



Instruction 1509-9002 Software Manual

Rev. 1 - February 2011



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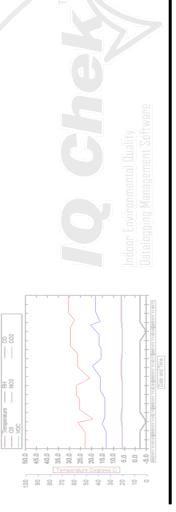


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IMPORTANT NOTE

READ AND UNDERSTAND THIS MANUAL PRIOR TO USING THIS SOFTWARE.

THIS DATALOGGING SOFTWARE IS DESIGNED TO PROVIDE THE USER WITH A POWERFUL TOOL TO VIEW AND MANIPULATE LOGGED DATA TO VIEW TRENDS IN MONITORED AIR QUALITY.

THIS INSTRUMENT HAS <u>NOT</u> BEEN DESIGNED TO BE INTRINSICALLY SAFE IN HAZARDOUS OR EXPLOSION-RATED ENVIRONMENTS. FOR YOUR SAFETY, <u>**DO NOT**</u> USE IT IN AREAS CLASSIFIED AS HAZARDOUS AREAS (E.G., EXPLOSION-RATED ENVIRONMENTS).

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PURCHASE DATE:	
PURCHASED FROM:	

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IQ CHEK™ END USER LICENSE AGREEMENT

End User License Agreement For ONE Computer

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1. OVERVIEW

1.1. General Description

Thank you for purchasing the IQ Chek[™] software package to use in conjunction with the IEQ Chek[™] or Comfort Chek[™] 500 indoor air quality monitors. These instruments are easy-to-use monitoring and information recording devices for monitoring trends in air quality. This manual will guide you through the installation, use, and functionality of the IQ Chek[™] software program.



Figure 1-1. IQ Chek™ Software CD with IEQ Chek™ and Comfort Chek™ 500

IEQ Chek[™] and Comfort Chek[™] 500 can reliably record time-based information, which can be downloaded via the USB port located on the right side of the instrument. Any computer capable of running Microsoft Windows XP or higher (with an available USB communications port) can accommodate the IQ Chek[™] software. For faster downloading speed from the IEQ Chek[™], it is recommended to use an SD card reader. Downloading directly from the instrument may be slow and time consuming.

The Comfort Chek[™] 500 instrument is a lower-cost instrument designed to provide greater value to the end user. It is manufactured with internal memory. The sample rate can be adjusted using the supplied software. The supplied USB cable must be used to download the logged information to the PC.

Read and understand this manual before using IQ Chek[™]. Our technical staff can assist you with any installation and operational problems you might encounter. For assistance, call our toll free number 800-736-4666.

1.2. IQ Chek[™] Shipping Checklist

This checklist ensures that you have received everything required to operate the IQ Chek™ PC software. If you do not receive any of the items listed below, contact the factory immediately.

- IQ Chek[™] software CD (1509-0019)
- USB communications cable
- Software manual
- SD flash card reader and 2.0GB SD flash card (IEQ Chek™ instrument only)¹
- Other specified accessories (see original sales order and comments below)

Date: _____ Checked by:

For more information and technical support, contact Bacharach.

BACHARACH, INC. 621 HUNT VALLEY CIRCLE NEW KENSINGTON, PA 15068-7074 USA

1-800-736-4666
724-334-5000
724-334-5001
help@MyBacharach.com
www.MyBacharach.com

¹ These items pertain to the IEQ Chek datalogging kit (1509-0001).

2. SOFTWARE INSTALLATION

Insert the IQ Chek[™] CD and follow the instructions.

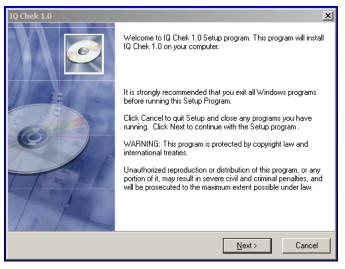


Figure 2-1. IQ Chek™ Installation Welcome Screen

Accept the license agreement by clicking Yes to move on.



Figure 2-2. IQ Chek™ License Agreement Screen

Use the **Browse** button to locate your installation folder, then click <u>Next</u> >.

IQ Chek 1.0	×
Destination Location	6
Setup will install IQ Chek 1.0 in the following folder.	
To install into a different folder, click Browse, and select another folder.	
You can choose not to install IQ Chek 1.0 by clicking Cancel to exit Setup.	
Destination Folder C:\Program Files (x86)\Q Chek Browse	
Wise Installation Wizard®	ancel

Figure 2-3. IQ Chek™ Destination Location Screen

Click the **<u>N</u>ext >** button to start the installation process.

IQ Chek 1.0	×
Start Installation	C
You are now ready to install IQ Chek 1.0.	
Press the Next button to begin the installation or the Back button to reenter the installatio information.	n
Wise Installation Wizard®	
< <u>B</u> ack Next> Car	ncel

Figure 2-4. IQ Chek™ Start Installation Screen

Files will be copied to your PC. Wait for the progress screen to complete (or click **Cancel** to abort).



Figure 2-5. Installation in Progress

Complete the installation and exit by clicking the **<u>Finish</u> >** button. The IQ ChekTM icon will appear on your desktop.

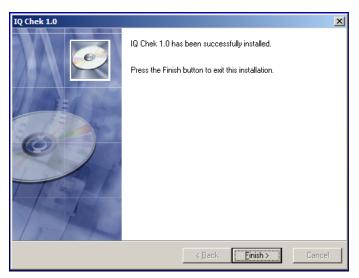


Figure 2-6. Installation Complete Screen



Figure 2-7. IQ Chek™ Desktop Icon

3. OPERATION

3.1. Connecting Instruments to the PC

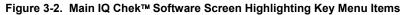
Connect a supported Bacharach indoor air quality monitoring device to your PC with the supplied USB cable. The PC will detect the instrument and, if connected for the first time, the PC will indicate "Found New Hardware" as shown below.



Figure 3-1. Found New Hardware and Driver Installation Messages

After the Add New Hardware/Driver Installation process is complete, double click on the IQ Chek[™] icon on your desktop to start the IQ Chek[™] program. From the main IQ Chek[™] screen[™], you can connect to your device by clicking on **Connect To Detector(s)** button (shown below).

IQ Chek 1.0					
File					
Open Graph File Open CSV File Co	nnect To D	etector(s)			
	🔊 10 Chek 1.	0			
	File				
		File Open CSV File Connect To D	etector(s)		
Open Graph File	Summary 1				
To open and select		Memory Card Logger Setup Real T			
	Sensor	Minimum	Maximum	Units	
existing IQ Chek™ graph	Temperatu RH	re 20 0	130	Deg F	
files (.YVG format).	CO	0	50	PPM	
	C02	0	5000	PPM	
Open CSV File	002	0	3000	11.0	
To open and select CSV					
files from the SD card					
reader (.CSV format).					
Connect to Detector(c)					
Connect to Detector(s)					
Establishes a					
communications	Instrument	Clock			
connection between the	Set instrum	ent time and date to match the time			
PC and the physically-	and date o	f this computer	Date: January 2	28, 2011 Time: 10:49:37	
connected instrument(s)					
(via USB cable).					
	Connected				
l l					



3.2. Real Time Readings

IQ Chek 1.0		
File		
Open Graph File Open CSV File	Connect To Detector(s)	
TA1012K00366		_D×
Summary Memory Card Logger S	Setup Real Time Readings	1
Temperature	74.8	Deg F
RH	20.4	%
со	0.5	PPM
CO2	840	PPM
onnected		

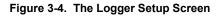
To access live readings from the instrument, click on the Real Time Readings tab.

Figure 3-3. The Real Time Readings Tab

3.3. Logger Setup

To access the Logger Setup Screen, click on the **Logger Setup** tab. Note that this tab is the *only* way to setup the logging parameters in the Comfort Chek[™] 500.

🕑 IQ Chek 1.0			
File			
Open Graph File Open CSV File Connect To Detector(s	:)		
YA1012K00366			
Summary Memory Card Logger Setup Real Time Reading	ngs		
Sample Interval			
1 minute	Location ID		
Logging Start	C Do not use a loca		
Run logger when instrument starts Start Logger Manually	O Do not use a loca		
C Pick a time and date:	LOCATION	Edit	
January 28, 2011 12:01 PM	C LOCATION	Edit	
Logging End	C LOCATION	Edit	
 Log until the memory card is full 	C LOCATION	Edit	
C Log a specific number of samples:	O LOCATION		
100	C LOCATION	Edit	
Pick a time and date: January 28, 2011 12:01 PM	C LOCATION	Edit	
Save Settings	Refre Settir		
			.::
Connected			.:



3.4. Retrieving Data from the IEQ Chek[™]

Click on the **Memory Card** tab (see Figure 3-5) to retrieve data from the card. A progress bar will show the number of files retrieved from the memory card and will appear on the screen after completion. The user can select one or more specific files to plot on the graph screen.

Click on the **Retrieve File from Flash Card** button (see Figure 3-5) after selecting the desired file. The progress bar shows the progress as data is received.

🔊 IQ Chek 1.0	×
File	
Open Graph File Open CSV File Connect To Detector	(s)
Summary Memory Card ogger Setup Real Time Read	ings
Number Of CSV Files On Card: 23 YA00366 06 Dec 10 10 54 CSV YA00366 07 Dec 10 11 01 CSV YA00366 07 Dec 10 11 45 CSV YA00366 13 Dec 10 05 41 CSV YA00366 13 Dec 10 08 57 CSV YA00366 15 Dec 10 08 39 CSV YA00366 15 Dec 10 12 21 CSV	Start Time (dd/mm/yy): 17/12/10 08:23:12 End Time (dd/mm/yy): 17/12/10 14:23:52 Number Of Records In File: 2165
YA00366 15 Dec 10 12 23.CSV YA00366 17 Dec 10 08 23.CSV YA00366 17 Dec 10 14 37.CSV YA00366 17 Dec 10 14 52.CSV YA00366 20 Dec 10 07 38.CSV YA00366 20 Dec 10 08 55.CSV YA00366 20 Dec 10 10 22.CSV YA00366 20 Dec 10 10 57.CSV YA00366 20 Dec 10 11 37.CSV	File Size (bytes): 119450
YA00366 20 Dec 10 12 43.CSV YA00366 03 Jan 11 11 38.CSV YA00366 07 Jan 11 11 11 11.CSV YA00366 07 Jan 11 11 42.CSV YA00366 14 Jan 11 09 01.CSV YA00366 20 Jan 11 09 01.CSV YA00366 20 Jan 11 09 04.CSV	Retrieve File From Flash Card
Connected	

Figure 3-5. Retrieving Data from an IEQ Chek™ Memory Card

NOTE: Downloading logged files will be very slow using this method. It is recommended to remove the SD card from the IEQ Chek[™] and use a card reader for much faster download speeds.

NOTE: Selecting multiple files allows you to merge graphs onto one plot for review and comparison purposes.

3.5. Retrieving Data from the Comfort Chek[™] 500

Click on the Comfort $Chek^{TM}$ 500 tab to retrieve data from the instrument. A progress bar will show the number of files that will be retrieved from the instrument and will appear on the screen after completion. The user can select one or more specific files to plot for the graph.

🕐 IQ Chek 1.0	
File	
Open Graph File Open CSV File Connect To Detector(s)	
▼YAJ1012C0013	
Summary Comfort Chek 500 Logger Setup Real Time Readings	
Number Of Files In Detector's Memory: 43 YJC0013 15 Dec 10 07 53 Start Date (dd/mm/yy): 17/12/10 08:14 End Date (dd/mm/yy): 28/01/11 14:46 Number Of Samples: 0 YJC0013 15 Dec 10 07 55 YJC0013 15 Dec 10 08 02 YJC0013 15 Dec 10 08 03 YJC0013 15 Dec 10 10 11 YJC0013 15 Dec 10 10 19 YJC0013 15 Dec 10 10 52 YJC0013 15 Dec 10 10 53 YJC0013 15 Dec 10 10 54 	
YJC0013 15 Dec 10 10 57 YJC0013 16 Dec 10 12 46 YJC0013 16 Dec 10 13 00 YJC0013 16 Dec 10 13 17 YJC0013 16 Dec 10 13 34 YJC0013 16 Dec 10 13 34 YJC0013 16 Dec 10 14 22 YJC0013 17 Dec 10 07 33 YJC0013 17 Dec 10 07 39 YJC0013 17 Dec 10 08 08 YJC0013 17 Dec 10 08 14 YJC0013 17 Dec 10 08 14	
Connected	.::

Figure 3-6. Retrieving Data from a Comfort Chek™ 500

NOTE: Selecting multiple files allows you to merge graphs onto one plot for review and comparison purposes.

3.6. Retrieving Data from an SD Card

To retrieve data from an SD card, insert the SD card into your PC (or into the SD card reader and the reader into your PC) and then click on the **Open CSV File** button as shown below. Use the OPEN dialog box to locate and select the desired CSV file. The data will be displayed as a graph.

🔊 IQ Chek 1.0			
File			
Open Graph File	Open CSV File	Connect To Detector(s)]
		/	

Figure 3-7. Retrieving Data from an SD Card

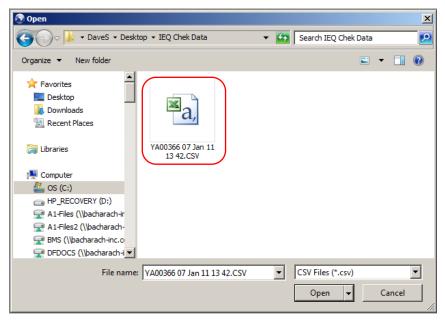


Figure 3-8. Selecting SD Card Location

3.7. Opening Saved .YVG (Graph) Files

Open an existing graph file from your computer by clicking the Open Graph File tab.

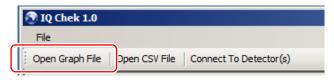


Figure 3-9. Open Graph File Tab

Click on the **Open Graph File** tab and then locate the required graph file(s) (having the .YVG extension) that you want to open. See below.

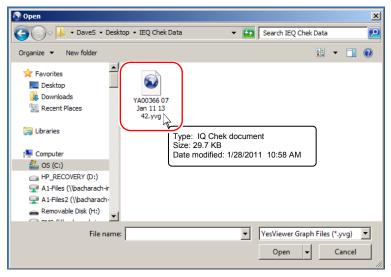


Figure 3-10. Selecting a Graph File to Open

3.8. Graphs

Select the file(s) you would like to graph (through the Open CSV File or Open Graph File buttons) and click the **Open** button. IQ Chek[™] will automatically display the data as a graph. You can view the graph data in various ways and manipulate the displayed graph using the following items.

- Graph Results Toolbar
- Graph Tab
- Statistics Tab
- Data Table Tab

🕑 IQ Chek 1.0
File
Open Graph File Open CSV File Connect To Detector(s)
h
Graph Results H:\YA00366 17 Dec 10 08 23.vvg
Graph Results H:\YA00366 17 Dec 10 08 23.vvg

Figure 3-11. Graph Results Toolbar and Graph, Statistics, and Data Table Tabs

GRAPH TAB: Graph plotting occurs automatically on the Graph tab once user opens the .CSV (data) file or .YVG (graph) file.

STATISTICS TAB: Sample statistical data (available by clicking on the **Statistics** tab) is shown below.

Graph Results H:\YA00366 17 Dec 10 08 23.yvg Image: Constraint of the second seco							
Number Of Samples	Туре	Units	Minimum	Maximum	Variation	Average	
2165	Temperature	Degrees F	68	71.2	3.2	69.8	
2165	RH	%	15	24	9	16.2	
2165	CO	PPM	0	0	0	0	
2165	CO2	PPM	1	2671	2670	732	

Figure 3-12. Sample Statistical Data Screen

DATA TABLE TAB: To see logged data in tabular format, click the Data Table tab. By default, the data is displayed in statistical format.

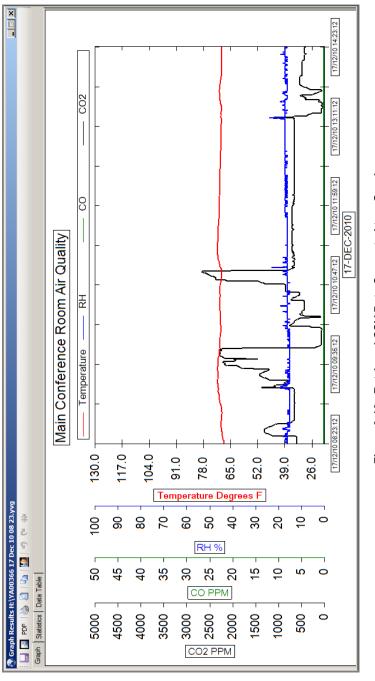


Figure 3-13. Retrieved CSV Data Converted to a Graph

IQ Chek™Software Manual

🕄 IQ Chek 1.0						
File						
Open Graph File	Open CSV File	Connect T	o Detector(s)			
Sraph Results H:\YA00366 17 Dec 10 08 23.yvg						
🔜 🛃 PDF 🛯 🖓 📳 🛄 🔊 (* 44						
Graph Statistics	Data Table					
Date (dd/mm/yy)	Time	Location	Temperature	RH	СО	CO2
17/12/10	08:23:12	None	68	16	0	588
17/12/10	08:23:22	None	68	16	0	588
17/12/10	08:23:32	None	68	16	0	588
17/12/10	08:23:42	None	68	16	0	588
17/12/10	08:23:52	None	68	16	0	588
17/12/10	08:24:02	None	68	16	0	588
17/12/10	08:24:12	None	68.1	16	0	588
17/12/10	08:24:22	None	68.1	16	0	588
17/12/10	08:24:32	None	68.1	16	0	588
17/12/10	08:24:42	None	68.1	16	0	588
17/12/10	08:24:52	None	68.1	16	0	588
17/12/10	08:25:02	None	68.1	16	0	588
17/12/10	08:25:12	None	68.1	17	0	588
17/12/10	08:25:22	None	68.1	16	0	588
17/12/10	08:25:32	None	68.1	16	0	588
17/12/10	08:25:42	None	68.1	16	0	588
17/12/10	08:25:52	None	68.1	16	0	588
17/12/10	08:26:02	None	68.1	16	0	588
17/12/10	08:26:12	None	68.1	16	0	588
17/12/10	08:26:22	None	68.3	16	0	588
17/12/10	08:26:32	None	68.3	16	0	588
17/12/10	08:26:42	None	68.3	16	0	588
17/12/10	08:26:52	None	68.3	17	0	588
17/12/10	08:27:02	None	68.3	17	0	588
17/12/10	08:27:12	None	68.3	16	0	588
17/12/10	08:27:22	None	68.3	17	0	588
17/12/10	08:27:32	None	68.5	16	0	588
17/12/10	08:27:42	None	68.5	16	0	588
17/12/10	08:27:52	None	68.5	16	0	588

Figure 3-14.	Sample	Tabular	Data	Screen
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GRAPH RESULTS TOOLBAR: From the Graph Results toolbar, click on the save button to save the file in YVG format to your PC. When viewing the graph, you can save the file in other formats as well. By clicking on the statistics and data table tabs, the user can see them respectively and save the graphs using the Save Graph icon.

For changing the graph settings, manipulating data, printing, and saving data files into different formats, use the following toolbar items.

lcon	Description	lcon	Description
	Save graph in .YVG format		Copy graph to clipboard
2	Save graph in graphic format		Change graph settings
PDF	Save graph in PDF format	5	Undo previous zoom
3	Opens print dialog box	C"	Redo zoom action
2	Print preview	*	Undo all previous zooms

Figure 3-15. Graph Results Toolbar and Icon Descriptions

NOTE: To zoom into a particular portion of the graph, use the mouse to click and drag a rectangular area to define the zoom area. Use the undo zoom, redo zoom, and undo all buttons with the zoom feature.

The Change Graph Settings button allows the user to customize the graph. Click on the graph icon (Figure 3-16) to display the graph properties dialog (Figure 3-17).



Figure 3-16. The Graph Settings Icon

From this "dashboard", you can perform the following functions.

- Graph Title: Change description, font, and color.
- Background: Select background color of graph area.
- X-Axis: Change description, font, and color of label. Toggle X-axis grid lines and X-axis markers separately.
- Legend: Toggle legend (on/off). If on, select position (top or side), font, and color.
- Units: Show units on X-axis, in legend, or at both locations.
- Data Lines: Allow changes to the data line color of a particular parameter. Allow changes to line style and width to make it more prominent. Toggle the alarm display line. Availability of line markers to differentiate between parameters (useful for distinguishing different data lines on non-color printouts).

Refer to the dashboard (Figure 3-17) for graph settings.

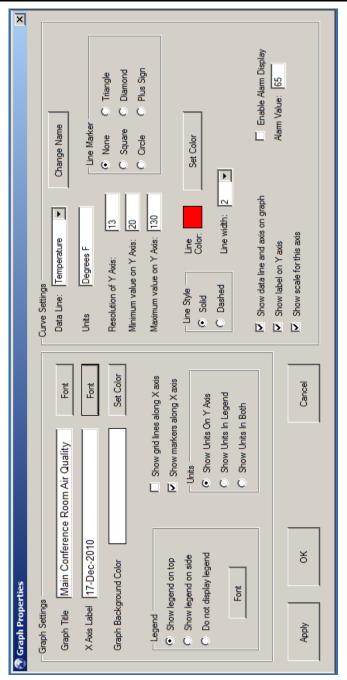


Figure 3-17. Dashboard for Graph Settings

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