



Inquist 7

Calculation scheme software

Inquist Product Manual

Covers version 7.0.04.003

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Main Window

Main Menu Bar

Shared Allows user to open and save schemes to any location on the computer or network, or media device such as a flash drive.

Open Opens Scheme Wizard.

Graph Opens the graphing utility.

Print Prints the active scheme or graph.

Options Opens Options dialog.

Help Opens Help menu.

About Displays product information, including version number.

Status Bar

The status bar is located at the bottom of the main window, and includes Tray icons and an equation calculator.

Tray icons There are 2 tray icons, the scheme icon and the graph icon. They become active when a scheme or graph is opened. Use these to switch between a scheme and graph when both a scheme and graph are opened.

Equation Calculator An expression may be entered in this field and calculated when pressing the Enter key. This field also converts Input and Answer box identifiers to their data when calculating with formulas.

Scheme Assistant

The Scheme Assistant is the blue shaded area in the left side of the window. It contains additional tools to assist in scheme creation.

Analyze Click on Analyze to display an equation in its simplified format.

Clear Clears the formula from the selected Answer box.

Label Borders Wraps a border frame around labels.

Label Font Bold Changes labels to a bold font.

Enter or Edit Formula field User may enter formulas or edit formulas within this field. Click enter to assign the formula to the selected Answer box.

DragDrop Tracker This records when an Input or Answer box is dropped on an operator.

Scheme Wizard

New Scheme Opens a blank scheme.

Open Saved Scheme Contains a list of schemes saved in default location. Click on a scheme name and click Open to open the scheme, or Delete to delete the scheme file.

Open a Sample Click on a name to open a sample.

Choose a template Click on a template design to load the template. Enter data, formulas, and label captions. Users may add additional Input boxes, Answer boxes, and labels.

Scheme Window

Scheme ToolBar Icons

Input Adds an Input box for data to be entered. Input box will position at crosshairs. Click on form to reposition crosshairs. Input boxes can be dragged to different location. Right click on Input boxes to gain focus in order to enter data. Each Input box is identified beginning with I1. Hover mouse over Input box to reveal its identifier.

Label Adds a label for legends or captions to be entered. Label will position at crosshairs. Click on form to reposition crosshairs. Labels can be dragged to different location.

Answer Adds an Answer box for results. Answer box will position at crosshairs. Click on form to reposition crosshairs. Answer boxes can be dragged to different location. Right click on Answer boxes to reveal popup menu. Each Answer box is identified beginning with A1. Hover mouse over Answer box to reveal its identifier

Save Saves the scheme in default folder. Save dialog opens. Enter a name for the scheme in box, or click on an existing scheme from the list to overwrite.

Calculate If new data is entered, click Calculate to recalculate data with the formulas entered.

Answer Options Each time an Answer box is added to a scheme, an answer option appears on the toolbar. The options are numbered 1 through 12, as Each Answer box is identified A1 through A12. Select the desired answer option for results to be assigned to the corresponding Answer box.

Select Data popup menu

Select data by clicking and holding left mouse button and drag a box around Input boxes and/or Answer boxes.

Sum of Selection Adds all selected boxes. Answer appears in MsgBox, or, if selected, an Answer box. Sum formula will generate in Formula Edit box. Click to assign.

Multiply Selection Multiplies all selected boxes. Answer appears in MsgBox, or, if selected, an Answer box. Multiply formula will generate in Formula Edit box. Click to assign.

Average of Selection Averages selected boxes. Answer appears in MsgBox, or, if selected, an Answer box. Average formula will generate in Formula Edit box. Click to assign.

Square Root of Selection Changes the data of each selected box to its square root.

Square of Selection Changes the data of each selected box to its square.

Cosine, Sine, Tangent Operations Changes the data of each selected box to its trigonometric function.

Add to Previous Adds selected boxes to the result in chosen Answer box.

Subtract from Previous Subtracts selected boxes to the result in chosen Answer box.

Multiply to Previous Multiplies selected boxes to the result in chosen Answer box.

Divide from Previous Divides selected boxes to the result in chosen Answer box.

Grouping Box A yellow shaded area will fill selection area. Right click on the form window and choose Undo Box to remove.

Answer Popup Menu

2 Decimal Places Changes the data in Answer box to 2 decimal places.

4 Decimal Places Changes the data in Answer box to 4 decimal places.

Re-Calculate Recalculates the formula in the Answer box.

Formula Data Opens formula dialog. Formulas may be entered in the dialog. Click on Enter or press return key to assign formula. Reveal button reveals formula in the Answer box.

Drag & Drop Operators

The Operators are located on the right side of the scheme window. Select an Answer box option and drag an Input or Answer box to an Operator. The Operator will calculate the data with the data contained in selected Answer box.

Click & Build Equations

To activate this feature, check the Build Equation option located on the scheme toolbar. When activated, additional operators will appear on the right side of window. Input or Answer boxes may be included in the formulas (excluding the Answer box for which was selected for results). Brackets can be included in formulas and are necessary for correct results.

Using Build Equation

1. Select an Answer box by clicking an Answer option. Select Build Equation.
2. Right click on an Input box or Answer box.
3. Click on an Operator.
4. Right click on another Input or Answer box.
5. Repeat until desired operations are met (Use brackets as necessary).
6. Click the equal sign.

For trigonometric functions, click the trigonometric operator first, and then the Input or Answer box requiring the function. Leading and trailing brackets are generated when using Sine, Cosine, and Tangent operators. Leading brackets are generated when using Inverse Sine, Cosine, and Tangent operators. After Input or Answer boxes are included, user must add 2 trailing brackets. This allows the user to add other calculations to the trigonometric function, such as finding an angle when side opposite is divided by hypotenuse using ArcSine with the result.

For square and square root operations, click the Input or Answer box and then the operator. Leading and trailing brackets will be generated. If 2 or more Inputs are to be calculated first, user must place the calculation in brackets, and then click the square or square root operator. Example; $(I2 + I3)SQ$. Once the square or square root operator is selected, other brackets will be generated resulting in $((I2 + I3)SQ)$.

Click the backspace arrow to remove unwanted entries.

Graphing Utility

The graphing utility allows a user to create a pie graph to attach to a scheme.

Open Opens a list of saved graph data. Anytime a graph is sent to a scheme, its data is saved when the scheme is saved. The data file will have the same name as the scheme.

Create Creates the graph from the data entered in data fields.

Clear Clears all data fields.

Send Sends the pie graph to the scheme that is presently open. If no scheme is open, a new scheme will open containing the pie graph.

Data Fields Fields to enter data.

Options

Trigonometry Calculates data in Radians, Gradians, or Degrees.

Back Color Sets the Inquist back color to selected choice.

Label Justify Justifies the label text within its text box to selected choice.

Show Tips at Start-up When checked, a tip dialog will show when Inquist is opened.

Auto Save Graph Data When checked, data entered in the graphing utility will automatically be saved and will be shown in the data fields the next time Graph is opened.

Other

Moving dialog boxes Click the shaded area at top of box and hold left mouse button while moving box.

Scheme Window Popup Right click on a blank portion of the scheme window. A popup menu appears with the options listed below.

1. **Clear all Inputs** Clears data in Input boxes.
2. **Clear all Answers** Clears Answer boxes.
3. **Unselect Answers** Unselects Answer Options.
4. **Recalculate All** Recalculates formulas.
5. **Label Borders** Adds borders to Labels.
6. **Undo Box** Removes Grouping boxes in order they were added.

Valid Entries

Enter data in formulas by the Input or Answer box identifier.

Example: Data in Input 1 enter as I1. Data in Input 2 enter as I2. The formula will use data in that box for calculation. When new data is entered, the new data is calculated using the existing formula. This is formula reuse and saves time compared to a calculator.

Operation	Entry	Example
Addition	+	2 + 7
Subtraction	-	9 - 2
Multiply	*	8 * 9
Divide	/	21 / 7
Exponent	^	7 ^ 3
Root	SQ	(10SQ)
Square Root	R	(100R)
Sine	SIN	(SIN(30))
Cosine	COS	(COS(30))
Tangent	TAN	(TAN(30))
ArcSine	ASIN	(ASIN(.5))
ArcCosine	ACOS	(ACOS(.5))
ArcTangent	ATAN	(ATAN(.5))

Input 1	24	Input 1 squared X the Cosine of Input 2	$(I1SQ) * (COS(I2))$
Input 2	45	Sine of Input 1 and Input 2, then add Answer 1	$(SIN(I1 + I2)) + A1$
Input 3	80	The square of Input 1 and Input 3	$((I1 + I2)SQ)$
Answer 1	.76	ArcSine of Input 1 divided by Input 2	$(ASIN(I1 / I2))$