

CUBISCAN[®] QBIT-XFER

USER GUIDE

Version 1.1

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CubiScan Qbit-Xfer User Guide

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CubiScan[®] 110 measurement products are protected by one or more of U.S. Patent Re42,430 and foreign patents.

CubiScan[®] 125 measurement products are the subject of U.S. Patent 8,928,896. Another U.S. patent is pending.

CubiScan[®] 225 measurement products are protected by one or more U.S. patents, refer to U.S. Patent 9435637.

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What's New in Version 1.1?

Updated Sections

- New data transfer options, see “Data Transfer Options” on page 9
- New orientation tab, see “Orientation” on page 16
- New Endicia PC Port # field, see “Endicia PC Port #” on page 10

This document was created with the purpose of providing the most accurate and complete information. If you have comments or suggestions for improving this manual, contact Quantronix at manual@cubiscan.com.

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Chapter 1

Getting Started

This chapter provides instructions for starting and exiting Qbit-Xfer™ and describes the different areas and the functions performed at the main window.

Starting/Exiting Qbit-Xfer



Do one of the following to start Qbit-Xfer:

- Click **[Start]**, select **Programs**, click **CubiScan**, then click **Qbit-Xfer**.
- Double-click the Qbit-Xfer desktop icon.

The main window is displayed (see next page).

Do one of the following to exit Qbit-Xfer:

- Pull down the Application menu, and click **Exit**.
- Click the Close button (**[X]**) located in the upper right corner of the main window.

Menu Bar

The menus at the top of the main window contain functions used to perform tasks and set up Qbit-Xfer. Click a menu name and the menu drops down from the menu bar. Click a function on the menu to select it.

Application Menu

Following are the functions available on the Application menu.

- Data Test** Selecting this function causes Qbit-Xfer to create random data that can be used for testing purposes.
- Exit** Select this function to exit Qbit-Xfer.

Tools Menu

Following are the functions available on the Tools menu. The Zero, Status, Test Mode, Values, and Calibrate functions may not be available depending on whether or not the functions are available on the selected CubiScan model.

- Zero** Use this function to “zero” the CubiScan. Refer to [“Zero” on page 33](#). This function is not available when the CubiScan 50, 75, 200B, 200TS, 210, or 225 is selected.
- Status** Use this function to verify that the CubiScan is operating properly. Refer to [“Status” on page 34](#). This function is not available when the CubiScan 30, 50, 75, 200B, 200TS, 210, or 225 is selected.
- Test Mode** Use this function to set up the CubiScan for testing purposes. Refer to [“Test Mode” on page 35](#).
- Values** Use this function to display a table of sensor values that can be useful for troubleshooting the CubiScan. Refer to [“Values” on page 36](#). This function is not available when the CubiScan 50, 75, 200B, 200TS, 210, or 225 is selected.
- Calibrate** Use this function to calibrate the scale and/or sensors. Refer to [“Calibrate” on page 36](#). This function is not available when the CubiScan 50, 200B, 200TS, 210, or 225 is selected.
- Options** Use this function to configure Qbit-Xfer. Refer to [Chapter 2 “Configuration” on page 6](#) for more details.

CubiScan75 Menu

The CubiScan75 menu only appears when the CubiScan 75 model is selected. Following are the functions available on the CubiScan75 menu.

- Switch Platform Trigger ON** Use this function to turn the platform trigger on. For more information on the platform trigger, see [“Switch Platform Trigger ON/OFF” on page 40](#).
- Switch Platform Trigger OFF** Use this function to turn the platform trigger off. For more information on the platform trigger, see [“Switch Platform Trigger ON/OFF” on page 40](#).

Capture Image	Use this function to capture an image. The image will be captured from the current live view mode. For more information on images, see “ Capture Image ” on page 41.
Enable Live View Mode on CubiScan Screen	Use this function to enable the live view mode. For more information, see “ CubiScan 75 Display ” on page 41.
Disable Live View on CubiScan Screen	Use this function to disable the live view and display the default depth map screen. For more information, see “ CubiScan 75 Display ” on page 41.
Enable “Pop Up” View Mode on CubiScan Screen	Use this function to enable the pop-up window. For more information, see “ CubiScan 75 Display ” on page 41.
Disable “Pop Up” View Mode on CubiScan Screen	Use this function to disable the pop-up window. For more information, see “ CubiScan 75 Display ” on page 41.
Switch CubiScan Dim Unit to Imperial	Use this function to switch the dim units to imperial. For more information, see “ CubiScan 75 Units ” on page 43.
Switch CubiScan Dim Unit to Metric	Use this function to switch the dim units to metric. For more information, see “ CubiScan 75 Units ” on page 43.
Switch CubiScan Dim Wgt to Imperial	Use this function to switch the dim weight measurement unit to imperial. For more information, see “ CubiScan 75 Units ” on page 43.
Switch CubiScan Dim Wgt to Metric	Use this function to switch the dim weight measurement unit to metric. For more information, see “ CubiScan 75 Units ” on page 43.
Switch CubiScan Factor to Domestic	Use this function to switch the dim weight factor to domestic. For more information, see “ CubiScan 75 Units ” on page 43.
Switch CubiScan Factor to International	Use this function to switch the dim weight factor to international. For more information, see “ CubiScan 75 Units ” on page 43.

Log Menu

Following are the functions available on the Log menu.

- View** Select this function to view the log. This log displays errors, feedback, and information messages.
- Save** Select this function to save the log. This log displays errors, feedback, and information messages.

Help Menu

Following are the functions available on the Help menu.

- About** Select this function to display the current version and build of Qbit-Xfer and information about Quantronix, Inc.

Main Window

When Qbit-Xfer starts, the main window is displayed.

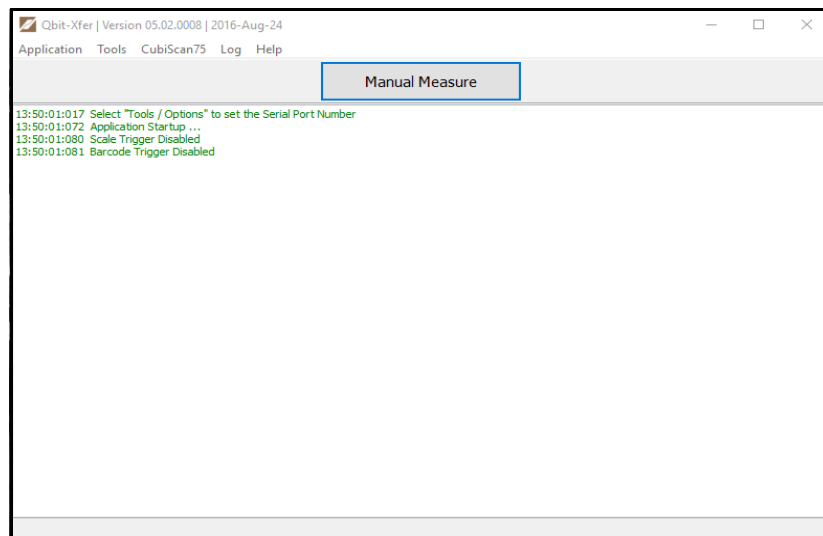
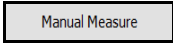


Figure 1
Main Window

The main window contains the menu bar, the **Manual Measure** button, as well as the message window. Refer to the following sections for more information.

The tab options available under Tools > Options are the CubiScan tab, Data Transfer tab, Password tab, Factors tab, Orientation tab, Login tab, Weight Trigger tab, and the Barcode Trigger tab. For more information on the tabs available in Qbit-Xfer, see [Chapter 2 “Configuration” on page 6](#).

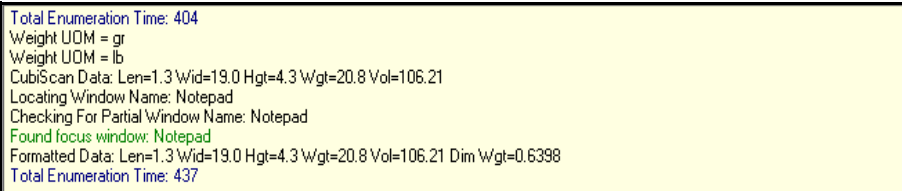
Manual Measure

A rectangular button with a thin black border and the text "Manual Measure" centered inside.

Click this button to take a measurement using your selected CubiScan. For more information on taking measurements, see [Chapter 3 “Measuring Objects”](#) on page 25.

Message Window

The message window reports any CubiScan activity and gives the status of any activity. This window also reports focus window information, error messages, as well as data that is collected.

A screenshot of a message window with a yellow background and a black border. It contains the following text:

```
Total Enumeration Time: 404
Weight UOM = gr
Weight UOM = lb
CubiScan Data: Len=1.3 Wid=19.0 Hgt=4.3 Wgt=20.8 Vol=106.21
Locating Window Name: Notepad
Checking For Partial Window Name: Notepad
Found focus window: Notepad
Formatted Data: Len=1.3 Wid=19.0 Hgt=4.3 Wgt=20.8 Vol=106.21 Dim Wgt=0.6398
Total Enumeration Time: 437
```

Figure 2
Message Window

Chapter 2

Configuration

This chapter provides information and instructions to configure and set up defaults for Qbit-Xfer using the Tools > Options function. The following tabs contain the configuration options:

- “CubiScan” on page 7
Setup the measurement and dimensional weight units, select the CubiScan communications port, and select your CubiScan model.
- “Data Transfer” on page 8
Setup data transfer and data format options.
- “Password” on page 12
Setup password security for selected functions.
- “Factors” on page 15
Enter the values used for dimensional weight factors.
- “Orientation” on page 16
Setup the orientation settings of measurements.
- “Login” on page 17
Setup user ID options and settings.
- “Weight Trigger” on page 19
Setup your weight trigger mode and configure a 3rd party scale.
- “Barcode Trigger” on page 23
Setup your barcode trigger mode and patterns.

CubiScan

Click the CubiScan tab to set up measurement and dimensional weight units, select the CubiScan communications port, and select your CubiScan model.

Figure 3
CubiScan Tab

Unit of Measure Options

- Dimension Units** Select the measurement units you want used to measure length, width, and height dimensions: **Inches**, **Millimeters**, or **Centimeters**.
- Weight Units** Select the units you want used for package weights: **Ounces**, **Pounds**, **Grams**, or **Kilograms**.
- Volume Units** Select the units you want used to measure volume: **Cubic Inches**, **Cubic Feet**, **Cubic Millimeters**, **Cubic Centimeters**, **Cubic Decimeters**, or **Cubic Meters**.
- Dimensional Weight Units** Select whether you want to use **Domestic** or **International** dimensional weight units. Refer to “**Factors**” on page 15 for information on setting up dimensional weight units.

CubiScan Options

CubiScan Model Select the model of CubiScan you are using. Options in some tabs may vary depending on the CubiScan model selected.

The “**T**” **Model** is the touchscreen model for the CubiScan 100, 110, and 150. If you have the touchscreen model for one of these CubiScans, enable this field when selecting your model. If you select one of these models, a new USB port option appears under the communications ports section.

If you select the CubiScan 30 with serial numbers starting with 9 or 20 to 24, you are prompted to enter the CubiScan serial number. Enter the serial number and click **[OK]** to close the prompt and continue.

If you select the CubiScan 75, an **Auto Capture CubiScan Image** check box appears. Select this option if you want the CubiScan 75 to automatically capture a .jpg image each time a measurement is taken. The image is a still of the current live view mode. For more information on the live view mode, see “**CubiScan 75 Display**” on page 41. The image is saved in the Images folder located in the installation root folder.

Communication Ports Select which method you will use to connect your CubiScan to a computer. The options are: **RS232 Serial Port**, **Network Port**, or **USB Port** (if you are using a “T” model). If you are using the serial port, enter the **PC Port #**. If you are using the network port, enter the **IP Address** and **IP Port**.

If the CubiScan 100, 110, 125, 150, 25, or 75 is selected, a **Send Network “Heartbeat”** check box and **Interval** field appears. This option sends a “heartbeat” signal to the CubiScan to keep the connection open. The interval field determines how often a signal is sent. The CubiScan 75 is the only CubiScan that requires a heartbeat.

Data Transfer

Click the Data Transfer tab to select data transfer and data format options.

Data Transfer Mode

From this tab you can select your data transfer option and universal settings.

Figure 4
Data Transfer Mode Tab

Data Transfer Options

Select your preferred data transfer option. The options available are: **Keyboard Wedge/Cursor Location**, **UPS WorldShip®**, **FedEx Ship Manager®**, **Computerized Parcel Software (CPS™)**, **Dazzle Professional Design Print/Quick Label (Endicia®)**, **Endicia® Order Lookup Screen**, **Endicia® PC Postage Screen**. For more information on using these functions, see [Chapter 3 “Measuring Objects” on page 25](#).

Universal Settings

Initial Cursor Movement In this field you can enter the number of cursor movements that occur before data is transferred. The type of cursor movement corresponds to the selection made in the Cursor Movement Type box.

Cursor Movement Time Delay In this field you can enter the time delay for cursor movement.

Intra-Keystroke Time Delay	In this field you can enter the intra-keystroke time delay. If dimension data values are missing after they have been transferred, the intra-keystroke time delay should be slowed down.
Numeric Decimal Separator	In this field you can enter your preferred decimal separator.
Target Window Name	In this field you can enter the target window name in which the Qbit-Xfer data will be transferred. This field must match the title of the application that data is being transferred to.
Endicia PC Port #	This field can be used to define a serial port for a serial loop back to simulate weight coming from a bench scale. Enter the port number that is being used to loop back into the computer (using a serial connection). The Endicia scale selection must be the Weigh-Tronix/NCI 76xx compatible 9600 baud model. The weight is actually being pulled from the CubiScan and when the weight request comes from Endicia, Qbit-Xfer will send a data packet matching the Weigh-Tronix/NCI 76xx compatible 9600 baud model (Even, 7, 1) found in the scale selection drop-down list. If the Weight Captured from Host Application Scale option is enabled then the weight will come automatically from the attached bench scale (because there is no weight field on the software screen). This field is only available when the Dazzle Professional Design Print/Quick Label (Endicia®) or Endicia® Order Lookup Screen data transfer option is selected.
Cursor Movement Type	In the cursor movement type box you can select the cursor movement type. The cursor movement type applies to the Initial Cursor Movement field as well as all of the Subsequent Cursor Movement fields. The options available are: None , Tab , and Enter .
Show "Measuring" Message Window	Enabling this box displays the measuring window (shown below) any time a measure request is sent from Qbit-Xfer to a CubiScan (and the Show "Measuring" Message Window box is enabled).

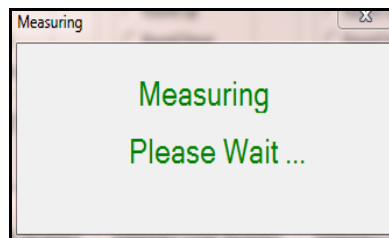


Figure 5
Measuring Window

Close Qbit-Xfer After Each Measurement	Enable this box if you want Qbit-Xfer to close each time it takes a measurement. For more information on using this feature with the command line parameter method, see "Command Line Parameter" on page 30 .
---	---

- Send <Enter> Key After Final Cursor Movement** Enable this box if you want Qbit-Xfer to automatically send an ENTER keystroke after a measurement is taken.
- Weight Captured from Host Application Scale** This option is not visible if you selected the Keyboard Wedge/Cursor Location as your data transfer option. Enable this box if the scale you are using is connected directly to the host application you are using.
- Send Valid Data on CubiScan Measuring Errors** This option is not visible if you selected the Keyboard Wedge/Cursor Location as your data transfer option. Enable this box if you want any valid data sent to your target window even if errors are encountered in the CubiScan measuring process.

Data Transfer Format

Click the Format tab to set up data transfer format options.

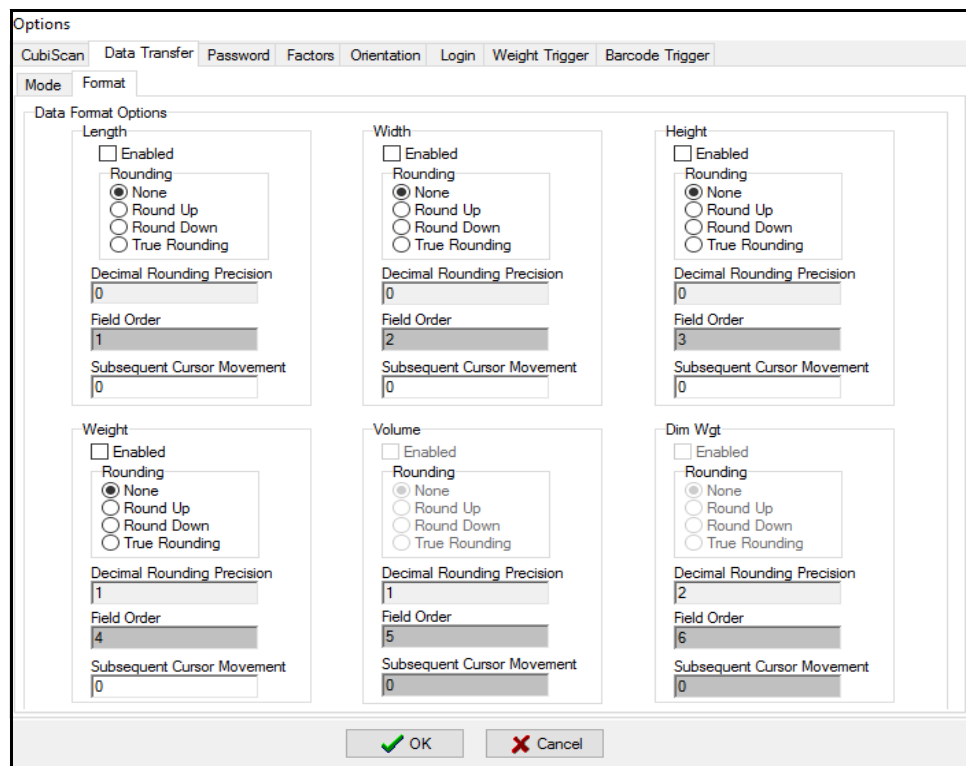


Figure 6
Data Transfer Format Tab

Data Format Options

The data format options determine how data is reported and transferred to your preferred location. The data format options are divided into categories

of **Length, Width, Height, Weight, Volume, and Dim Wgt.** Some options are not available depending on your selected data transfer option.

Enabled	Enabling this field means that the selected data will be transferred to your target window. If this field is disabled, the corresponding data will not be transferred to your target window.
Rounding	This option can be used to change how dimensions are rounded. The options available are: None, Round Up, Round Down, and True Rounding.
Decimal Rounding Precision	In this field you can select how many places will follow a decimal. Simply enter the number of places you would like to follow the decimal point.
Field Order	In this field you can enter the order in which the data information will be transferred.
Subsequent Cursor Movement	In this field you can enter the number of times there will be a cursor movement after data is transferred. The type of cursor movement can be chosen in the Cursor Movement Type box under the Mode tab.

Password

To provide security for specified functions in Qbit-Xfer, you can set up a password. Once a password is set up, the selected functions are disabled in the menus and only become available when the password is entered. The

Options function is always included when password protection is enabled for any function.

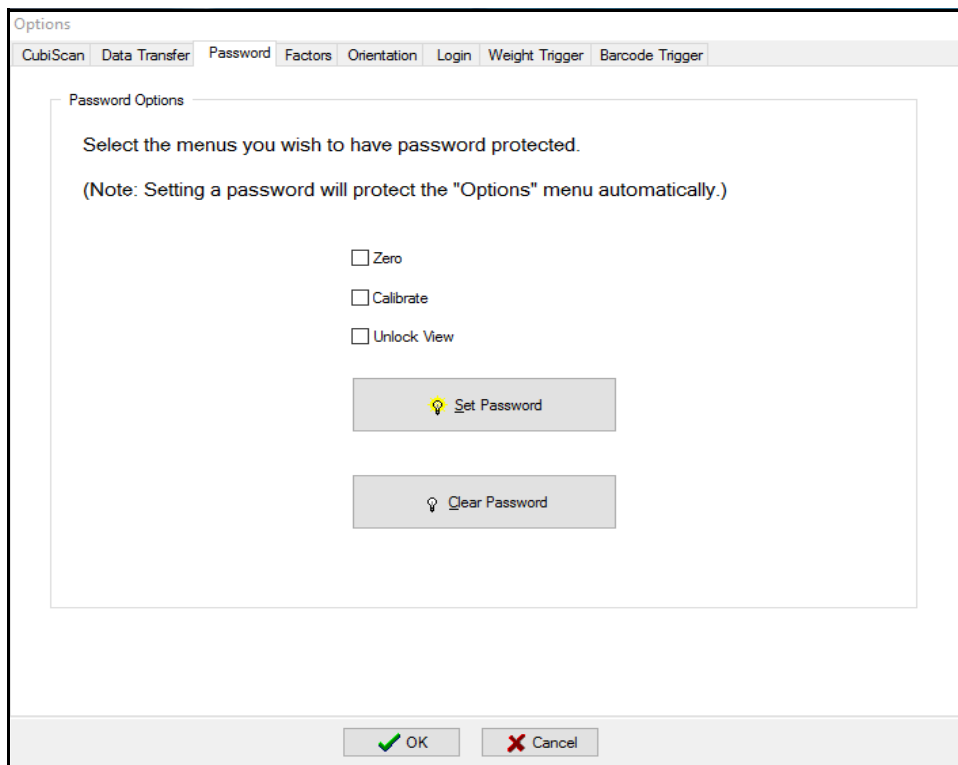


Figure 7
Password Tab

Password Options

Select the functions for which a password will be required.

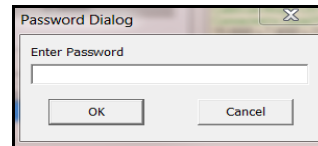
Set Password Click this button to set up or change the password. The following dialog box is displayed.



In the **Enter Password** box, type your password. In the **Re-Enter Password** box, type it again for verification. The password is case sensitive; if you

enter upper or lower case characters, they must be entered in the same case when entering the password. Click **[OK]** to accept the password.

When you attempt to access a menu that has been password protected, the following prompt appears.



Enter the password exactly as it was entered when set up (case sensitive), and click **[OK]** to open the menu.

Clear Password Click **[Clear Password]** to remove an existing password. This allows access to all functions by all users. The message: “Password has been cleared” is displayed. This means that a password is no longer required to use any functions in Qbit-Xfer. Click **[OK]**.

Factors

Click the **Factors** tab to enter or edit the domestic and international dimensional weight factors. A dimensional weight is calculated for each measurement (both domestic and international).

The screenshot shows a software window titled 'Options' with several tabs: CubiScan, Data Transfer, Password, **Factors**, Orientation, Login, Weight Trigger, and Barcode Trigger. The 'Factors' tab is active, displaying a section titled 'Dimensional Weight Factors'. This section contains a table with two columns: 'DOMESTIC' and 'INTERNATIONAL'. Each column has four text input fields corresponding to different units: 'Cubic Inches per Pound', 'Cubic Inches per Klogram', 'Cubic Centimeters per Pound', and 'Cubic Centimeters per Klogram'. The values in the input fields are: Domestic (166, 366, 2720, 6000) and International (139, 306, 2278, 5000). Below the table is a 'NOTE' explaining the formula: 'Dimensional Weight = Length * Width * Height / Factor'. It also states that this equation is used to compute a dimensional weight (a density calculation based on an item volume.) and that freight carriers often compare the dimensional weight to actual weight when applying shipping charges. At the bottom of the dialog box, there are three buttons: 'Defaults', 'OK', and 'Cancel'.

	DOMESTIC	INTERNATIONAL
Cubic Inches per Pound	166	139
Cubic Inches per Klogram	366	306
Cubic Centimeters per Pound	2720	2278
Cubic Centimeters per Klogram	6000	5000

NOTE: Dimensional Weight = Length * Width * Height / Factor

This equation is used to compute a dimensional weight (a density calculation based on an item volume.)

Freight carriers often compare the dimensional weight to actual weight when applying shipping charges.

Defaults

OK Cancel

Figure 8
Factors Tab

Dimensional Weight Factors

An item's dimensional weight is its density based on volume and is calculated using the following equations:

$$\text{Dimensional Weight} = \text{Length} * \text{Width} * \text{Height} / \text{Factor}$$

Defaults Click **[Defaults]** to use the default values provided by Quantronix. Or, click in each text box and enter your own values for each factor.

Orientation

From this tab you can select the orientation settings of the CubiScan's measurements.

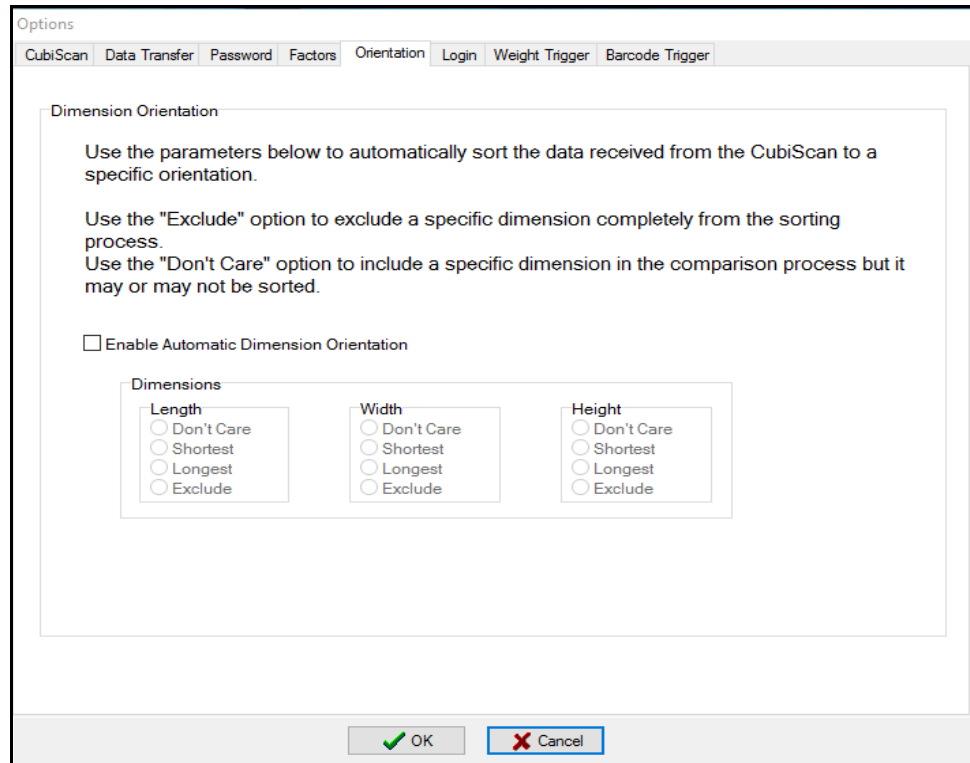


Figure 9
Orientation Tab

Dimension Orientation

In this field you can enable automatic dimension orientation, select dimensions that should be excluded from the automatic option, and select dimension settings. The orientation tab settings occur when you click the **Measure** button.

Enable Automatic Dimension Orientation

Enabling this field allows you to select the dimension orientation settings that you prefer. The message window will notify you of the automatic dimension orientation that took place.

Length, Width, and Height Dimensions

Choose the value you would like associated with the CubiScan measurements (length, width, and height). The values are **Don't Care**, **Shortest**, **Longest**, and **Exclude**. You can only have one value selected as **Exclude** at a time.

The **Exclude** value will exclude a measurement from the sort completely.

The **Don't Care** option will include a dimension in the comparison process, but it will not be sorted.

Login

From this tab you can create and manage user ID accounts.

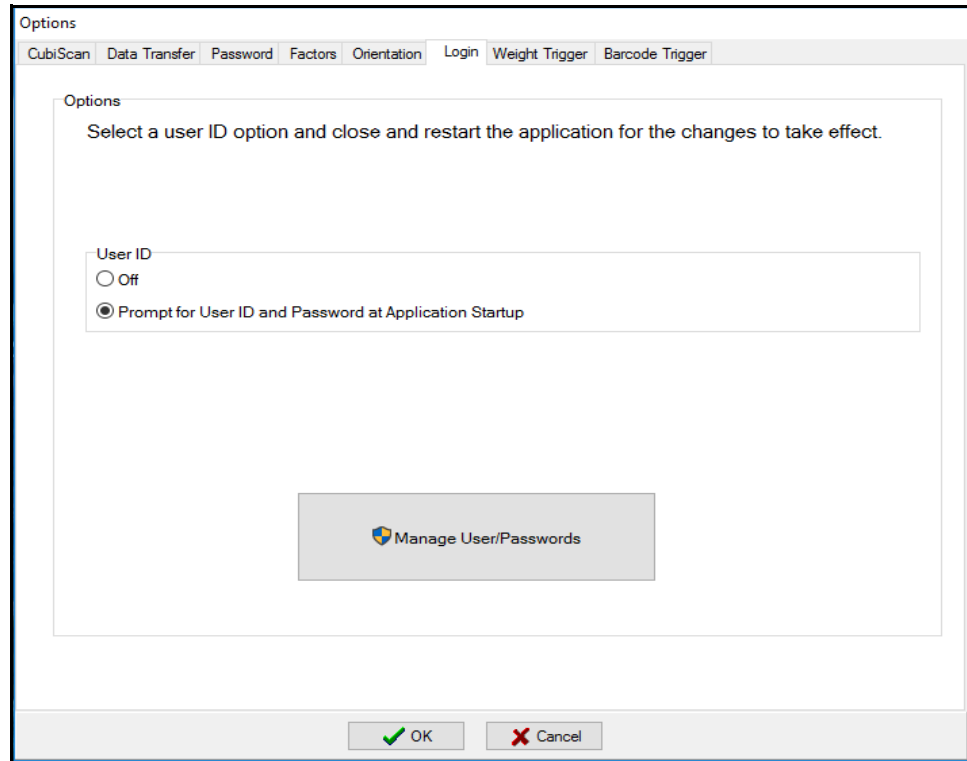


Figure 10
Login Tab

Options

Select User ID options. After making these changes Qbit-Xfer must be closed and restarted for the changes to take effect.

User ID

Select your preferred User ID option from the following options.

- Off** Select this option if you do not want Qbit-Xfer to prompt the user for an ID or password.

Prompt for User ID and Password at Application Startup

Select this option if you want Qbit-Xfer to prompt the user for an ID and password each time Qbit-Xfer starts up. When you select this option a button called **Manage User/Passwords** becomes available.

When this option is selected a new option appears under the Actions menu that allows you to change users. To change a user select Actions > Change User (Ctrl+U) and login using the desired user ID and password.

Click on the **Manage User/Passwords** button to bring up the User/Password Management window that is shown below.

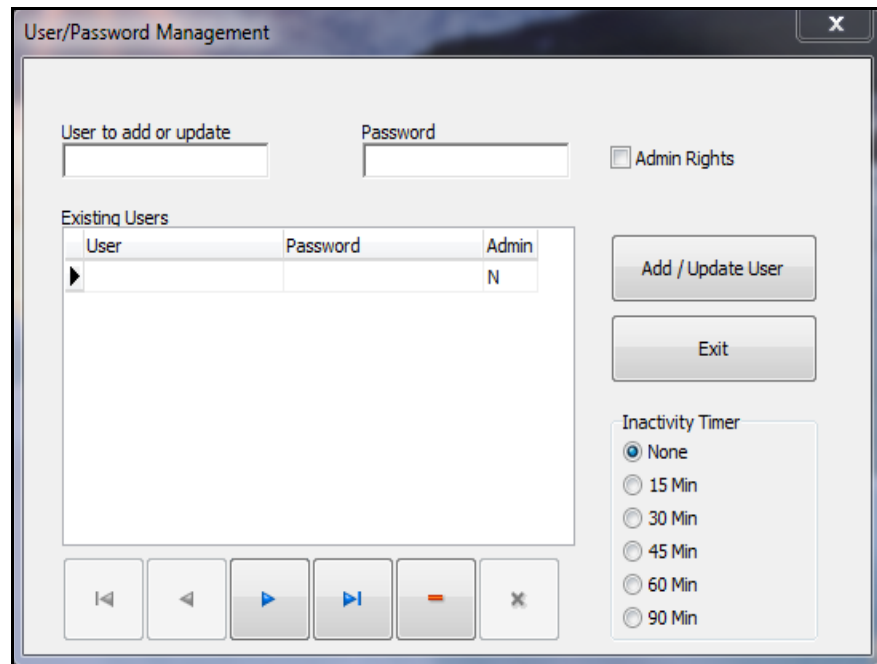


Figure 11
User/Password Management Window

Enter the User ID and password into the appropriate fields. You can select if the user will have administration rights, which allows the user to manage the user accounts. There must be at least one administration account.

The Existing Users box shows all the current records of user IDs, passwords, and administration rights status. Passwords that are shown in this box are encrypted. You can arrow through or delete these records using the arrows found at the bottom of the Existing Users box.

NOTE

Make sure that all records have an associated user ID and password, delete all incomplete records.

The Inactivity Timer box is where you can select how often a user will be prompted to enter their ID and password. The options are **None**, **15 Min**, **30 Min**, **45 Min**, **60 Min**, and **90 Min**. Depending on which option was selected,

the user will need to enter their information again if Qbit-Xfer is left inactive for the selected amount of time.

Use the **Add/Update User** button to add a user ID and password or to update an existing record. When you are finished, click **Exit**.

Weight Trigger

Click the Weight Trigger tab to select your weight trigger mode and configure a 3rd party scale.

Weight Trigger Mode

From this tab you can select your scale trigger option and configure the trigger parameters.

The screenshot shows a software window titled "Options" with several tabs: CubiScan, Data Transfer, Password, Factors, Orientation, Login, Weight Trigger, and Barcode Trigger. The "Weight Trigger" tab is selected. Below the tabs, there is a "Mode" dropdown menu set to "3rd Party Scale". A text box contains the following instructions: "Select an option other than 'None' to enable an automatic measuring trigger when x amount of defined valid weights have been received from CubiScan or 3rd party scale. Note: When using broadcast mode all parameters are ignored with the exception of the 'Measure Delay' parameter." Below this, there are two sections: "Scale Trigger Options" with three radio buttons: "None" (selected), "CubiScan Scale Trigger", and "3rd Party Scale Trigger"; and "Trigger Parameters" with six input fields: "Start Tolerance Value" (0.050), "Allowed Tolerance" (0.1000), "Sample Rate (ms)" (250), "Measure Delay (ms)" (500), "Number of Valid Samples" (4), and "Return to Zero Tolerance" (0.030). At the bottom of the window are "OK" and "Cancel" buttons.

Figure 12
Weight Trigger Mode Tab

Scale Trigger Options

Select your preferred scale trigger option. The scale trigger options are None, CubiScan Trigger, and 3rd Party Scale Trigger.

Trigger Parameters

You can configure the trigger parameters listed below.

Start Tolerance Value	In this field you can enter the required starting weight value.
Sample Rate (ms)	In this field you can enter the time interval (in milliseconds) between weight requests made to the scale.
Number of Valid Samples	In this field you can enter the number of valid, contiguous weight samples needed before triggering a measure event.
Allowed Tolerance	In this field you can enter the tolerance value needed between weight samples to consider them valid or invalid.
Measure Delay (ms)	In this field you can enter the time delay (in milliseconds) between receiving enough valid weight samples and triggering a measure event.
Return to Zero Tolerance	In this field you can enter the required “close to zero” value that the scale must reach before collecting any new weight samples.

3rd Party Scale

From this tab you can select your 3rd party scale parameters. Options in this tab are not editable until you have enabled a 3rd party scale under Scale Trigger Options in the Weight Trigger Mode tab.

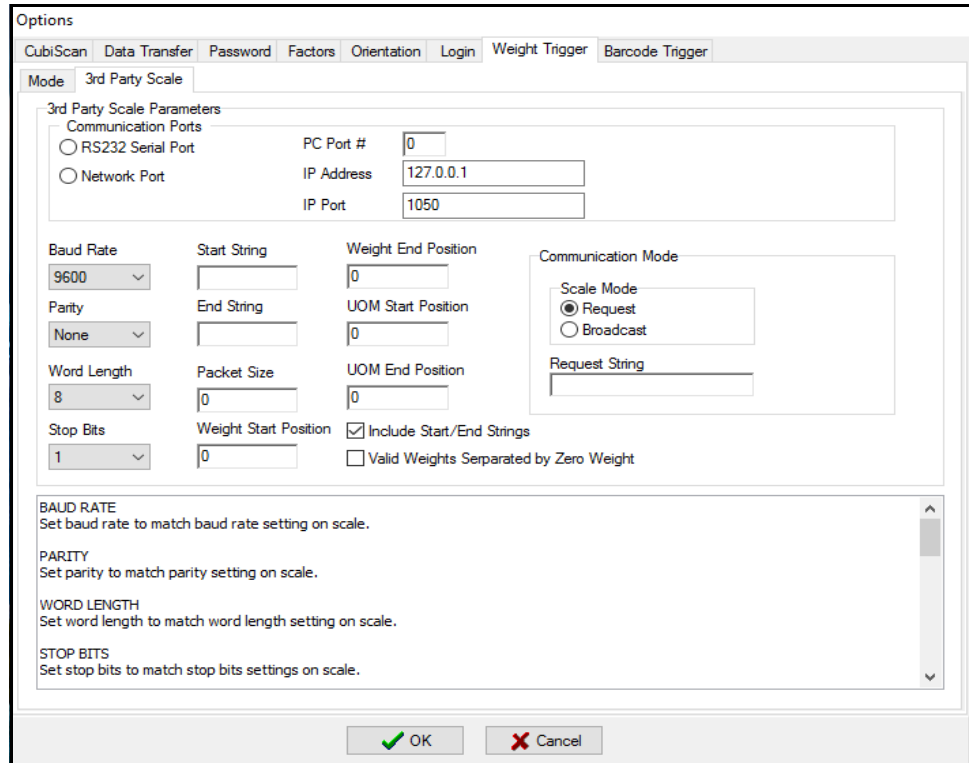


Figure 13
3rd Party Scale Tab

3rd Party Scale Parameters

- Communication Ports** Select which method you will use to connect your scale to a computer. The options are: **RS232 Serial Port**, or **Network Port**. If you are using the serial port, enter the **PC Port #**. If you are using the network port, enter the **IP Address** and **IP Port**.
- Baud Rate** Set the baud rate to match the baud rate setting on the scale.
- Parity** Set the parity to match the parity setting on the scale.
- Word Length** Set the word length to match the word length setting on the scale.
- Stop Bits** Set the stop bits to match the stop bits setting on the scale.
- Start String** Use the # character with a decimal value to set the Start String as a control character. For example #2=STX, #13#10=CRLF.

End String and Packet Size	The complete packet has been received when “Packet Size” characters are received or when “End String” has been received. One or both of these parameters must be set. Setting the “Packet Size” to zero will cause only the “End String” to be used. Use the # character with a decimal value to set the End String as a control character. For example #2=STX, #13#10=CRLF.
Weight Start Position	Set the start position of the weight value.
Weight End Position	Set the end position of the weight value.
UOM Start Position	Set the start position of the unit of measure value. A position value of zero will display the weight that is received from the scale.
UOM End Position	Set the start position of the unit of measure value.
Include Start/End Strings	Include start and end strings in the returned packet.
Valid Weights Separated by Zero Weight	Check this box to ignore the status or return to zero data packet that is sent automatically from the scale.

Communication Mode

Select the scale communication mode.

Request	Scale data is requested. Enter the character(s) into the Request String field to make a request for weight from the scale indicator. Use the # character with a decimal value to set the request character as a control character. For example, #2=STX, #13#10=CRLFRequest Character=W#13//weightronix 1310
Broadcast	Scale data is “broadcasted” and transmitted automatically.
Request String/Broadcast Mode	The options available in this field change depending on your selected scale mode. When the scale mode is Request , you can enter characters into the field. Use the # character with a decimal value to set the request character as a control character. When the scale mode is Broadcast , you must select one of the following options from the drop-down list: Transmits Continuously, Transmits Continuously on Stable Weight, Transmits Once After Stable Weight.

Barcode Trigger

From this tab you can set up your barcode trigger mode and patterns.

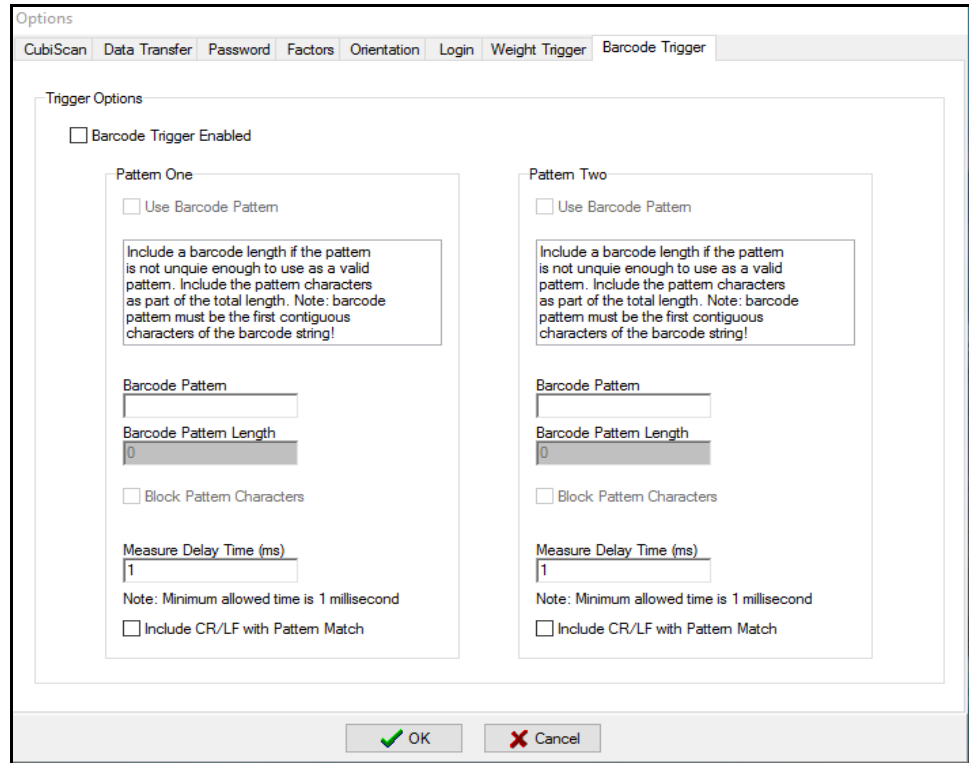


Figure 14
Barcode Trigger Tab

Trigger Options

Select your barcode trigger options.

- Barcode Trigger Enabled** Enable this box to use a barcode scanner as the trigger for a measure event.
- Pattern One/Two** The two barcode pattern options allow you to setup two different barcode patterns that can be used with a barcode scanner.
- Use Barcode Pattern** Enable this box to use either Pattern One or Pattern Two. If you are only using one barcode pattern, make sure you use Pattern One.
- Barcode Pattern** Enter the matching pattern that will be received from the barcode scanner. To create as much singularity as possible, enter as many contiguous characters as possible.

Barcode Pattern Length	Enter the length of the barcode pattern. If the barcode pattern does not provide enough singularity you can incorporate the length feature to use a starting pattern and barcode length to create a barcode trigger event.
Block Pattern Characters	Enable this box if you want to block the barcode pattern characters. Blocked characters are discarded and will not be displayed. If the characters are not blocked then the Measure Time Delay must be set greater than 299.
Measure Delay Time (ms)	Enter the measure request interval (in milliseconds) for when the received barcode characters match the characters in the Barcode Pattern field. If the Block Pattern Characters checkbox is not enabled, the measure delay time must be set greater than 299.
Include CR/LF with Pattern Match	Append a CR/LF suffix to matching barcode pattern characters.

Chapter 3

Measuring Objects

This chapter describes how to measure objects. Refer to the following sections for instructions on measuring objects with a CubiScan using Qbit-Xfer.

Complete the following steps to transfer information from Qbit-Xfer to your desired application. The following subheadings describe features unique to certain applications.

1. Connect your CubiScan to Qbit-Xfer by selecting the model and entering the appropriate information into the Communication Ports box.
2. Under the Target Window Layout tab, select your preferred data transfer application option. The options available are: **Keyboard Wedge/Cursor Location**, **UPS Worldship®**, **FedEx Ship Manager®**, **Computerized Parcel Software (CPS™)**, **Dazzle Professional Design Print/Quick Label (Endicia®)**, **Endicia® Order Lookup Screen**, **Endicia® PC Postage Screen**.
3. Under Universal Settings, enter your data transfer application option into the **Target Window Name** field. It must be typed in exactly as it appears in the data transfer option list to be successful (except for trademark symbols). This is the name that is also displayed in the application's title bar. Open the application that you specified.
4. Configure your formatting settings. For more information on the formatting options that are available, see [Chapter 2 “Configuration” on page 6](#).
5. There are four trigger options available (depending on your CubiScan choice). You can use a barcode scanner, 3rd party scale, platform trigger, or manual measure button. (If you are using the CubiScan 125 or 25, you can also move the gate.)
6. The data results will be shown in the message window. The data will be transferred to your selected application. An example is shown below using Notepad as the target window.

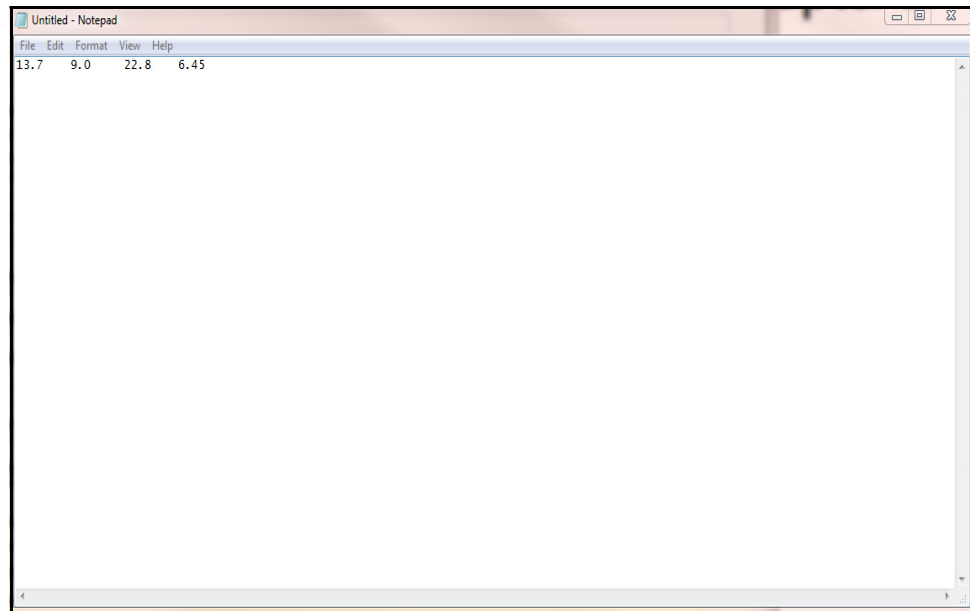


Figure 15
Data Results in Notepad

Keyboard Wedge/Cursor Location

This section describes features that are unique to using the keyboard wedge/cursor location option with Qbit-Xfer.

- Under the Tools > Options > Data Transfer > Format tab each option (Length, Width, Height, Weight, Volume, Dim Wgt) must be enabled if you want that information transferred. For more information, see [“Data Transfer Format” on page 11](#).

UPS WorldShip®

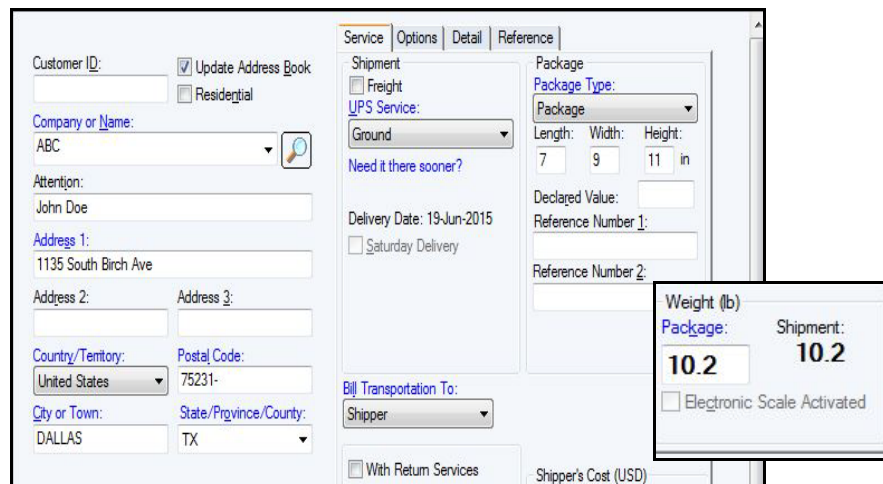
If you are using Qbit-Xfer to transfer information into UPS WorldShip, make sure you reference the bullet points listed below.

- Under the Tools > Options > Data Transfer > Format tab each option (Length, Width, Height, Weight) must be enabled if you want that information transferred. The Volume and Dim Wgt options are unavailable. For more information, see [“Data Transfer Format” on page 11](#).

- If you are using a CubiScan other than the CubiScan 75, open UPS WorldShip. In UPS WorldShip, make sure that the scale port and dimensioner port are both set to **None**.
- If you are using the CubiScan 75, in Qbit-Xfer, under Tools > Options > Data Transfer > Mode, enable the **Weight Captured from Host Application Scale** option. A third-party scale must be present if you are using the CubiScan 75 and want to collect weight data, because the CubiScan 75 does not have a scale. See “[Weight Captured from Host Application Scale](#)” on page 11 for more information on using a third-party scale.

NOTE 

If the electronic scale function is activated in UPS WorldShip, it will override all Qbit-Xfer weight dimensions.



The screenshot shows the UPS WorldShip software interface. The main window has tabs for Service, Options, Detail, and Reference. The Service tab is active, showing fields for Shipment (Freight, UPS Service: Ground), Need it there sooner?, Delivery Date (19-Jun-2015), and Saturday Delivery. The Package section shows Package Type, Length (7), Width (9), Height (11) in, Declared Value, Reference Number 1, and Reference Number 2. A pop-up window titled "Weight (lb)" shows "Package: 10.2" and "Shipment: 10.2" with a checkbox for "Electronic Scale Activated".

Figure 16
Data Results in UPS WorldShip

FedEx Ship Manager®

If you are using Qbit-Xfer to transfer information into FedEx Ship Manager, make sure you reference the bullet points listed below. Qbit-Xfer is certified to work with FedEx Ship Manager v.2800 and v.2900.

- In Ship Manager fill in all required fields located under Recipient information. Enter a placeholder number into the **Weight** field. Enter the service and package type. (All required fields must contain information before data can be requested from the CubiScan.)
- Under the Tools > Options > Data Transfer > Format tab each option (Length, Width, Height, Weight) must be enabled if you want that

information transferred. The length, width, height, and weight must be set to whole numbers (to do this, set the **Decimal Rounding Precision** field to **0**).

The Volume and Dim Wgt options are unavailable. For more information, see “[Data Transfer Format](#)” on page 11.

- If you are using the CubiScan 75, in Qbit-Xfer, under Tools > Options > Data Transfer > Mode, enable the **Weight Captured from Host Application Scale** option. A third-party scale must be present if you are using the CubiScan 75 and want to collect weight data, because the CubiScan 75 does not have a scale. See “[Weight Captured from Host Application Scale](#)” on page 11 for more information on using a third-party scale.

Figure 17
Data Results in FedEx Ship Manager

Computerized Parcel Software (CPS™)

If you are using Qbit-Xfer to transfer information into Computerized Parcel Software, make sure you reference the bullet points listed below.

- Under the Tools > Options > Data Transfer > Format tab each option (Length, Width, Height, Weight) must be enabled if you want that information transferred. The Volume and Dim Wgt options are

unavailable. For more information, see “Data Transfer Format” on page 11.

- You can also use your third-party scale to gather weight data, see “Weight Captured from Host Application Scale” on page 11.

Dazzle Professional Design Print/Quick Label (Endicia®)

If you are using Qbit-Xfer to transfer information into Dazzle Professional Design Print/Quick Label, make sure you reference the bullet points listed below.

- If you are using the Design and Quick Label windows, both names must be entered exactly as: **Print+Quick Label**
- The **Endicia PC Port #** field can be used to define a serial port for a serial loop back to simulate weight coming from a bench scale. For more information, see “Endicia PC Port #” on page 10.
- Under the Tools > Options > Data Transfer > Format tab each option (Length, Width, Height, Weight) must be enabled if you want that information transferred. The Volume and Dim Wgt options are unavailable. For more information, see “Data Transfer Format” on page 11.
- You can also use your third-party scale to gather weight data, see “Weight Captured from Host Application Scale” on page 11.

Endicia® Order Lookup Screen

If you are using Qbit-Xfer to transfer information into Endicia Order Lookup Screen, make sure you reference the bullet points listed below.

- The **Endicia PC Port #** field can be used to define a serial port for a serial loop back to simulate weight coming from a bench scale. For more information, see “Endicia PC Port #” on page 10.
- Under the Tools > Options > Data Transfer > Format tab each option (Length, Width, Height, Weight) must be enabled if you want that information transferred. The Volume and Dim Wgt options are unavailable. For more information, see “Data Transfer Format” on page 11.
- You can also use your third-party scale to gather weight data, see “Weight Captured from Host Application Scale” on page 11.

Endicia® PC Postage Screen

If you are using Qbit-Xfer to transfer information into Endicia PC Postage Screen, make sure you reference the bullet points listed below.

- Under the Tools > Options > Data Transfer > Format tab each option (Length, Width, Height, Weight) must be enabled if you want that information transferred. The Volume and Dim Wgt options are unavailable. For more information, see “Data Transfer Format” on page 11.
- You can also use your third-party scale to gather weight data, see “Weight Captured from Host Application Scale” on page 11.

Command Line Parameter

The command line parameter is an alternate and convenient method using a keystroke to measure objects with Qbit-Xfer. When you use this method you simply tap a key, which then opens Qbit-Xfer, prompts a measurement, the data is sent, and then Qbit-Xfer closes (if correctly configured).

To configure Qbit-Xfer to use the command line parameter method, complete the following steps.

1. In Qbit-Xfer, under Tools > Options > Data Transfer > Mode, enable the **Close Qbit-Xfer After Each Measurement** option. Close Qbit-Xfer.
2. Locate the Qbit-Xfer shortcut that was added to your desktop when the application was installed. Right click on the shortcut and select **Properties**.
3. Put quotation marks around the text in the **Target** field. Add a **1** after the last quotation mark. Do not erase any of the text in the target field. It should look something like this:
"C:\CubiScan\QbitXfer.exe" 1 (there must be a space between the quotation mark and the 1)
4. Move your cursor to the **Shortcut Key** field. Tap whichever key you would like to use to prompt measurements. Function keys are recommended. When you have tapped your preferred key it should appear in the shortcut key field. Close the properties dialog box.
5. To prompt a measurement, tap the shortcut key that you selected. Qbit-Xfer should momentarily open, transfer data, and then close.

The only way to open Qbit-Xfer after setting up the command line parameter is to either:

- Undo step 3 (remove the 1 from the **Target** field)
- Open Qbit-Xfer from its physical file location

Qbit-Link

Qbit-Link is middleware that connects to a CubiScan and can then transfer data to multiple instances of Qbit-Xfer. This enables data to be transferred to different host windows or even different computers.

CubiScan → Qbit-Link → Qbit-Xfer → Target Host Window(s)

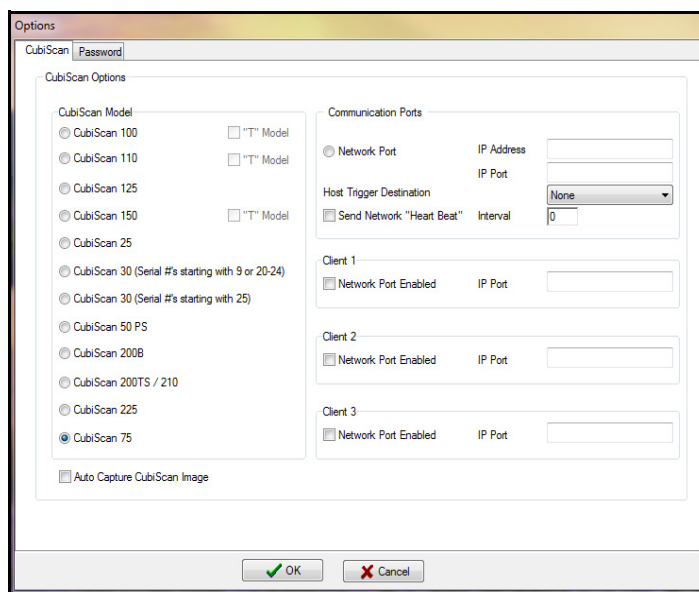


Figure 18
Qbit-Link CubiScan Tab

Complete the following instructions for setting up Qbit-Link.

1. Make sure all the needed applications are installed.
2. Connect Qbit-Link to your CubiScan by selecting the model and entering the appropriate information into the Communication Ports box.
3. In Qbit-Link, under the CubiScan tab, enable however many clients you will be using. Enter a port number.

4. Next, you need to connect your Qbit-Xfer instance(s) to Qbit-Link. Enter the IP address of the computer that Qbit-Link is operating on into Qbit-Xfer's Communication Ports box. Then enter the same port number that was entered in Qbit-Link.
5. Configure your formatting settings. For more information on the formatting options that are available, see [Chapter 2 "Configuration" on page 6](#).

Qbit-Xfer should now communicate with the CubiScan through Qbit-Link.

Qbit-Link is designed to run in the background. You can access the application from the Windows notification area.

If you are interested in Qbit-Link or need further information, contact Quantronix at 801-451-7000.

Chapter 4

CubiScan Functions

This chapter provides information on the Qbit-Xfer functions used to verify, reset, and test the CubiScan. These functions are selected from the Tools menu and include the following:

- Zero
Use this function to zero the CubiScan weight and dimensional values.
- Status
Use this function to verify that the CubiScan is operating properly.
- Test Mode
Use this function to set up the CubiScan for testing.
- Values
Use this function to display a table of sensor values that can be useful for troubleshooting problems.
- Calibrate
Use this function to calibrate the sensors and the scale.

NOTE

The “Zero,” “Status,” “Test Mode,” “Values,” and “Calibrate” functions may not be available depending on whether or not the functions are available on the selected CubiScan model.

This chapter also provides information specifically on various CubiScan 75 functions that are available in Qbit-Xfer. See [“CubiScan 75 Functions” on page 40](#) for more information.

Functions

Refer to the following sections for more information on each function.

Zero

Use the Zero function to “zero” the CubiScan. Zeroing sets all dims and weight to zero. The weight of the platform and the measurement from each sensor to the platform sides when the platform is empty must be set to zero for the CubiScan to operate properly. A CubiScan zeros itself automatically

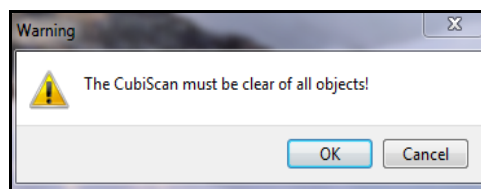
every five seconds when it is not in Measure mode. However, you may need to manually zero the CubiScan in the following circumstances:

- If, during a long measuring session, environmental conditions (temperature and humidity) have changed noticeably.
- If you suspect that the last zeroing was in error (e.g., something was on the platform).

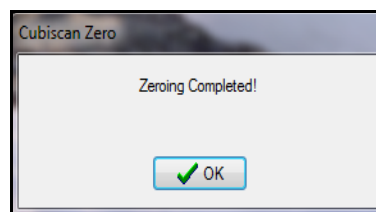
NOTE 

Make certain that the CubiScan platform is free of all objects before using Zero. If not, the zero reading will not be accurate.

1. Pull down the Tools menu, and select **Zero**. The following prompt is displayed.



2. Verify that the CubiScan platform is free of ALL objects, then click **[OK]** to proceed.
3. After the scale and sensors are zeroed, the following message is displayed.

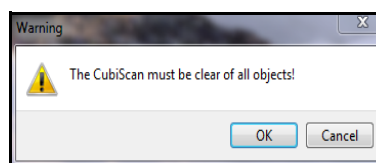


4. Click **[OK]** to return to the main window.

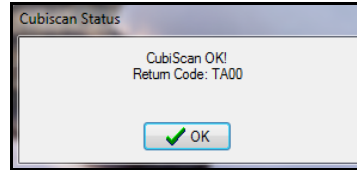
Status

Use the Status function to verify that the CubiScan is operating properly.

1. Select **Status** from the Tools menu, and the following prompt is displayed.



2. Verify that the CubiScan platform is free of ALL objects, then click **[OK]** to proceed.
3. The current status is checked and an appropriate message returned. If there are no problems, the following message is displayed.



4. Click **[OK]** to return to the main window.

If any problems are found, an error message appears. For example:

TAXX – [error message]

(where XX is the error number)

If you get an error message, first verify that the CubiScan is turned on, then refer to the Troubleshooting chapter in your CubiScan manual for further help.

Test Mode

Use the Test Mode function to set up the CubiScan for testing purposes. When you select this function, the CubiScan measures, weighs, and displays the results continuously, as shown below.

A screenshot of a dialog box titled "CubiScan Test Mode". It contains a table with four columns: Length, Width, Height, and Weight. The table displays 15 rows of data. At the bottom of the dialog box is a "Cancel" button with a red 'X' icon.

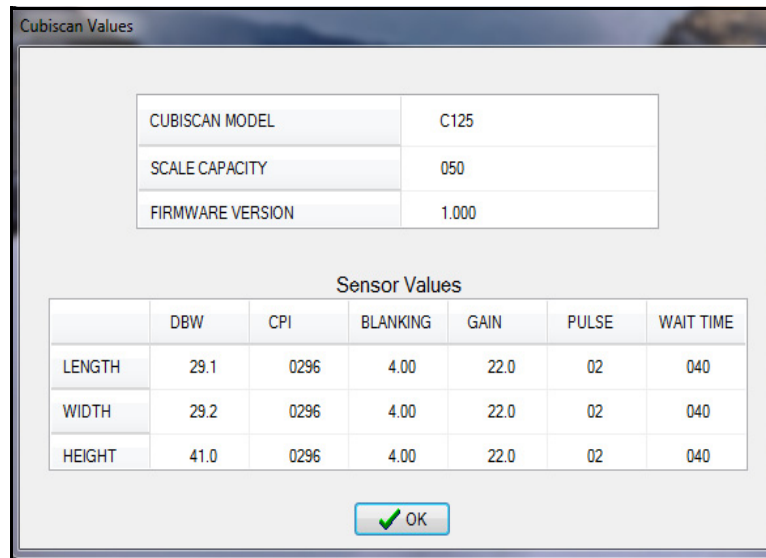
Length	Width	Height	Weight
12.1	12.0	12.1	5.575
12.1	12.0	12.1	5.575
12.1	12.0	12.1	5.575
12.1	12.0	12.1	5.575
12.1	12.0	12.1	5.575
12.1	12.0	12.1	5.575
12.1	12.0	12.1	5.575
12.1	12.0	12.1	5.575
12.1	12.0	12.1	5.575
12.1	12.0	12.1	5.575
12.1	12.0	12.1	5.575
12.1	12.0	12.1	5.575
12.1	12.0	12.1	5.575
12.1	12.0	12.1	5.575
12.1	12.0	12.1	5.575

Figure 19
Test Mode

The collected data continues to scroll on the screen until you exit test mode. The data collected is not recorded or saved. To exit from test mode, click **[Cancel]**.

Values

Use the Values function to display a table of sensor values that can be useful for troubleshooting problems with the CubiScan.



The screenshot shows a window titled "Cubiscan Values". It contains a table with the following data:

CUBISCAN MODEL	C125
SCALE CAPACITY	050
FIRMWARE VERSION	1.000

Below this is a section titled "Sensor Values" with a table:

	DBW	CPI	BLANKING	GAIN	PULSE	WAIT TIME
LENGTH	29.1	0296	4.00	22.0	02	040
WIDTH	29.2	0296	4.00	22.0	02	040
HEIGHT	41.0	0296	4.00	22.0	02	040

At the bottom of the window is an "OK" button with a green checkmark icon.

Figure 20
CubiScan Values

Click **[OK]** to return to the main window.

Calibrate

Use Calibrate to recalibrate the CubiScan sensors (or CubiScan 30 lasers) and scale. Refer to your CubiScan manual for information on when the CubiScan should be calibrated.

Before calibrating the CubiScan, remove all packages or other material from the platform, and blow any dust off the sensor screens. Refer to your CubiScan manual for information on cleaning the sensors.

To perform the calibration, you will need the following:

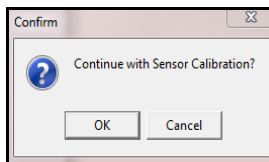
- Official test weight. The weight varies for each model of CubiScan; refer to your CubiScan manual. (It is recommended that you calibrate with the maximum weight.)
- Calibration cube—supplied with the CubiScan.

Refer to the appropriate section below to proceed.

Sensors This option may not be available for all CubiScan models. Refer to your CubiScan *Operations and Technical Manual* for information. If you are calibrating the CubiScan 75 sensors, see the section on calibrating the “CubiScan 75 Sensors” below.

Take the following steps to calibrate the CubiScan’s sensors.

1. Select **Calibrate** from the Tools menu, then select **Sensors**. The following prompt is displayed.



2. Click **[OK]** to proceed, and the following dialog box appears.

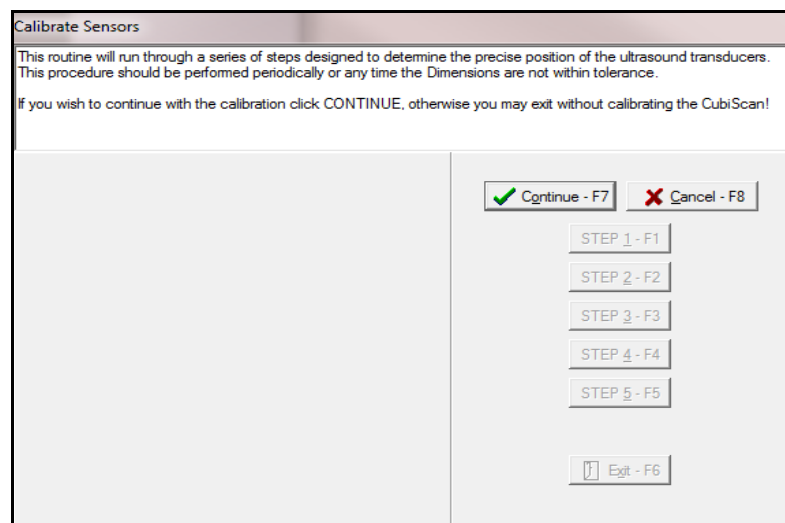
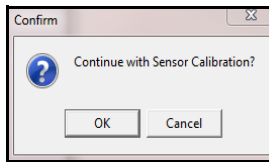


Figure 21
Calibrate Sensors

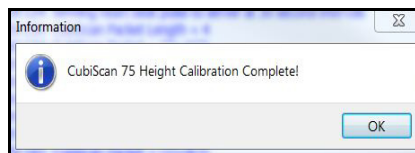
3. Click **[Continue]** (or press **<F7>**) to begin the process of calibrating the CubiScan’s sensors. Follow the instructions for steps 1-5, until the sensor calibration is finished.
4. Click **[Exit]** (or press **<F6>**) to return to the main window.

CubiScan 75 Sensors Complete the following steps to calibrate the CubiScan 75 sensors.

1. Select **Calibrate** from the Tools menu, then select **Sensors**. The following prompt is displayed.



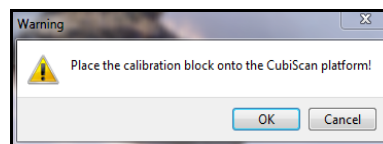
2. Place the calibration cube on the platform. If you are using a scale with the CubiScan 75, place the calibration cube on top of the scale. If you remove or add a scale at any time, the height must be recalibrated.
3. Click **[OK]** to proceed, and the following dialog box appears.



4. Press okay to return to the main window.

Laser Take the following steps to calibrate the CubiScan 30 lasers. (A CubiScan 30 model must be selected in the Tools menu > Options > CubiScan tab.)

1. Select **Calibrate** from the Tools menu, then select **Laser**. The following prompt is displayed.

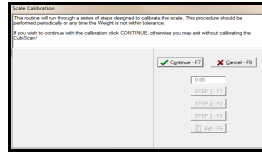


2. Place the calibration standard block on the CubiScan platform, and click **[OK]** to proceed.
3. Follow the instructions in the *CubiScan 30 Operations and Technical Manual* to calibrate the lasers.

Scale This option may not be available for all CubiScan models. Refer to your *CubiScan Operations and Technical Manual* for information.

Take the following steps to calibrate a CubiScan scale.

1. Select **Calibrate** from the Tools menu, then select **Scale**. The following prompt is displayed.



2. Click **[OK]** to proceed and the following dialog box appears.

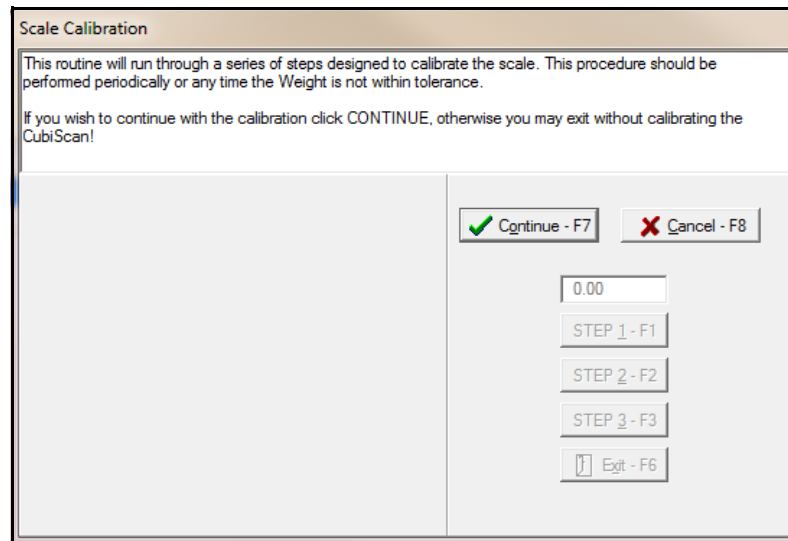


Figure 22
Scale Calibration

3. Click **[Continue]** (or press **<F7>**). The cursor moves to the text box.
4. Enter the weight of the official calibration test weight. Refer to your CubiScan manual for specific recommendations.
5. Click **[Step 1]** (or press **<F1>**).
6. Clear the CubiScan of all objects and click **[Step 2]** (or press **<F2>**).
7. Place the test weight on the CubiScan platform, wait for the platform to stop moving, and click **[Step 3]** (or press **<F3>**).

The scale calibration is finished.

8. Click **[Exit]** (or press **<F6>**) to return to the main window.
9. Remove the test weight from the CubiScan platform, make sure the platform is completely clear of all objects, and select **Zero** from the Tools menu to zero the CubiScan.

CubiScan 75 Functions

This section describes the various functions found on the CubiScan75 menu option. These functions include the following:

- Switch Platform Trigger ON (page 40)
- Switch Platform Trigger OFF (page 40)
- Capture Image (page 41)
- Enable Live View Mode on CubiScan Display (page 41)
- Disable Live View Mode on CubiScan Display (page 41)
- Enable “Pop-Up” View Mode on CubiScan Display (page 41)
- Disable “Pop-Up” View Mode on CubiScan Display (page 41)
- Switch CubiScan Dim Unit to Imperial (page 43)
- Switch CubiScan Dim Unit to Metric (page 43)
- Switch CubiScan Dim Wgt to Imperial (page 43)
- Switch CubiScan Dim Wgt to Metric (page 43)
- Switch CubiScan Factor to Domestic (page 43)
- Switch CubiScan Factor to International (page 43)

Refer to the following sections for more information on each function.

Switch Platform Trigger ON/OFF

Use these functions to turn the platform trigger on and off. The platform trigger is the default trigger for the CubiScan 75. To prompt a measurement, simply place an object in the measurement area. The CubiScan 75 will automatically measure the object as soon as it detects that a stable (non-moving) object is in the measurement area.

The other triggers available are:

- Barcode Trigger
This trigger can be selected under Tools > Options > Barcode Trigger. For more information, see “Barcode Trigger” on page 23.
- Scale Trigger
This trigger can be selected under Tools > Options > Weight Trigger. For more information, see “Weight Trigger” on page 19.
- Manual Measure Button
This button is located on the Qbit-Xfer Main Window. To prompt a measurement, simply click this button.

Capture Image

Select this option to capture an image of the measurement area. The image is saved in the Images folder located in the installation root folder.

CubiScan 75 Display

This section provides information on the CubiScan 75 display and the display configuration options available.

- Enable Live View Mode on CubiScan Display
- Disable Live View Mode on CubiScan Display
- Enable “Pop-Up” View Mode on CubiScan Display
- Disable “Pop-Up” View Mode on CubiScan Display

The default display is a color-depth image that uses a color scale to indicate the height of the object. The other display window option is a live view mode of the measurement area.

You can also enable a pop-up window. The pop-up window only appears after a measurement has been taken. The pop-up window displays whichever screen option is not currently selected in the display window. Examples of each of the screen options are shown below.

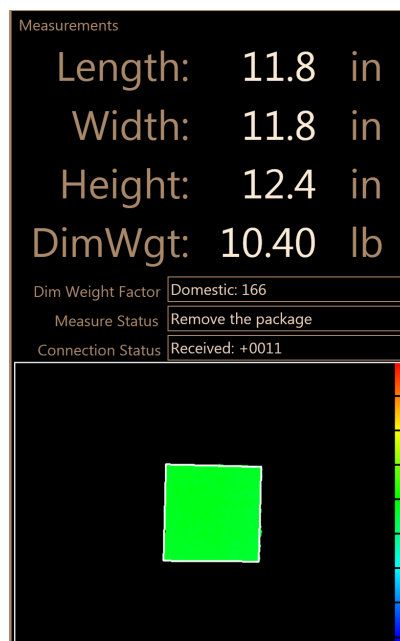


Figure 23
Default Screen (Color-Depth Image)



Figure 24
Default Screen with Pop-Up



Figure 25
Live View Mode

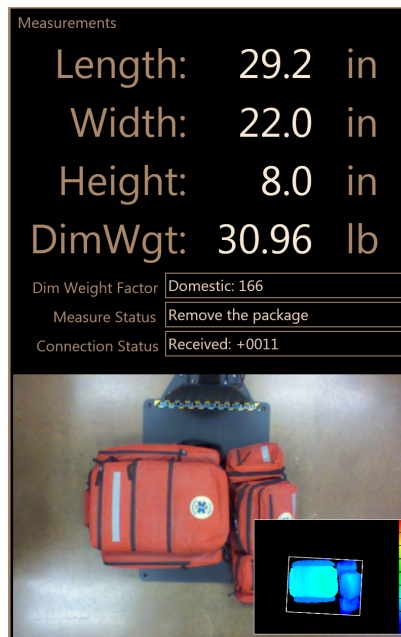


Figure 26
Live View Mode with Pop-Up

CubiScan 75 Units

This section provides information on the CubiScan 75 unit options. The options available are:

- Switch CubiScan Dim Unit to Imperial
Select this function to select imperial units for dimensions (length, width, and height).
- Switch CubiScan Dim Unit to Metric
Select this function to select metric units for dimensions (length, width, and height).
- Switch CubiScan Dim Wgt to Imperial
Select this function to select imperial units for the dimensional weight (DimWgt).
- Switch CubiScan Dim Wgt to Metric
Select this function to select metric units for the dimensional weight (DimWgt).
- Switch CubiScan Factor to Domestic
Select this function to select a domestic factor for your dimensional weight. The factor is displayed in the Dim Weight Factor field on the CubiScan 75 display. To enter or view your domestic factor, see “Factors” on page 15.

- **Switch CubiScan Factor to International**
Select this function to select a international factor for your dimensional weight. The factor is displayed in the Dim Weight Factor field on the CubiScan 75 display. To enter or view your international factor, see “Factors” on page 15.

Appendix A

Installation

This appendix provides instructions for installing Qbit-Xfer.

System Requirements

Qbit-Xfer is designed to operate with the following minimum computer requirements:

Processor:	PC Pentium III processor or better
Memory:	1 GB RAM
Hard Disk:	40 MB disk space available
Display:	VGA 1024 x 768 or higher resolution color display (<i>will not operate at a lower resolution; eg., 800 x 600</i>)
Operating System:	Microsoft Windows 2000, Windows XP, Windows 7, 8, and 10
Other:	Quantronix, Inc. CubiScan unit attached to computer

Installing Qbit-Xfer

Do the following to install Qbit-Xfer on your computer.

1. Close any open Windows applications.
2. Insert the CubiScan CD-ROM in your CD-ROM drive.
3. Click **Open folder to view files**.
4. Double-click the Qbit-Xfer Setup file.

5. The welcome window is displayed.

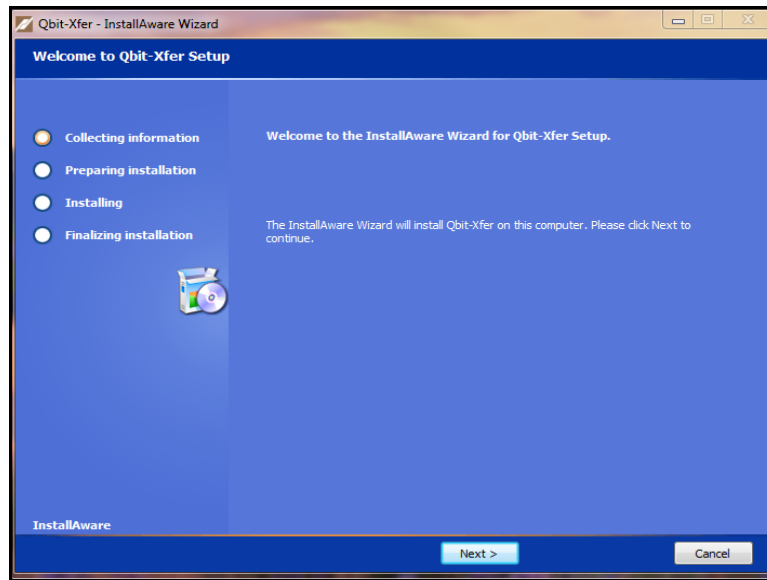


Figure 27
Qbit-Xfer Installation, Welcome Window

6. Click **[Next]** to continue, and the license agreement window is displayed.

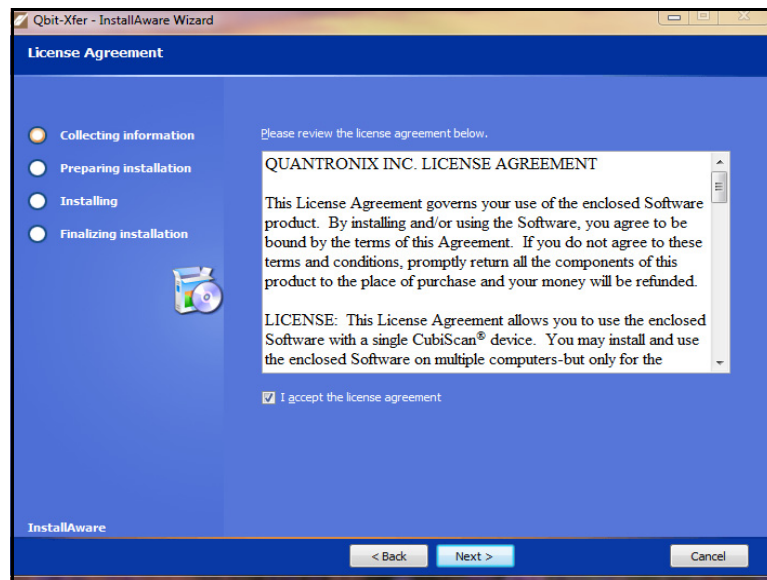


Figure 28
Qbit-Xfer Installation, License Agreement

7. Read the license agreement, and click the radio button next to “I accept the license agreement” if you agree. Click **[Next]** to continue, and the following window appears.

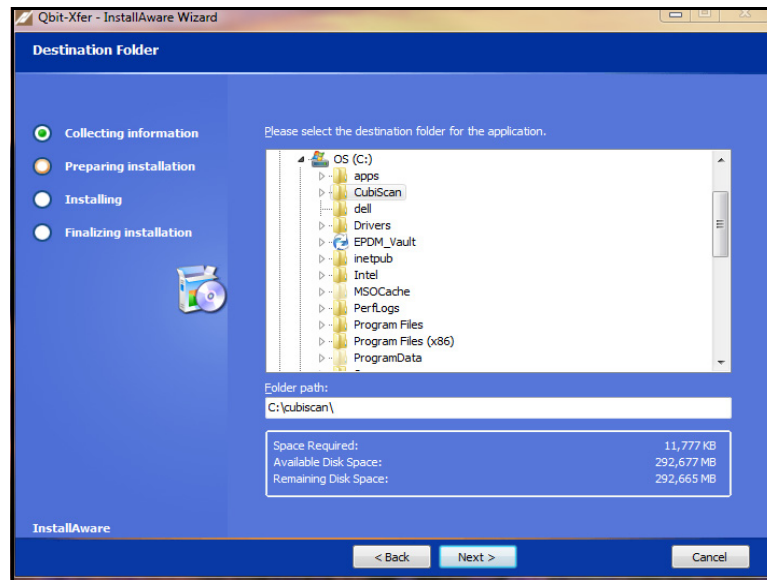


Figure 29
Qbit-Xfer Installation, Destination Folder

8. Accept the default path for the installation of Qbit-Xfer, or select a different drive and/or folder. Click **[Next]** to continue. The following window is displayed.

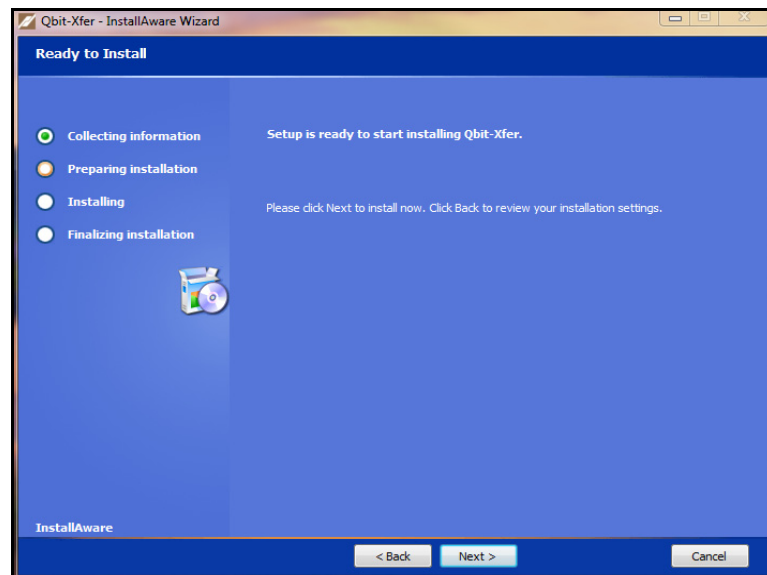


Figure 30
Qbit-Xfer Installation, Setup Complete

9. Click **[Next]** to continue, and the following window appears.

10. If you want to review or change any of the settings, click **[Back]**. If not, click **[Next]** to continue.

Qbit-Xfer will be installed. An icon will appear on your desktop for easy access.