aux Port Mode**, <K101>, to **Command Processing**, as shown below. (Only the Quadrus MINI and MS-4 support this use of the Aux Port.)

For more information on how to enable Aux Port, see [Select Communications Protocol.](#))



Step 5 — Select Communications Protocol

For RS-232:

The screenshot shows the 'Communications' dialog box with 'RS-232' selected. The 'COM Port' is set to 'COM1', 'Baud' is '115.2K', 'Parity' is 'None', 'Stop Bits' is 'One', and 'Data Bits' is 'Eight'. The 'Aux Port' checkbox is unchecked. A 'Connect' button is at the bottom.

Use the dropdown menu to select your port setting (COM1 is default).

Default settings for **Baud Rate**, **Parity**, **Stop Bits**, and **Data Bits** are automatically chosen when you open EZ Trax.

If you need to use a separate application to collect symbol data while you are capturing images with EZ Trax, you can enable the Aux Port for simultaneous operation. For an explanation of how to configure the reader for simultaneous Aux Port and Host Port operation, see [Hardware Configuration for Aux Port Operation.](#)

For USB:

The screenshot shows the 'Communications' dialog box with 'USB' selected. The device is identified as 'MS-4 0503213'. Below the device name, it says 'No USB device was found. Please check the connections and make sure the reader is setup for USB.' A 'Search for USB Devices' button is highlighted. A 'Connect' button is at the bottom.

Your reader is identified in this field once a USB connection has been established.

If you connect a USB device after EZ Trax is already running, click **Search for USB Devices.**

For Ethernet:

The screenshot shows the 'Communications' dialog box with 'Ethernet' selected. The 'IP Address' is '127.0.0.1', 'Primary TCP Port' is '2001', and 'Video TCP Port' is '2002'. A 'Connect' button is at the bottom.

If your reader has been assigned an IP address, enter it in the **IP Address** text field.

Use the arrows to identify your **Primary TCP Port** and **Video TCP Port.**

Step 6 — Connect to EZ Trax

Once you have selected your communications protocol and set connection parameters, click the **Connect** button at the bottom of the Communications dialog.

Connect

After you achieve a successful connection, you will see the green **CONNECTED** indicator on the EZ Trax status bar at the bottom right of the screen.

Quadrus MINI **CONNECTED**

Step 7 — Select File Type and Image Output Mode

File Type

JPEG

TIFF

JPEG Quality

Low

Medium

High

Image Output Mode

Good Read

Noread

Both

Mismatch

Choose between higher-resolution (TIFF or BMP) or lower-resolution (JPEG) image files. If your image output is in JPEG format, you have the additional options of Low, Medium, or High resolution.

Note: If you are connected to EZ Trax with a Quadrus EZ reader or Quadrus Verifier, the higher-resolution file format is BMP instead of TIFF.

You can set EZ Trax to output image captures in your chosen file type in response to various read cycle results: Good Read, Noread, Both Good Read and Noread, or Mismatch (when a decoded symbol doesn't match a predetermined master symbol).

Step 8 — Set File Storage Parameters

File Storage

Browse

Location:
C:\Captures\EZ Trax

Allocated Memory:
150 MB

Storage Capacity Warning
75% 0.00% Full

Enable First In/First Out

Before you begin capturing and storing images, select a location on your host computer or network where EZ Trax can store the image captures.

Use the arrows next to the **Allocated Memory** field to determine the total storage capacity that EZ Trax will be able to use for captured images.

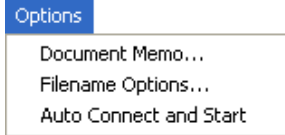
If you enable the **Storage Capacity Warning** option, you can choose the specific percentage of allocated memory that will be filled before EZ Trax sends you a warning message. This example shows a condition in which EZ Trax will send a warning when the storage location has reached **75%** of its predetermined **150 MB** memory capacity.

If you enable **First In/First Out**, EZ Trax will begin overwriting the image storage location when it becomes full, starting with the first image that was captured.

Set File Storage Parameters (continued)

Options Menu

The **Options** dropdown menu allows you to create a **Document Memo**, set **Filename Options**, and configure the software to **Auto Connect and Start** when you open and run EZ Trax.

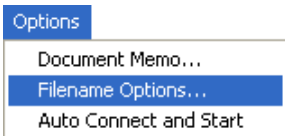


Document Memo

Any information you type in the **Document Memo** field will be shown whenever you click on **Document Memo** in the **Options** dropdown menu.

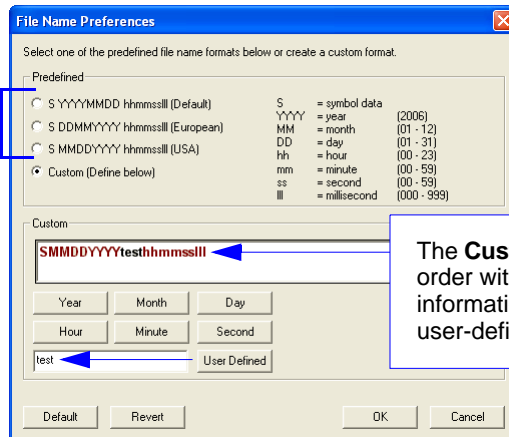


Filename Options



Select **Filename Options** to access the view shown below.

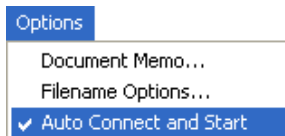
The **Predefined** options allow you to choose between three different preset time stamp formats. Time stamps are appended to symbol data, and the entire string is used as the name of the image file.



The **Custom** field lets you arrange time stamp data in any order within the file name. You can also add user-defined information, or choose to create file names entirely of user-defined data, without time stamp information.

Auto Connect and Start

If EZ Trax is opened from a **.ezt** file and the **Auto Connect Start** option is checked on the **Options** dropdown menu, EZ Trax will connect to the reader and start the capture and storage process immediately. This allows the user to insert the saved **.ezt** file into the Startup folder, so that when the system re-starts, EZ Trax will run automatically, connect, and receive images from the reader.

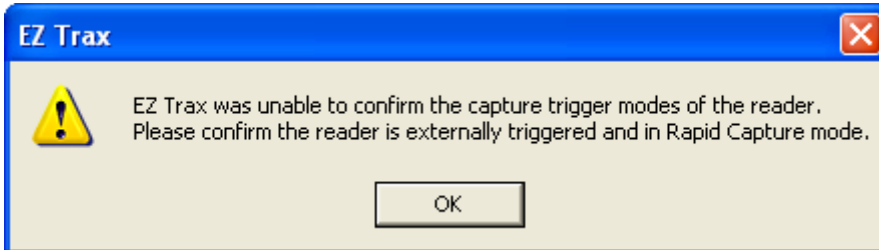


Step 9 — Begin Capturing and Storing Images

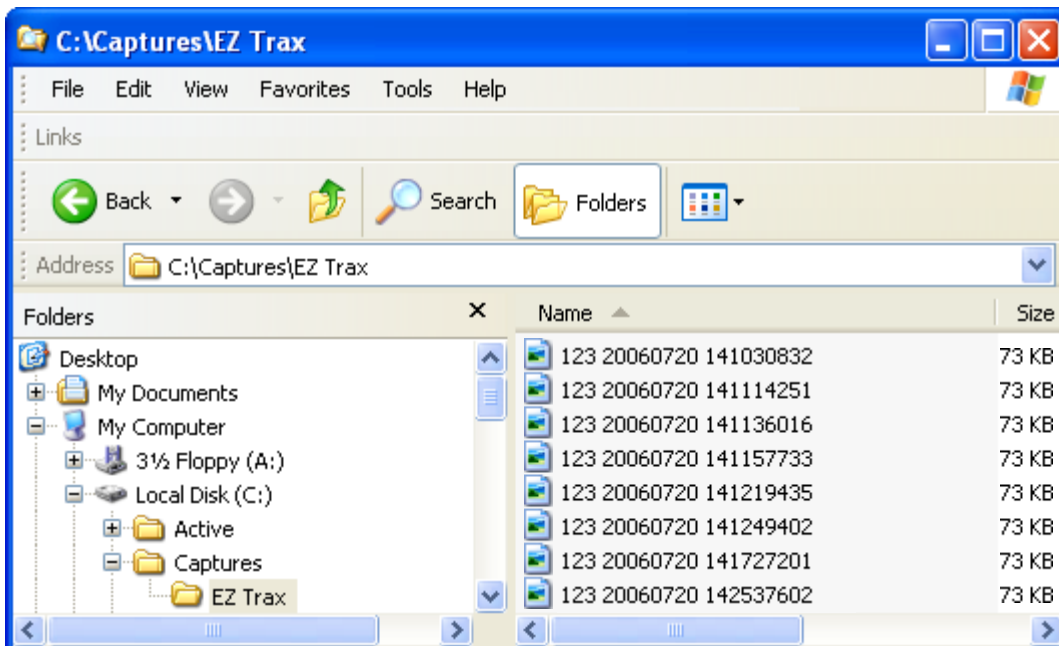
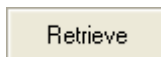
After all parameters have been configured, you will be able to start capturing and storing images. To begin, click the **Capture** button, which is located below the **File Storage** dialog.



Important: If your reader is not set to **External Edge** triggering mode and **Rapid Capture** mode when you click **Capture**, the following message will appear:



You can open your pre-selected file storage location at any time by clicking the **Retrieve** button, located to the right of the **Capture** button.



Note: If you have not already chosen a storage location, EZ Trax will automatically open the "My Pictures" folder on the host computer when you click the **Retrieve** button.

Hardware Configuration for Aux Port Operation

If you will be using the Aux Port in tandem with the host port, you will need to include a modem cable in your hardware configuration. The following illustration shows the correct cabling for Aux Port operation.

