

## EasyMatch QC: How to Data Send to IP Address

**FAQ:** “Do you remember the Export feature that we discussed weeks ago? We'd like for the setup to be implemented.

**Scenario:** Remote PC needs to be able to pull info from PC that has the color meter directly connected via USB.

**Also, we want to link the Software to a SQL Database. Definitely will need your guidance with this.”**

Please make sure your version of EasyMatch QC (go to Help/About to check) is 4.87 or higher. If not, please contact HunterLab at [support@hunterlab.com](mailto:support@hunterlab.com) .

The feature “Options/Data Send” to an Ethernet location is similar to sending data using COM port.

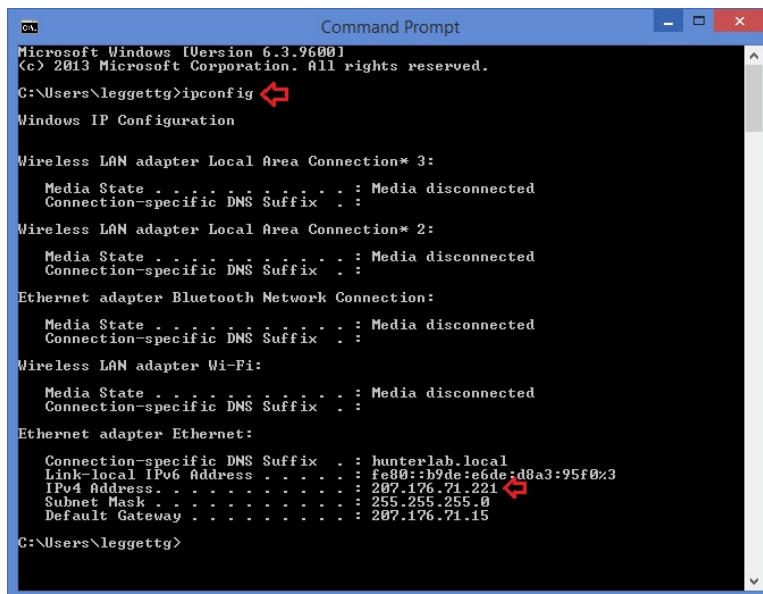
There are two computers – a Sensor PC connected to the HunterLab instrument and a Remote PC to collect the data record send, both of which are connected to the internet.

### Remote PC Setup

This option requires a socket server application running in a Remote PC system to collect data sent by EasyMatch QC application through the Data Send to IP address feature.

On the Remote PC, first run the Command Prompt and type ‘Ipconfig’ to determine the IP address of the Remote PC that will receive the data in a ###.###.##.### format. Make a note of this IP address.

You will also need a Port number which is any port > 10000 not shared by another application. As an example, the Port number “12345” meets that requirement.



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Microsoft Windows [Version 6.3.9600]
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C:\Users\leggetty>ipconfig

Windows IP Configuration

Wireless LAN adapter Local Area Connection* 3:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 2:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Ethernet adapter Bluetooth Network Connection:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : hunterlab.local
    Link-local IPv6 Address . . . . . : fe80::b9de:e6de:d8a3:95f0%3
    IPv4 Address. . . . . : 207.176.71.221
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 207.176.71.15

C:\Users\leggetty>
  
```

Download the enclosed executable “SockServer.ex\_” (After downloading, please rename the file extension as “exe”) which can be used as socket server running in a networked system.

1. Run the Sockserver.exe and enter the IP address (###.###.##.###) and the Port number (12345) to which the socket server is to bind and click “Start” button. An error will be prompted if the socket server program does not start successfully

2. After successful starting of SockServer.exe, In EasyMatchQC ->Options->DataSend->SendData, choose Location radio box and enter either the IP address or Host name and Port number of socket server. Click OK to send selected standards/Samples as per the Data Send Configuration.
3. The data records sent will be collected and displayed in the SockServer's data window. If required, this collected data can be copied to clipboard for further use.

### Setup for Sensor PC connected to HunterLab sensor

Start EasyMatch QC and standardize the sensor successfully so that it is ready for color measurement.

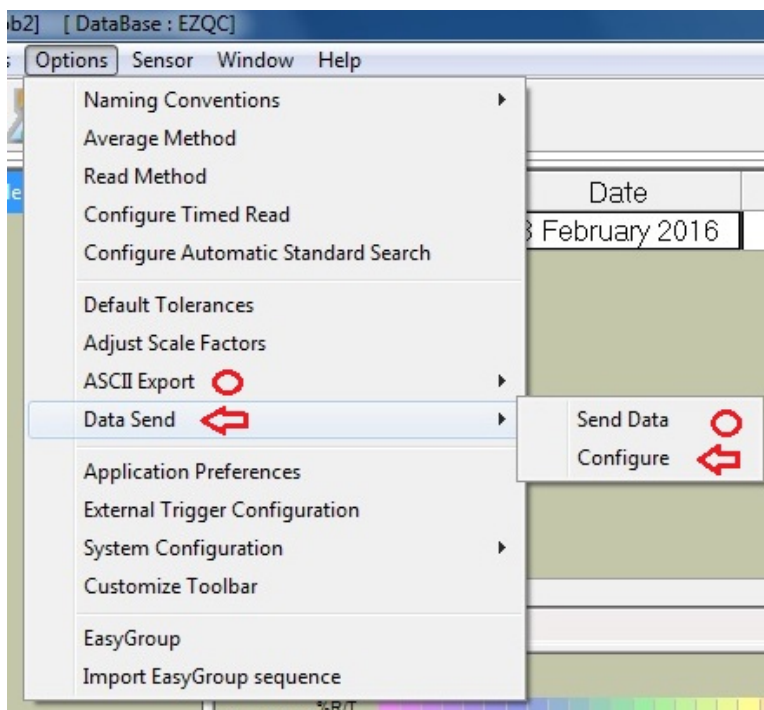
To configure the Data Send feature in EasyMatch QC, go to Options/Data Send.

ASCII Export uses a similar process as Data Send but sends the data record to a file.

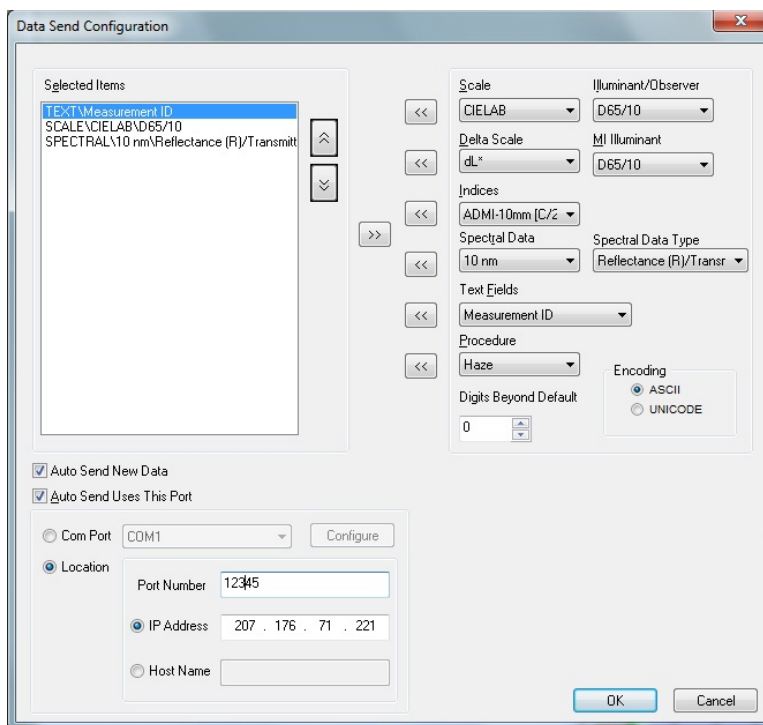
Data Send sends the data record to a COM port on the Sensor PC or to the IP address of the Remote PC.

Selecting Data Send/Send Data allows the User to manually send a number of data records manually after selecting them as a group in the Job Tree of the current active Job.

The format of the data record is set by Data Send/Configure.



## Data Send Configuration to Defined Data Record



Select the color values on the right that you want to send using the double left arrows and adjust the order of the information you want sent.

Typically the record would be sent as ASCII character encoding for European languages and UNICODE if sending graphic languages such as Japanese or Chinese. The record will be sent using TCP/IP protocol.

Select Auto Send New Data to send data records from this point forward. If you want to turn off the Data Send feature temporarily, you can uncheck this box in the future leaving everything else configured for a fast re-start.

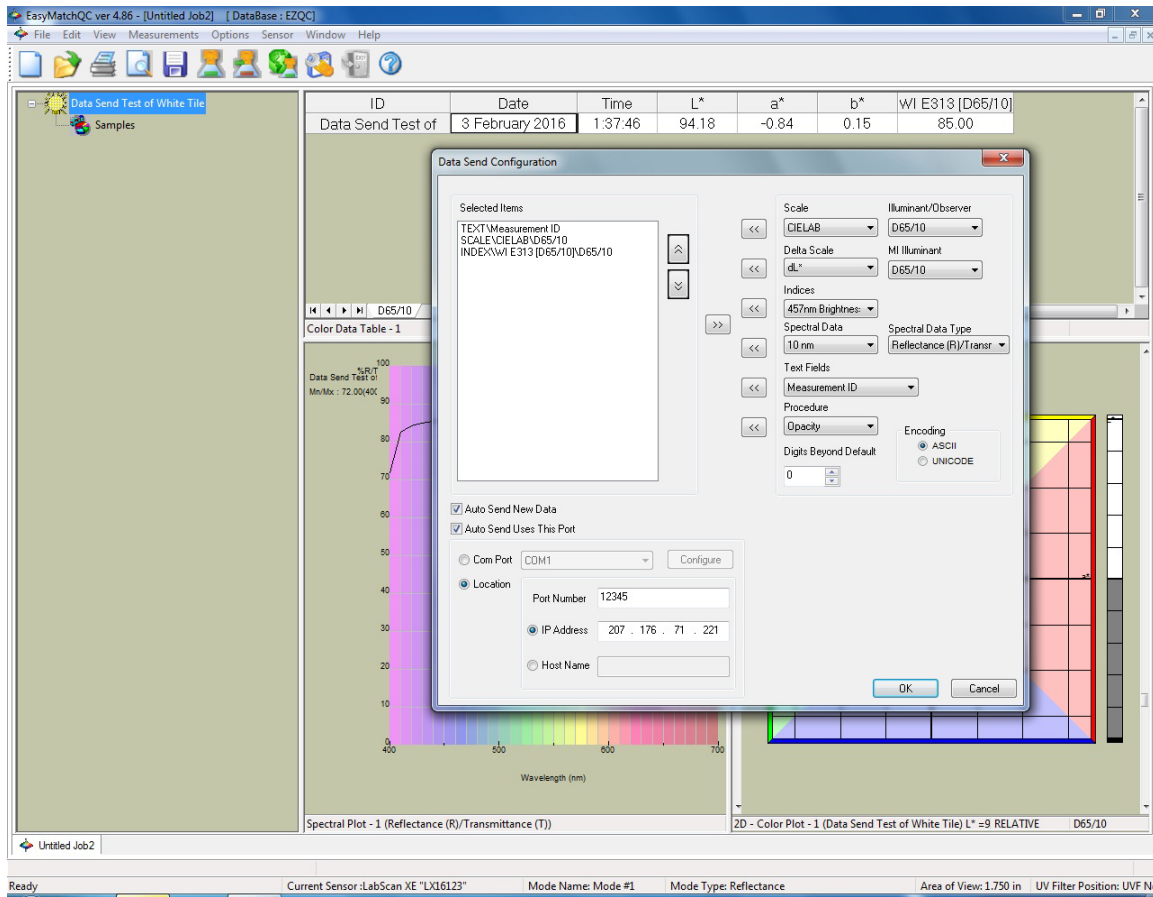
Select “Auto Send uses this Port” and select “Location” to send it to the IP internet address of a Remote PC.

Enter the Port Number and IP address of the Remote PC where the data records will be sent to. Alternatively, if you know the Host Name of the Remote PC, you can enter that and the IP address of the computer will be filled in.

You are now set up to automatically send a data record to the IP address of the Remote PC every time you make a color measurement on this sensor.

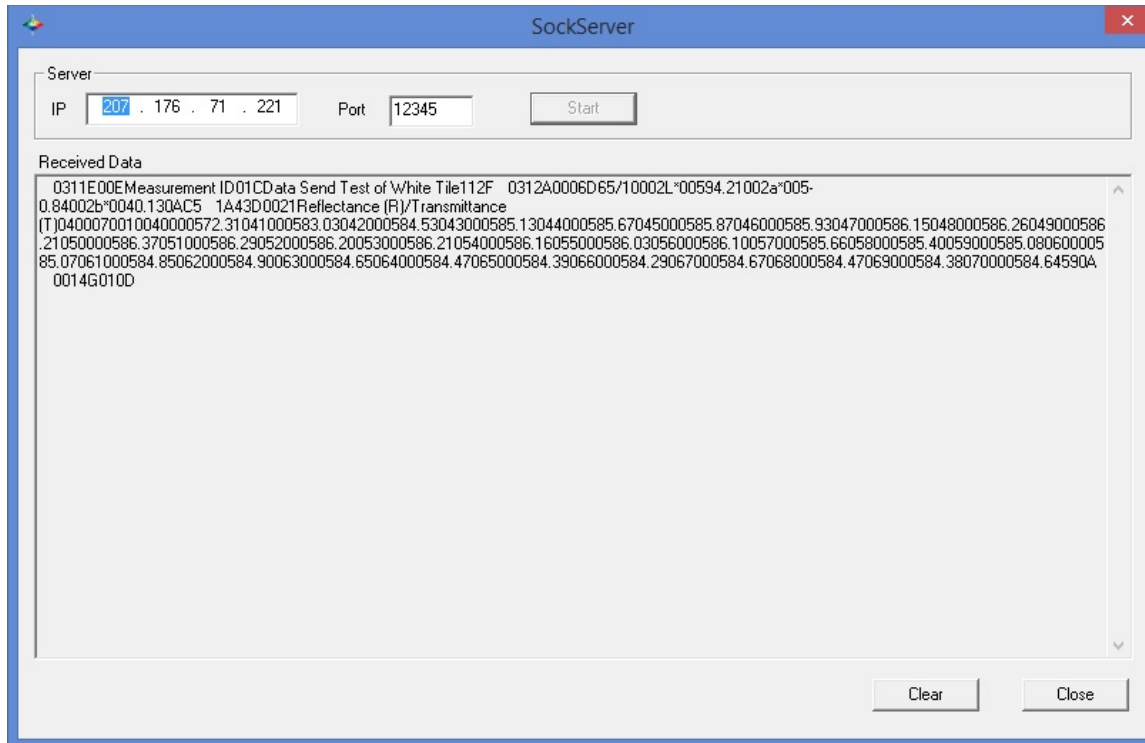
### Test Case

Place a white tile at the measurement port of the HunterLab Sensor and read it as a standard or sample.



Take a look at the display window of the Socketserver program to verify that the record data received by the Remote PC matches what was sent.

Take several more readings of the white tile to verify that each data record is automatically sent when measured.



The display window of the Socketserver program will allow the User to see what is being sent automatically to the IP address and Port location on the Remote Computer. By comparing the EZMQC display to the Socket display of the data record, you can configure your own data collector application on your Sequel Server or LIMs system to the same IP address and Port, collect the disdata record and parse out the strings and values you want to collect in your central database.