

# ***QuikRuler III***™

The Portable Measuring System  
for Use with a Digitizer

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## QuikRuler III Overview

Congratulations on purchasing the GTCO CalComp QuikRuler III. QuikRuler III is a portable measuring system that is perfect for estimators, builders, contractors, surveyors, scientists, planners, designers, appraisers, and anyone else who needs to take measurements from blueprints, maps, diagrams, and other drawings. QuikRuler III quickly and accurately automates blueprint takeoff and drawing measurement processes.

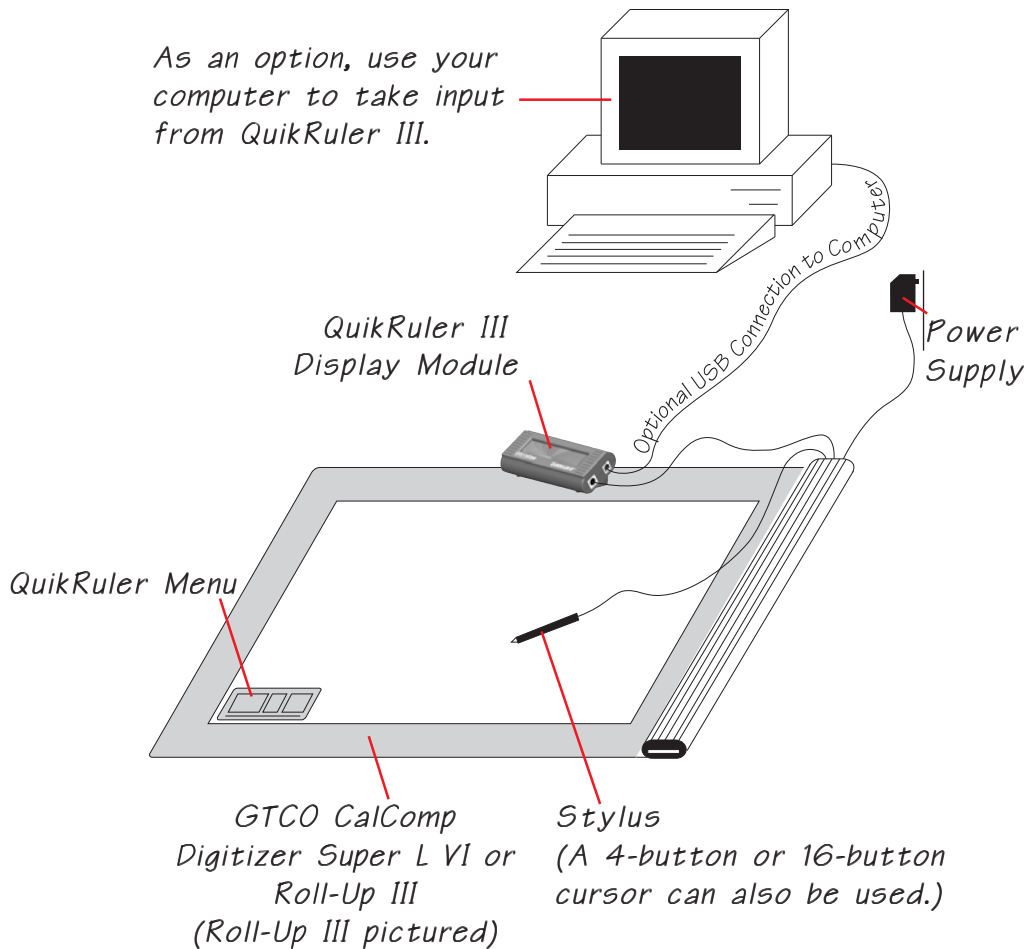
With QuikRuler III, you can quickly measure areas, perimeters, and lengths using any scale and unit of measure. You can perform more complex measurements by adding, or subtracting, areas and lengths. The built-in measurement functions, combined with QuikRuler's calculator, make QuikRuler III an indispensable tool. And with the optional PC interface, you can send results directly from the QuikRuler III display to your PC, for use in a spreadsheet or estimating package.

Best of all, you don't need any special experience or training to use QuikRuler III. The QuikRuler III is compatible with all leading estimating software. Simply select a function from the QuikRuler Menu, click the stylus or cursor on the drawing, and read the result on the QuikRuler III display.

# Set Up

## Components

QuikRuler III combines a digitizer, stylus or cursor, and portable display into a single system that is easy to move and set up as needed.

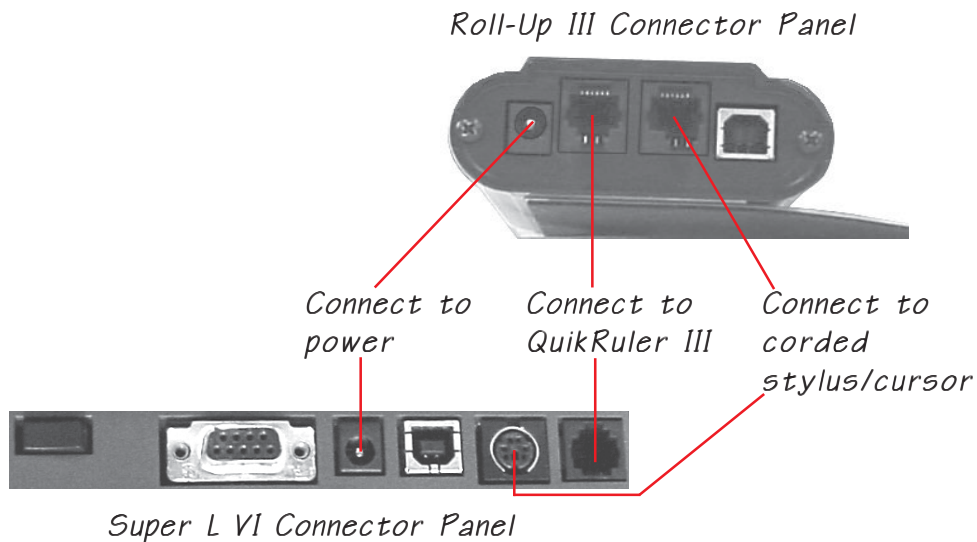


**Contact GTCO CalComp Technical Support for instructions on the use of the QuikRuler III with older GTCO CalComp products – Roll-Up II, Super L III, Super L II Plus, etc.**

## Connecting the Components

- 1 Connect the 8-pin mini-DIN end of the digitizer interface cable to the QuikRuler III Display Module.
- 2 Connect the RJ12 end of the digitizer interface cable to the digitizer.
- 3 Connect the stylus or optional cursor to the digitizer when using a corded pointing device.
- 4 Connect the power supply to the digitizer.
- 5 **Optional:** If you are inputting data to the computer, connect the QuikRuler III to the computer, using the USB cable.

### Digitizer Connections




### QuikRuler III Display Module Connections



**Note** When the QuikRuler III is used with GTCO CalComp digitizers other than the Roll-Up III or Super L VI, additional hardware is required. Contact GTCO CalComp for further information.

## Optional PC Connection

If you want to send data directly from the QuikRuler III to a PC, connect the keyed end of the supplied USB cable to the QuikRuler Display Module and the USB connector end to an available USB port  on the computer. Contact Technical Support regarding computers that do not support USB communications.

## Starting QuikRuler III

QuikRuler III starts up when you apply power to the digitizer. If the start-up is successful, you will hear four short beeps from the digitizer and, after the sign-on messages, line 1 of the Display Module will read **Select from Menu**. Line 2 of the display will show the current X-axis and Y-axis position of the stylus and a number indicating the status of the stylus switches. If the stylus is positioned over the menu, the numbers will be replaced by dashes (- ----, ----). If the stylus is not *in prox of* (close to) the digitizer's measuring area, the numbers will be replaced by asterisks (\* \*\*\*\*, \*\*\*\*).

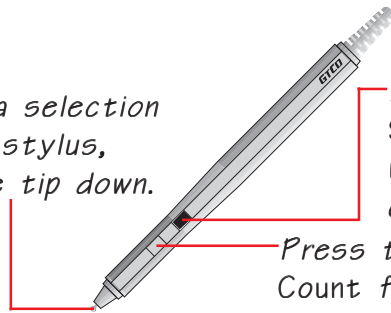
Position your plans or blueprints on the digitizer's active area. You can use tape to hold them in place. Use the tip of the stylus to click on a QuikRuler Menu function button: see the *QuikRuler Menu Location* section of this manual on page 10 before you begin using your QuikRuler III.

## Making Selections

You can use either a stylus or a cursor to trace and measure drawings. You can also use either device to make selections from the QuikRuler Menu. This manual assumes you are using a stylus.

### Stylus

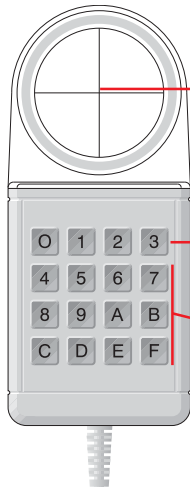
To make a selection with the stylus, press the tip down.



Press the black button to Send data to the computer via the optional USB connection.

Press the gray button to use the Count function. For more information, see Counting Drawing Elements later in this manual.

### 16-Button Cursor

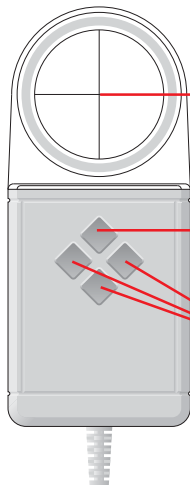


Crosshairs for tracing or selecting.

Press any button on the top row to make a selection — same as stylus tip-down switch.

Press any button on the bottom three rows to activate a QuikRuler Menu function without clicking on the menu (see Appendix A: Transducer Button Functions).

### 4-Button Cursor



Crosshairs for tracing or selecting.

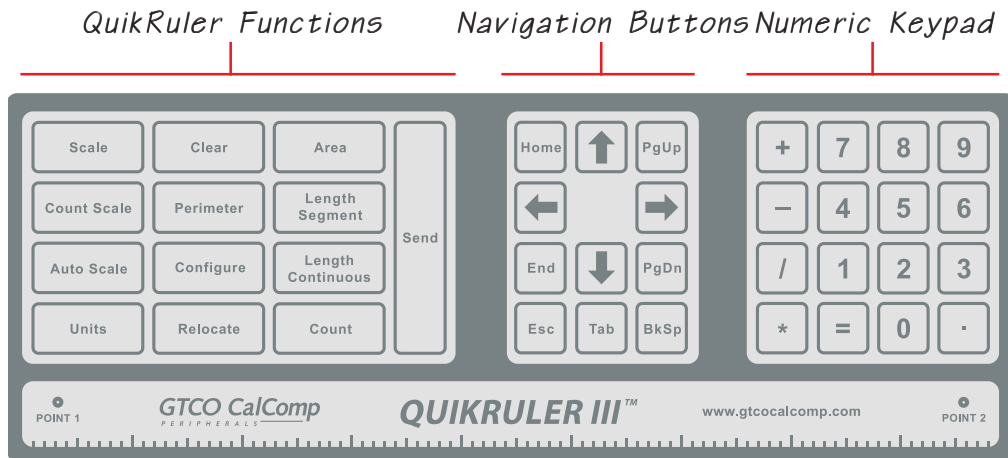
Press the yellow button on the cursor to make a selection — same as stylus tip-down switch.

Press the white, green, or blue button on the cursor to activate a QuikRuler Menu function without pointing to the menu (see Appendix A: Transducer Button Functions).

# Configuring QuikRuler III

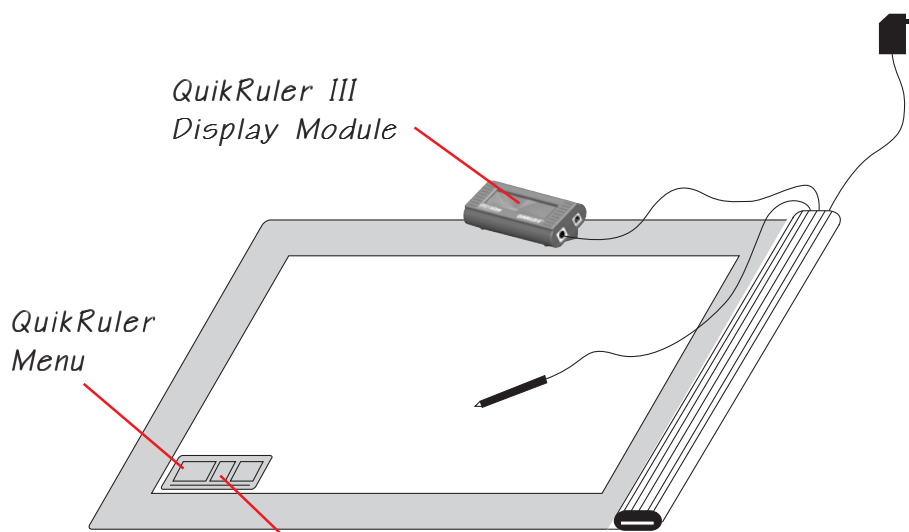
## The QuikRuler Menu

The QuikRuler Menu is used to select QuikRuler III functions and to determine settings.



## QuikRuler Menu Location

When QuikRuler III is shipped to you, it is programmed to expect the QuikRuler Menu to be located in the lower left corner of the digitizer's active area.



When you first start QuikRuler III, it expects the menu to be here in the digitizer's lower left corner.

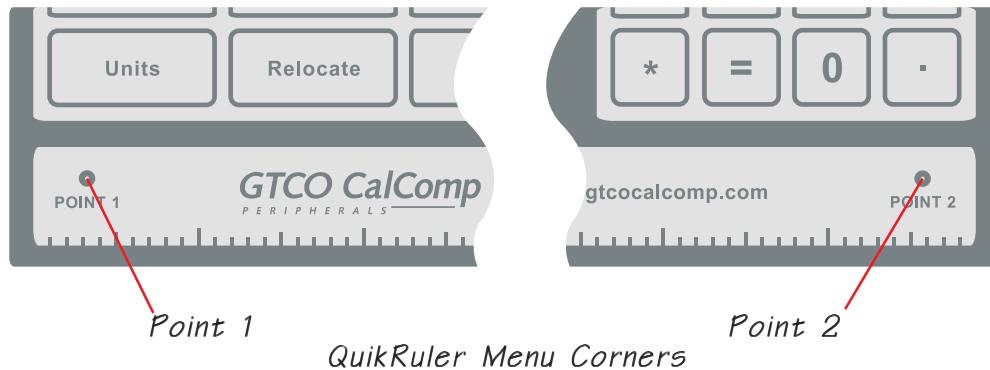
## Relocating the Menu at Start-Up

When you start QuikRuler III, it shows the following message for five seconds.

### Press Switch to Relocate Menu...

If you don't want the QuikRuler Menu to be positioned in the lower left corner of the digitizer, this is the time to relocate it.

- 1 Position the menu where you prefer to have it located and tape it down. The entire menu must be within the digitizer's active measuring area.
- 2 Power up the digitizer.
- 3 Using the stylus tip, click anywhere on the digitizer when the **Relocate Menu** message is displayed.



QuikRuler III prompts you to **Select Point 1**.

- 4 Click the stylus on the left point on the menu.

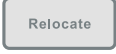
QuikRuler III then prompts you to **Select Point 2**.

- 5 Click the stylus on the right point on the menu.

The **Select from Menu** prompt displays to indicate the QuikRuler Menu relocation has been successful.

## Relocating the Menu while Working with QuikRuler III

You can change the location of the QuikRuler Menu at any time while working with QuikRuler III.

- 1 Click on the  button.
- 2 Put the menu where you want it to be relocated and tape it down. QuikRuler III prompts you to **Select Point 1**.
- 3 Click the stylus on the left point on the menu.

QuikRuler III then prompts you to **Select Point 2**. (See the previous page for an illustration of the left and right menu points, *Point 1* and *Point 2*.)

- 4 Click the stylus on the right point on the menu.

The **Select from Menu** prompt displays to indicate the QuikRuler Menu relocation has been successful.

## If You Lose the Menu Location

If you inadvertently move the QuikRuler Menu, don't panic. Instead:

- 1 Tape the menu down where you want it to be located.
- 2 Disconnect the digitizer power supply.
- 3 Reconnect the digitizer power supply and listen for the digitizer's four beeps.
- 4 When QuikRuler III displays the

### Press Switch to Relocate Menu...

message, click the stylus anywhere on the digitizer's active area to enter Relocate Mode.

- 5 Follow the prompts to select **Point 1** and **Point 2**. (See the previous page for an illustration of the left and right menu points, *Point 1* and *Point 2*.)


The **Select from Menu** prompt displays to indicate the QuikRuler Menu relocation has been successful.

## Using the Configure Function




QuikRuler III provides a number of user preference settings. Use the **Configure** button to set:

- the number of digits to the right of the decimal point,
- the tones you want to hear when you perform specific functions,
- your language preference,
- character selections.



The steps below describe how to select a specific configuration preference. The sections that follow describe how to select a setting for each configuration preference.

- 1 Click on the  button to activate the *Configure* function.

QuikRuler III displays a preference option and its current setting.

- 2 Click on the  button repeatedly, or click on the  or  button to display the option you want to change. The *Configure* options include:

**Digits Rt of '.'**  
**Select Tones**  
**Select Language**  
**Decimal Pnt Char**  
**Last Character**




- 3 Click on the  or  button to change the current setting of the displayed option. See the following sections for details on each option.

### Setting Fractional Digits (Digits to the right of the period [.] )

QuikRuler III can display from 0 to 8 digits to the right of the decimal point. Use this *Configure* option to set the number of digits to the right of the decimal point.

- 1 Display the *Digits Rt of '.'* option on line 1.

The current setting for the number of digits is displayed on line 2 beneath the flashing cursor.



- 2 Change the current setting by clicking on a number from  to  on the QuikRuler Menu.
- 3 Click on the  button to save your setting, or select another configuration option or QuikRuler function to save your setting or activate the selected function.

## Setting Tone Options

QuikRuler III can sound a tone when you make a selection from the QuikRuler Menu, or when you press the stylus tip on the digitizer surface, or both. Or, you can opt to turn off the tones entirely.

- 1 Display the *Select Tones* option on line 1.

The currently selected tone option is displayed on line 2.


- 2 Click on the  or  button repeatedly until you see the tone setting that you want to use. Choose from the following options.

**Menu + Tablet**

**Menu Only**

**Tablet Only**

**Disabled**




- 3 Click on the  button to save your setting, or select another configuration option or QuikRuler function to save your setting or activate the selected function.

## Selecting your Language

The QuikRuler III display supports a variety of languages. You can select your language preference by:

- 1 Displaying the *Select Language* option on line 1.

The currently selected language is displayed on line 2.




- 2 Click on the  or  button repeatedly until you see the language setting you want to use.
- 3 Click on the  button to save your setting, or select another configuration option or QuikRuler function to save your setting or activate the selected function.

## Choosing the Decimal Point Character


QuikRuler III can display either a period (.) or a comma (,) as the decimal point character when numeric values are shown.

- 1 Display the *Decimal Pnt Char* option on line 1.

The currently selected character, followed by a flashing cursor, is displayed on line 2.



- 2 Click on the  or  button to move the cursor to the character you want to use.
- 3 Click on the  button to save your setting, or select another configuration option or QuikRuler function to save your setting or activate the selected function.

## Setting the Last Output Character


When a numeric value is present on line 2 of the display and the  button is clicked, the value is sent to the computer. You can use this option to specify which character you want to use to indicate the end of the numeric value being sent. Your selection may be predicated on the destination of the data. For example, you may want to choose the Tab character as the Last Character if you are sending data to an Excel spreadsheet. The tab character will move the cursor to the next cell, where it will be ready to receive the next numeric value.

- 1 Display the *Last Character* option is displayed on line 1.



The currently selected last character is displayed on line 2.

- 2 Click on the  or  button until you see the last character you want to use. You can choose from the following terminator characters:


**Enter**  
**Tab**  
**Down Arrow <↓>**  
**Right Arrow <→>**



- 3 Click on the  button to save your setting, or select another configuration option or QuikRuler function to save your setting or activate the selected function.

## Setting the Units and the Scale


Use the  and  functions to tell QuikRuler III the units in which you want measurements to be displayed and the scale of the drawing you are measuring.

### First, Identify the Unit of Measure

Use the  function to indicate the units in which you want measurements to be displayed. You will then set the *scale* of the measurements.

For example, suppose you are working with a map where 1 centimeter on the map represents 3 kilometers. You would use the  function to tell QuikRuler III that you want to measure your drawing in centimeters and to display the result in kilometers. You would then use the  function to set a 1:3 scale.



You can use the  function at any time to convert the current measurement, shown on the second line of the display, to a different unit of measure.





### Set the Units

- 1 Click on the  button.


QuikRuler III displays:

**Measured (cm)**  
**Displayed (km)**

where, using the previous example, centimeters are the units of the measurements from your drawing, and kilometers are the units you want to display. The flashing cursor follows the unit that can be changed.

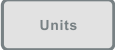

- 2 Click on the  or  button to move the flashing cursor to the unit you want to set. Click on the  or  button until you see the unit of measurement you want to use displayed. Select from:

mm	in
cm	ft
m	yd
km	mi




- 3 Click on the  button to save your setting, or select another option or function to save your setting and activate the selected function.


## Manually Setting the Scale


If you know the scale of the drawing you are working with, you can enter the measurement scale manually.

- 1 Use the  button to select the unit of measure for the first part of the scale. For example, if 1 centimeter equals 3 kilometers, select **cm** as the unit of measure and **km** as the displayed unit.
- 2 Click on the  button to activate the *Scale* function.

QuikRuler III displays the current scale setting on line 2. For example, if the current scale is 1 cm = 3 km, QuikRuler III displays **1:3** on line 2 with the flashing cursor positioned over the 3.

- 3 Change the scale by clicking on a number on the QuikRuler Menu. For example, click on  if the desired scale is 1 cm = 5 km.
- 4 When the drawing scale is larger than 1:1, use a decimal value. If the scale were 5:1, you would divide both sides of the ratio by 5, and click on the   buttons, so the scale reads **1:.2**.

In another example, if the drawing scale is given as 1/8 in = 1 ft, you would multiply both sides of the equation by 8, and click on the  button so that the QuikRuler scale reads **1:8**.

- 5 Click on the  button to save your setting, or select another option or function to save your setting and activate the selected function.

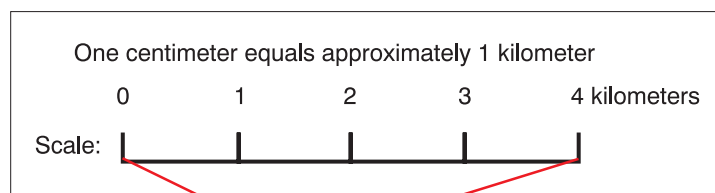
**Note**

See Appendix B for a list of commonly used scales and their decimal equivalents.

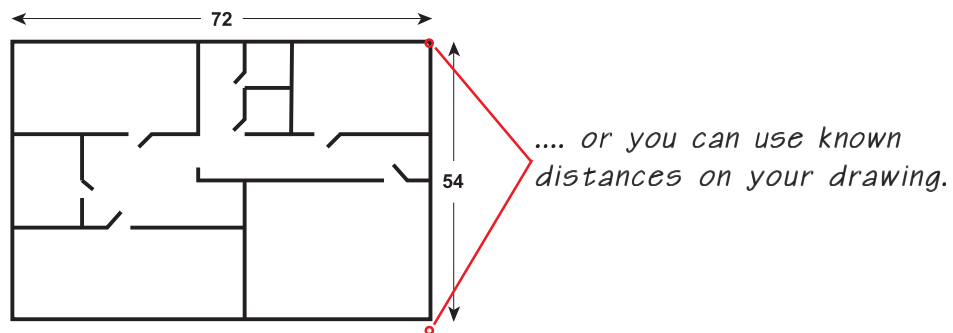
## Automatically Setting the Scale

On maps and many other types of drawings, a scale diagram can be found in the drawing's legend. You can use this diagram to set the measurement scale automatically. You simply mark the starting and ending points of the legend and tell QuikRuler the distance between the two points.


On other drawings, you can set the scale automatically using a straight surface in the drawing that is of a known length. Again, you mark the starting and ending points of the surface and tell QuikRuler III the distance between the two points.



*You can set the scale automatically using a map's legend ...*

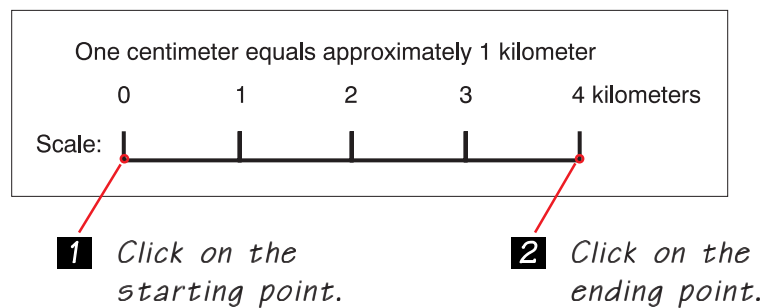


## Set the Scale Automatically

- 1 Click on the  button to activate the *Auto Scale* function.
- 2 Follow the prompts that QuikRuler III displays to select the starting and ending scale points.


For example, using the illustration of the map legend shown below, you would select the point just below the **0** as the *starting point*, and the point just below the **4** as the *ending point*.

*To set the scale automatically from the legend...*

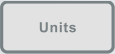




QuikRuler III prompts you for **Distance** (units).

- 3 Use the number buttons on the QuikRuler Menu to indicate the distance between the two points you selected.



Referring to the map legend above, you would click on  to tell QuikRuler III that the distance between the two points is 4 kilometers—*kilometers* having been previously established as the unit of measure.

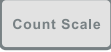
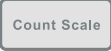


**You must first use the  function to specify that your measured values are in *centimeters* and displayed values are in *kilometers*.**

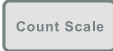
- 4 Click on the  button to save your setting, or select another option or function to save your setting and activate the selected function.
- 5 To view the current Auto Scale setting, click on the  button.

## Setting the Counting Scale

You can use QuikRuler's  function to count areas or other components on your drawing. For example, if you are using QuikRuler III to estimate how much electrical wiring will be required for a building, you could use the  function to count how many electrical outlets will be needed. See *Counting Drawing Elements* on page 23 for details.



Normally, QuikRuler III counts by ones. However, you can change the scale to something else using the  function. For example, you can use the  function to tell QuikRuler III to count by fives, tens, or some other value—even fractions.


## Change the Counting Scale

- 1 Click on the  button to activate the *Count Scale* function.

QuikRuler displays the current counting scale under the flashing cursor.

- 2 Click on the appropriate number on the QuikRuler Menu.

For example, click on the  and  buttons if you want to count by tens.


- 3 Click on the  button to save your setting, or select another option or function to save your setting and activate the selected function.

## Measurements

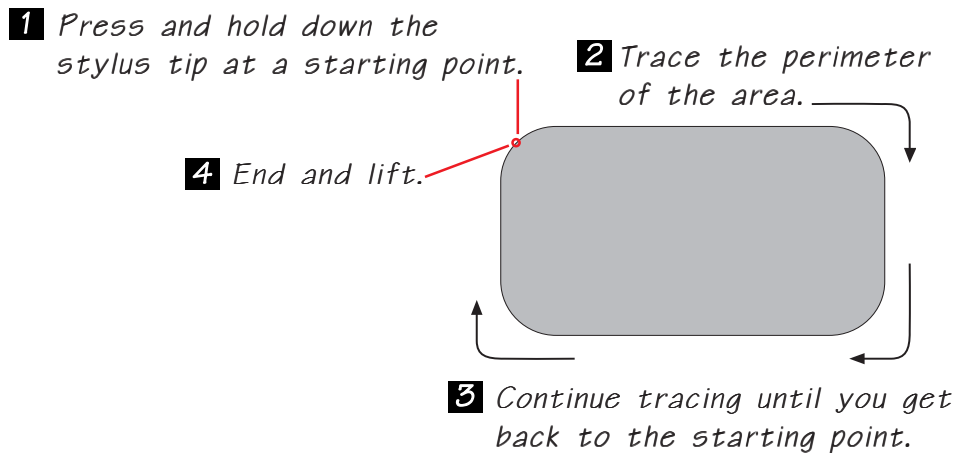
The following sections describe how to use QuikRuler III to measure the components of your drawing.

### Measuring the Size of an Area

QuikRuler III can instantly calculate the size of an area on your drawing. Follow these steps:

- 1 Click on the  button on the QuikRuler Menu to activate the Area calculation function.
- 2 Press and hold down the stylus tip on the outer edge of the area you want to measure.
- 3 While still holding the stylus tip down, trace around the perimeter of the area with the stylus.
- 4 Lift the stylus tip when you have finished tracing the area.

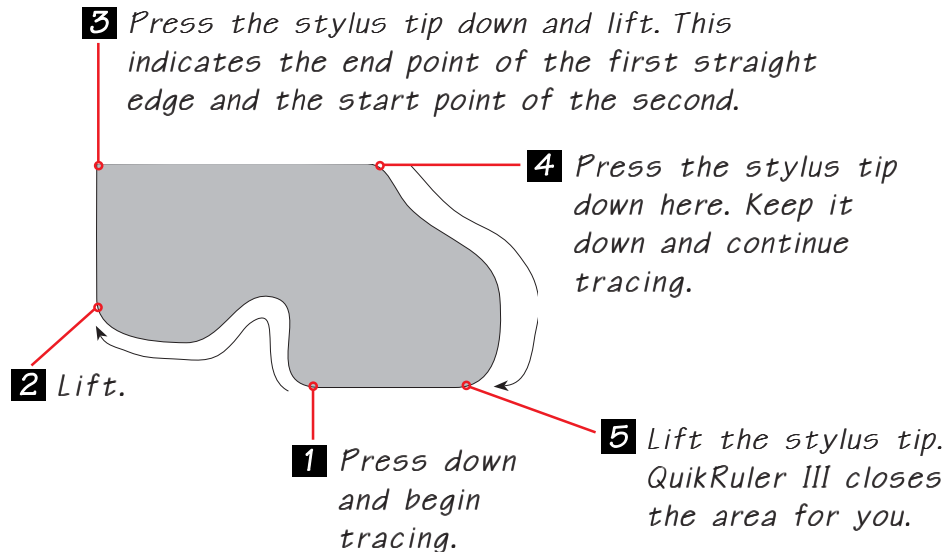
QuikRuler III displays the size of the area in the units you specified.



## Area Shortcut

If the area you are measuring has some straight edges, you can use a shortcut when calculating the size of the area:

- 1 Trace the curved portion of the area, as previously described, by pressing the stylus tip down and following the area's perimeter.
- 2 When you reach a straight edge, lift the stylus tip at one end of the edge and press it back down at the other end.

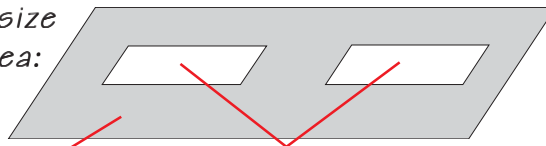


## Adding or Subtracting Areas

After calculating the size of an area, you can add an additional area to it, or subtract another area from it. For example, suppose you are estimating the amount of paving material that will be needed for a parking lot. You would first measure the size of the entire lot, then subtract the sizes of the areas within the lot that will not be paved.

To calculate the size of the shaded area:

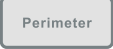
- 1** Measure the entire area first.
- 2** Then, subtract these areas.



- 1 Measure the entire area, as described in the previous sections.
- 2 Click on the  **+** or  **-** button to indicate an area is going to be added or subtracted, respectively.
- 3 Measure the area to be added to, or subtracted from, the first area.
- 4 If necessary, repeat the previous two steps to add or subtract additional areas.
- 5 Click on the  **=** button to calculate the total.

## Measuring the Length of a Perimeter


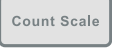
QuikRuler can instantly calculate the length of an area's perimeter.

- 1 After measuring an area, click on the  button to display the length of the area's perimeter.





**Only the perimeter of the most recently measured area is displayed. Perimeters of multiple areas are not summed unless the areas are measured in Perimeter Mode.**

## Counting Drawing Elements

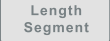
Use the  function to count the elements of your drawing, such as rooms, or walls, or electrical outlets. You can count at any time, even while you are using another function. Use the  function to set the counting scale as described on page 20.


- 1 Press the gray button on your stylus if you want to increment the current count in the background while you are using another function.

Or,

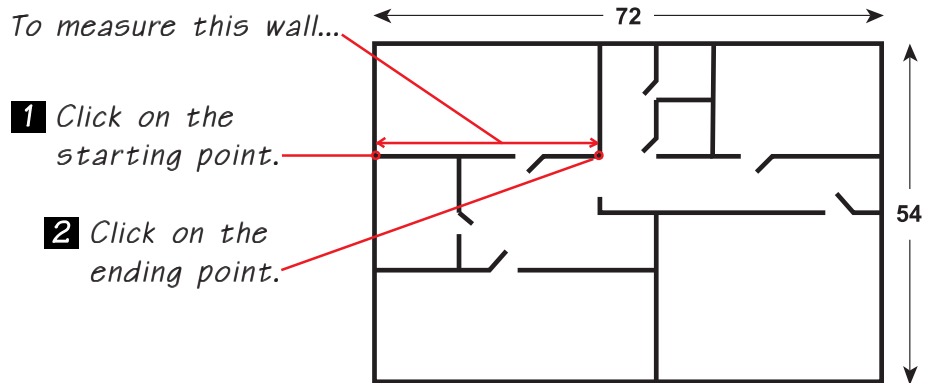
- 1 Click on the  button on the QuikRuler Menu to activate the *Count* function. QuikRuler III displays the current count.
- 2 Continue the current count either by touching the pen tip to the elements you are counting in the drawing, or by clicking on the gray button on your stylus.
- 3 To initiate a new count, click on the  button to zero out the count, and then click on the first element on the drawing to be included in your new count. Continue counting by clicking the stylus' gray button, or by clicking directly on the elements in the drawing with the pen tip to add them to the count.


## Measuring a Straight Segment

Use the  function to measure the length of a straight segment.

- 1 Click on the  button.
- 2 Follow the prompts that QuikRuler III displays to select the starting and ending points of the segment.

QuikRuler III displays the length of the segment.





- 3 To measure another segment, click on its starting and ending points.  
You do not have to click on the  button first.

**Note** Each measured segment is automatically summed with previously measured segments when in Length Segment Mode.

- 4 To start a new sum, click on the  button.

## Measuring a Continuous Length

Use the  function to measure a curved length.

- 1 Click on the  button.
- 2 Press the stylus tip down on the starting point of the length and hold.
- 3 Trace along the length of the segment until you reach the ending point.
- 4 Lift the stylus tip.

QuikRuler III displays the length of the line.

To measure the curved line below...

- 1 Press the stylus tip down on the starting point.
- 2 Hold down and trace along the length until you get to the ending point.






- 3 Lift the stylus.

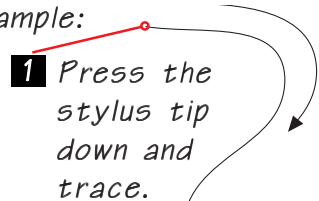
- 5 If the segment you are measuring is a straight line, click on the starting point of the line, lift up the stylus, and click on the ending point.

## Adding or Subtracting Lengths

To add or subtract lengths, follow these steps:


- 1 Measure the first length.
- 2 Click on the  or  button.
- 3 Measure the next length.
- 4 If necessary, repeat the previous two steps to add or subtract additional lengths.
- 5 Click on the  button to display the length total.

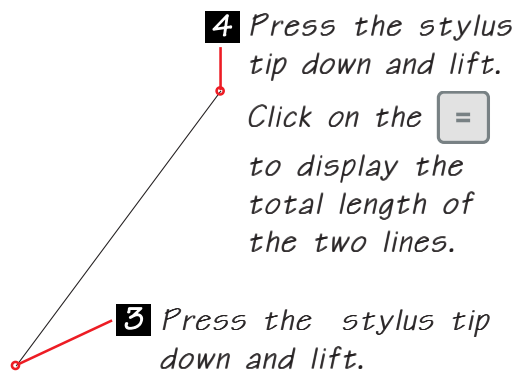
For example:




- 1 Press the stylus tip down and trace.

- 2 Lift stylus.

Click on the .



- 4 Press the stylus tip down and lift.

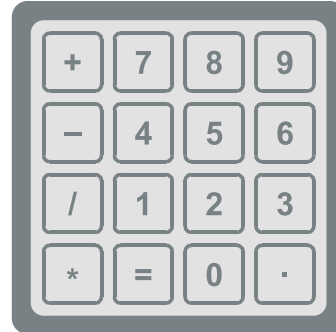
Click on the  to display the total length of the two lines.

- 3 Press the stylus tip down and lift.







## Using QuikRuler III as a Calculator

You can use the arithmetic operators and the numeric keypad buttons on the QuikRuler Menu to perform calculator functions.

*Use these keypad buttons to perform calculator functions.*



You can use the calculator to transform your measurements in various ways. For example, suppose you are using a drawing to estimate the amount of carpeting that will be required for an entire floor of an office building. You want to add 5 percent to the measurement, to account for waste, mistakes, and so on. You would follow these steps:

- 1 Measure the area where carpeting is required.
- 2 Click on the      buttons.
- 3 Click on the  button to display the total.


You can also use the QuikRuler Menu numeric keypad as a traditional calculator to add, subtract, multiply, and divide numbers independently of your measurements. You can do this at any time, even while you are using QuikRuler III functions.

## Editing Data on the Display

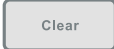

QuikRuler III provides several ways of editing and correcting the data on the display.

### Correcting Mistakes When Accumulating Measurements


When you are accumulating measurements for areas and lengths, use the

 function to clear the current measurement. In addition, you can use this function to correct mistakes made while accumulating measurements.


Follow the steps below when you need to fix a mistake that occurred while you were adding the measurements of several areas. You can use the same procedure to fix mistakes made while accumulating measurements for lengths.

- 1 Click on the  button to clear the area you are currently measuring from the QuikRuler III display.
- 2 Click on the  button.


QuikRuler III displays the size of the area you have already calculated.

- 3 Measure the rest of the area, or areas. Click on the  button to display the total when you are done.

### Clearing the Total

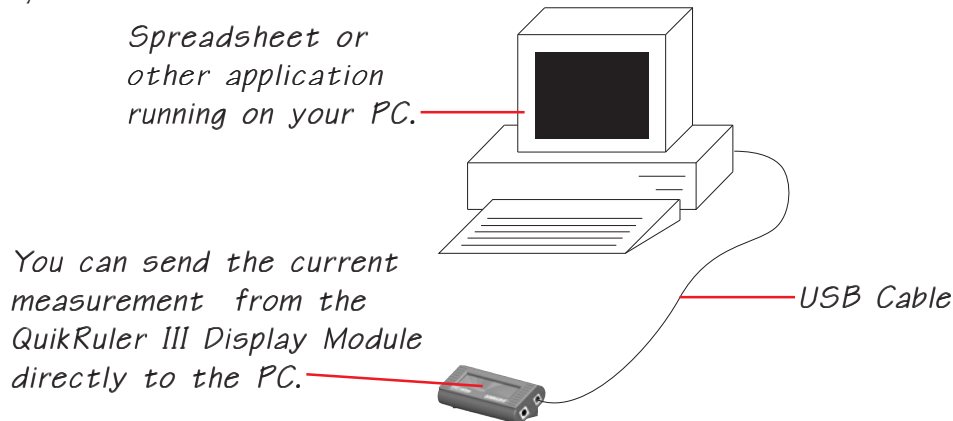
You can clear the total that is on the second line of the display at any time. Click on the  button to clear the total.

### Correcting Numeric Entries


When you are entering numbers, you can delete the last number you entered by clicking on the  button. It will delete the last digit you entered.

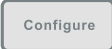
## Sending Data to your PC


You can send data directly from the QuikRuler III display to your computer via a USB connection. The data can be input to any program running under Windows 98se, Me, 2000, or XP. Contact Technical Support for information about connecting the QuikRuler III to other operating systems.

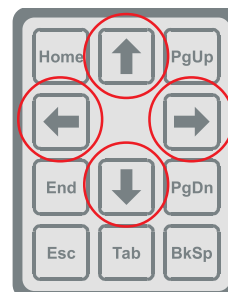


### Send Data from QuikRuler III to PC

- 1 Make sure the cursor is positioned in the application where you want to insert the measurement from QuikRuler III.
- 2 Click on the  button on the QuikRuler Menu, or on the black button on your stylus, (or on the green button on the 4-Button Cursor, or the 7 button on the 16-Button Cursor) to send the number shown on line 2 of the QuikRuler III display to the computer. The value will be entered into your application as it would if you had actually typed the value on your keyboard.

To simplify data entry to your spreadsheet, use the *Last Character* option from the  function. The option is used to set the last character sent, terminating the numeric value on line 2 of the QuikRuler III display. For example, select the **Down Arrow <↓>** or **Enter** option as the last character when you want to enter a column of values to your spreadsheet. This will enter the value in a cell and move the cursor to the cell immediately below the entry, where it will be ready for the next value.

You can navigate around in your spreadsheet application by selecting the cursor-movement buttons. For example, click on the  button to move up one line or cell in your spreadsheet application.



*Use these buttons to navigate in your software application.*

## Messages

QuikRuler III displays a variety of messages as you use its functions. Most of the messages are indicative of normal operation, such as prompts that instruct you how to perform the next step in a process. Other messages can signal a problem.

Message	Meaning
<b>**No Digitizer**</b>	The QuikRuler III is not attached to the digitizer. You must attach it before you can proceed. See the instructions on page 7 for <i>Connecting the Components</i> .
<b>*Memory Failure*</b>	The power-on test detected a memory failure. QuikRuler III will attempt to continue normally with all operations, if you click the stylus tip or cursor anywhere on the digitizer surface.
<b>**Bad Ref Point**</b>	This message will appear during a Relocate Menu operation when an incorrect lower left or lower right reference point is entered. Make sure that the entire QuikRuler Menu is within the digitizer's measuring area. Repeat the Relocate Menu operation when this message appears.
<b>*Menu Off Tablet*</b>	This message will appear during a Relocate Menu operation when the QuikRuler Menu is not positioned entirely within the digitizer's measuring area. Move the menu and repeat the Relocate Menu operation when this message appears.
<b>*Number Too Big*</b>	The number on line 2 of the display is too large for QuikRuler III. Try changing units to reduce the number size when this message appears.

If you receive any of these messages and the above suggestions do not correct the problem, contact GTCO CalComp Technical Support.

## Appendix A

### Transducer Button Functions

Transducer Element	Function
<b>Stylus</b>	
Tip switch	QuikRuler Menu selections
Gray button	Increment Count accumulator
Black button	Send
<b>4-Button Cursor</b>	
Yellow button	QuikRuler Menu selections
White button	Increment Count accumulator
Blue button	Clear
Green button	Send
<b>16-Button Cursor</b>	
0 button	QuikRuler Menu selections
1 button	QuikRuler Menu selections
2 button	QuikRuler Menu selections
3 button	QuikRuler Menu selections
4 button	Increment Count accumulator
5 button	Clear
6 button	Relocate Menu
7 button	Send
8 button	Area
9 button	Length Segment
A button	Length Continuous
B button	Perimeter
C button	Count Mode
D button	Left Arrow
E button	Right Arrow
F button	Total (=)

## Appendix B: Conversion Table

Fraction (In inches)	Decimal Equivalent	Ratio 1"=X' (In feet)
1/2	0.50000	2.0000
1/3	0.33333	3.0000
2/3	0.66667	1.5000
1/4	0.25000	4.0000
3/4	0.75000	1.3333
1/8	0.12500	8.0000
3/8	0.37500	2.6667
5/8	0.62500	1.6000
7/8	0.87500	1.1429
1/16	0.06250	16.0000
3/16	0.18750	5.3333
5/16	0.31250	3.2000
7/16	0.43750	2.2857
9/16	0.56250	1.7778
11/16	0.68750	1.4545
13/16	0.81250	1.2308
15/16	0.93750	1.0667
1/32	0.03125	32.0000
3/32	0.09375	10.6667
5/32	0.15625	6.4000
7/32	0.21875	4.5714
9/32	0.28125	3.5556
11/32	0.34375	2.9091
13/32	0.40625	2.4615
15/32	0.46875	2.1333
17/32	0.53125	1.8824
19/32	0.59375	1.6842
21/32	0.65625	1.5238
23/32	0.71875	1.3913
25/32	0.78125	1.2800
27/32	0.84375	1.1852
29/32	0.90625	1.1034
31/32	0.96875	1.0323

Fraction (In inches)	Decimal Equivalent	Ratio 1"=X' (In feet)
1/64	0.01563	64.0000
3/64	0.04688	21.3333
5/64	0.07813	12.8000
7/64	0.10938	9.1429
9/64	0.14063	7.1111
11/64	0.17188	5.8182
13/64	0.20313	4.9231
15/64	0.23438	4.2667
17/64	0.26563	3.7647
19/64	0.29688	3.3684
21/64	0.32813	3.0476
23/64	0.35938	2.7826
25/64	0.39063	2.5600
27/64	0.42188	2.3704
29/64	0.45313	2.2069
31/64	0.48438	2.0645
33/64	0.51563	1.9394
35/64	0.54688	1.8286
37/64	0.57813	1.7297
39/64	0.60938	1.6410
41/64	0.64063	1.5610
43/64	0.67188	1.4884
45/64	0.70313	1.4222
47/64	0.73438	1.3617
49/64	0.76563	1.3061
51/64	0.79688	1.2549
53/64	0.82813	1.2075
55/64	0.85938	1.1636
57/64	0.89063	1.1228
59/64	0.92188	1.0847
61/64	0.95313	1.0492
63/64	0.98438	1.0159

**Scale to convert: 3/16" = 1'**

Make both sides the same unit of measure (inches):  $3/16" = 12"$

Multiply both sides by the denominator (16) to get eliminate the fraction:

$$3/16 * 16 = 12 * 16 \quad \text{Result: } 3 = 192$$

Divide both sides by the numerator (3) to get the ratio:  $3/3 = 192/3 = 64"$

Divide the value by the number of inches in a foot (12) to convert the value to feet:  $64/12 = 5.33$

So, in 3/16" scale, 1 inch is equal to 5.33 feet.

## Appendix C:

### Regulatory Statements

#### Radio Frequency Energy Notice

This equipment has been tested and found to comply with the limits of a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Reorient or coil cables.
- Consult the dealer or an experienced Radio/TV technician for help.



**Any cables the user adds to the device must be shielded to be in compliance with the FCC standards. Any unauthorized modification to this device could result in the revocation of the end user's authority to operate this device.**

#### Canada

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

*Le présent appareil numérique n'émet pas bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe A prescrites dans le règlement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada.*

**Declaration of Conformity**

The “CE” mark on this device indicates compliance under the EMC 89/336/EEC Directive.

Declaration of conformity according to ISO/IEC Guide 22 and EN 45014

**Manufacturer’s Name:** GTCO CalComp, Inc.  
**Manufacturer’s Address:** 7125 Riverwood Drive  
 Columbia, MD 21046  
 U.S.A.  
**Importer’s Name:** GTCO CalComp GmbH  
**Importer’s Address:** Kreiller Strasse 24  
 Munich 81673  
 Germany

declares, that the product

**Product Name:** QuikRuler III  
**Model Number:** QuikRuler III  
**Product Options:** All

conforms to the following product specifications:

**EMC:** EMC Directive 89/336/EEC and amendment 92/31/EEC  
**Emissions Testing:**  
 EN 60590-1  
 EN 55022: 1998 Class A  
 EN 61000-3-2 Harmonics &  
 EN 61000-3-3 Flicker  
**Immunity Testing:**  
 EN 55024: 1998 including:  
 EN 61000-4-2; ESD  
 EN 61000-4-3; Radiated Immunity  
 EN 61000-4-4; EFT  
 EN 61000-4-5; Surges  
 EN 61000-4-6; Conducted Immunity  
 EN 61000-4-8; Magnetic Immunity  
**RoHS:** “-R” labelled products conform to DIRECTIVE  
 2002/95/EC. These products are RoHS-compliant.

**Supplementary Information**

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC.

<u>Scottsdale, Arizona, U.S.A.</u>	<u>01-18-2008</u>	<u>Dana Doubrava</u>
Location	Date	Engineering Manager

**European Contact:**

GTCO CalComp GmbH	Tel: + 49 (0) 89 370012-0
Kreiller Strasse 24	Fax: + 49 (0) 89 370012-12
Munich 81673	
Germany	



この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

## Bescheinigung des Herstellers/Importeurs

Hiermit wird bescheinigt, dass der/die/das

3036R

(Gerät, Typ, Bezeichnung)

im Übereinstimmung mit den Bestimmungen der

Vfg 1046/1984

(Amtsblattverfügung)

Funk-Entstört ist.

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

GTCO CalComp, Inc.

(Name des Herstellers/Importeurs)

Dieses Gerät wurde einzeln sowohl als auch in einer Anlage, die einen normalen Anwendungsfall nachbildet, auf die Einhaltung der Funk-entstörbestimmungen geprüft. Es ist jedoch möglich, dass die Funk-entstörbestimmungen unter ungünstigen Umständen bei anderen Gerätekombinationen nicht eingehalten werden. Für die Einhaltung der Funk-entstörbestimmungen seiner gesamten Anlage, in der dieses Gerät betrieben wird, ist der Betreiber verantwortlich.

Einhaltung mit betreffenden Bestimmungen kommt darauf an, dass geschirmte Ausführungen gebraucht werden. Für die Beschaffung richtiger Ausführungen ist der Betreiber verantwortlich.

## European Union WEEE Directive

The manufacture of this equipment required the extraction and use of natural resources. It may contain hazardous substances that could impact health and the environment.

- In order to avoid the dissemination of the hazardous substances into the environment and to diminish the pressure on our natural resources, we encourage you to return this product to the appropriate take-back system facility. These facilities reuse or recycle most of the materials in this equipment in a responsible way.
- The crossed-out wheeled bin symbol below invites you to use these take-back systems.
- If you need more information about the collection, reuse and recycling systems in your area, please contact your local or regional waste authority.
- Further information about the responsible end-of-life management of this and other GTCO CalComp products is available on our Web site at [www.gtccalcomp.com](http://www.gtccalcomp.com).



### European Contact:

GTCO CalComp GmbH  
Kreiller Strasse 24  
81673 Munich  
Germany

Tel: + 49 (0) 89 370012-0

Fax: + 49 (0) 89 370012-12

## Appendix D

### Limited Warranty for the QuikRuler III

GTCO CalComp, Inc. warrants these products to be free from defects in material and workmanship under the following terms. Complete and return the enclosed warranty registration card to ensure that your product is covered with this warranty.

#### Coverage

Parts and labor are warranted for two (2) years from the date of the first consumer purchase. This warranty applies to the **original consumer purchaser only**.

Within the European Union, the warranty period is two (2) years, as mandated by the EU. Contact your local dealer or distributor for additional warranty information.

A nominal Warranty Handling Fee will be charged after the first year of use and calculated from the date of original consumer purchase. This payment may be made by Visa, MasterCard or American Express. A copy of the sales receipt or invoice will be required for warranty verification.

#### Conditions

Except as specified below, this warranty covers all defects in material or workmanship in the products. The following are not covered by the warranty:

- 1 Any product on which the serial number has been defaced, modified or removed (if applicable).
- 2 Damage, deterioration or malfunction resulting from:
  - a Accident, misuse, abuse, neglect, fire, water, lightening or other acts of nature, unauthorized modification for any purpose, unauthorized product modification, or failure to follow instructions supplied with the product.
  - b Repair or attempted repair by anyone not authorized by GTCO CalComp.
  - c Any damage in shipment of the product (claims must be presented to the carrier).
  - d Any other cause which does not relate to a manufacturing defect.
3. Any product not sold or leased to a consumer within six months of GTCO CALCOMP's original sale date.

GTCO CalComp will pay all labor and material expenses for covered items, but we will not pay for the following:

- 1 Removal or installation charges.
- 2 Costs for initial technical adjustments (set up), including adjustment of user controls.
3. Certain shipping charges. (Payment of shipping charges is discussed in the next section of this warranty.)
- 4 Packaging costs. (Customers should keep their boxes.)

#### Warranty Service Procedures

- 1 To obtain service on your GTCO CalComp product, contact the Technical Support Department to receive a Return Material Authorization Number (RMA#) and shipping instructions by calling:  
In United States: (410) 312-9221 (EST)  
In Europe: +49 (0) 89 370012-0 (CET)
- 2 Ship the product to GTCO CalComp with the RMA# marked clearly on the outside of the box. Without a clearly marked RMA# on the shipping box, GTCO CalComp reserves the right to refuse shipment.
- 3 Although you must pay any shipping charges to ship the product to GTCO CalComp for warranty service, GTCO CalComp will pay the return shipping charges for ground shipment. Other shipping options are available at an additional fee.
4. Whenever warranty service is required, the original dated sales invoice (or a copy) must be presented as proof of warranty coverage, and should be included in shipment of the product. Please also include your name, address, telephone number, fax number, email address, and a description of the problem.
5. If GTCO CalComp determines that the unit is not defective within the terms of the warranty, the consumer shall pay the cost of all freight charges, as well as any repair charges.

#### Technical Support

Web-based Technical Support is available free of charge at: [www.gtcocalcomp.com](http://www.gtcocalcomp.com), where current driver releases, as well as comprehensive technical support, troubleshooting, Technical Bulletins and FAQs can be found.

Please contact our Technical Support Department:

In United States: (410) 312-9221 (EST)  
 In Europe: +49 (0) 89 370012-0 (CET)

You can also fax your request to:

In United States: (410) 290-9065 (EST)  
 In Europe: +49 (0) 89 370012-12 (CET)

#### Disclaimer of Unstated Warranties

The warranty printed above is the only warranty applicable to this purchase. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. Assuming the warranty above stated is otherwise applicable, it is expressly understood and agreed that GTCO CalComp's sole liability whether in contract, tort, under any warranty, in negligence or otherwise shall be for the repair or replacement of the defective parts and under no circumstances shall GTCO CalComp be liable for special, indirect or consequential damages. The price stated and paid for the equipment is a consideration in limiting GTCO CalComp's liability.

#### Notice

Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights, which vary from state to state, or province to province.

To obtain service on your GTCO CalComp product, call our Technical Support Department at (410) 312-9221 (EST), or fax us at (410) 290-9065 (EST); in Europe call +49 (0) 89 370012-0 (CET), or fax us at +49 (0) 89 370012-12 (CET).

We can also be contacted through our Web site at [www.gtccalcomp.com](http://www.gtccalcomp.com).

**Important!** All products returned to GTCO CalComp for service must have prior approval in the form of a Return Merchandise Number (RMA#), which can be obtained by calling the Technical Support Department.



#### Corporate Headquarters

7125 Riverwood Drive  
 Columbia, Maryland 21046  
 Tel: 410.381.6688  
 Support: 410.312.9221  
 Sales: 800.344.4723  
 Fax: 410.290.9065

#### European Headquarters

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 81673 Munich  
 Germany  
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 Fax: + 49 (0) 89 370012-12

[www.gtccalcomp.com](http://www.gtccalcomp.com)

Support: 410.312.9221

## QuikRuler III™

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