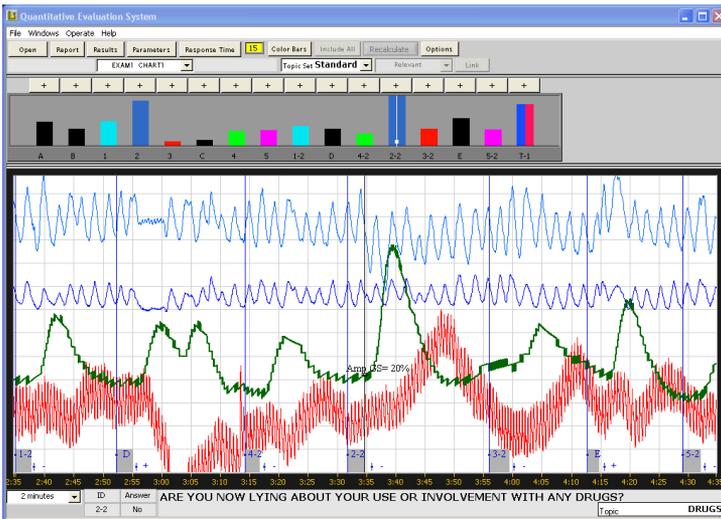


Quantitative Evaluation System (QuEST) User Instructions



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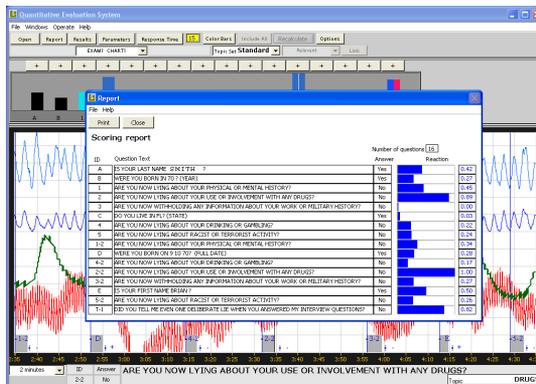
Main Window

Open

Click on **Open** to bring up a chart for viewing. The program will show a window where you can navigate to the file you wish to view. Go to the subject's file (ie. C:\Pffolder\XXXXXXXX where the X's are your subject's file name). Double click to open the file and then double click on Exam 1 (if there has only been one exam for that subject). Next Double Click on Chart 1 and it will appear in the main viewing window.

Report

Once chart is open click on **Report** to show a horizontal bar graph of each question and it's relative strength for the currently displayed chart.



Report Screen

Results

Click on **Results** to display the horizontal bar graph for each chart where the questions are grouped by type or topic, or for all charts together. The graph displays the type of question, the number of questions of that type being evaluated, a bar showing reaction strength along with a reaction strength percentage number and finally a probability number that shows the consistency of the reactions grouped together.

To display multiple charts together click once on the first chart you wish to display the results for and then double click on each additional chart (in the window on the right side of the Results window).

Parameters

Click on the **Parameters** button to show the numerical weight given to each channel and its components for each question on the chart being displayed.

The parameters window displays each channel (EDA, Cardio and Respiration), and additional measurements (Other). Each Channel has three subcomponents as follows:

EDA

- A = Amplitude
- E = Energy
- V = Velocity (front growth speed)

Cardio

- A = Amplitude
- F = Frequency
- DF = Pulse Frequency

Respiration

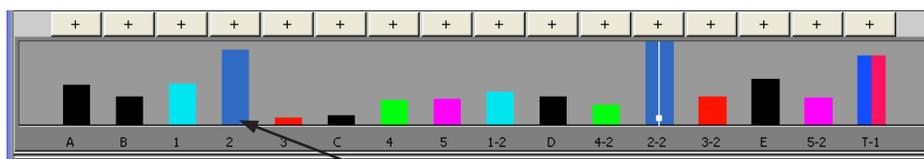
- Amax = Maximum Amplitude
- DT = Duration Time
- Amin = Minimum Amplitude

Others

- BF = Maximum Amplitude of Blood Pressure Signal
- R(T-A) = Difference Between Thoracic and Abdominal Responses
- Ema = Motor Activity Energy (Not currently included in the analysis)

Response Time

Click on the **Response Time** button to modify the length of time that QuEST analyzes each question. The time is selectable from 5 to 30 seconds. You can click on the up and down arrows to modify the time by 1-second increments or click on the seconds displayed to select the time in 10-second increments. The time is measured from the beginning of the question.



Color Bars

Color Bars

Click on the **Color Bars** to modify the default settings for displaying the type and color of each question. The default is set to the Backster standard for color-coding questions. You can modify the settings for your own format by clicking in any of the fields (including the color field) and entering your own selection. Please note that each field must be exact, i.e. If you use 5R for relevant questions in the relevant field you should enter this in one of the 10 **Names** fields, if you use R5 then enter it this way. It is strongly recommended that you mark your relevant and control questions with a R or C respectively when you formulate them in the LXSOFTWARE program. This will allow you to easily display the correct color-coding when you are using different formats or displaying the demonstration or stim test. The same would apply to sacrifice relevant questions, SKY, etc. To add additional topics or types of questions click on any topic field and type in the topic that you wish to display.

Include All: See **Excluding Questions** below

Recalculate: See **Excluding Questions** below

Exit: Click this button to exit **QuEst**

On the second line beneath the menu bar is listed:

1. File Name
2. Current Chart (click on downward arrow to display a different chart in the main window)
3. Format used (taken from the LXSOFTWARE program)
4. Topic Set – either Standard or Custom
5. Topic – shown when using the Custom topic set
6. Link – used to link a selected question with a custom topic

Excluding Questions

To exclude a question from the analysis click on the “+” button above the color bar of that question. The button will push in and change to a minus. When you are finished excluding the question(s) click on **Recalculate**. If at any time you wish to return excluded questions to the analysis click on **Include All**.

Chart Review

The main window displays the chart in 100% view mode when opened for the first time. In the lower left hand corner you will see a drop box displaying “**Fit In Window**” You can click on the downward arrow to change the amount of chart displayed from 100% to 2 minutes of chart time or 1 minute of chart time. To select a specific question for viewing on the chart you can click on its respective color bar. If you click directly on the chart a black line will display the relative GSC amplitude at that point. The gray areas at the bottom of the chart display the question length, the blue vertical lines display the beginning of the question, a small blue box with two vertical dashes above and below it display the answer response with a + or – following.

Underneath the chart display window is located the selected question’s ID or number, the response and the test of the question as well as which topic it is currently associated with.

Custom Topic Sets

When the program is initially started you will be seeing the **Standard Topic Set** which is based on how you have preset the Color Bars window, i.e. Relevant, Control, Neutral, etc. QuEST allows you to switch to a **Custom Topic Set** in which you can link questions on the chart to a topic of your choosing. These custom topics are then displayed in the **Results** window with the horizontal reaction bar chart. To link questions to custom topics click on the downward arrow in the **Topic Set** field and select **CUSTOM**. The field directly to the right of it will become enabled and you can either select a preprogrammed topic or select **New Topic** and type in the topic. Next select the question you want to link to the new topic by clicking on its color bar and then click on **Link**. The new custom topic should appear in the field at the lower right-hand corner of the screen.

User Notes

Write any user notes here for your convenience.

Terms and Conditions

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Phone, Fax, Email or Mail-in Orders

All orders need to be accompanied by a hard copy of your purchase order. All orders must include the following information:

- Quantity
- Part Number
- Description
- Your purchase order number or method of pre-payment
- Your tax status (include tax-exempt numbers)
- Shipping address for this order
- Billing address for the invoice we'll mail when this order is shipped
- Signature and typed name of person authorized to order these products
- Your telephone number
- Your email address
- Your FAX number

Domestic Terms

There is a \$50 minimum order. Open accounts can be extended to most recognized businesses. Net amount due 30 days from the date of shipment unless otherwise specified by us. Enclose payment with the order; charge with VISA, MasterCard, American Express, or pay COD. We must have a hard copy of your purchase order by mail, E-mail or fax. Students, individuals and private companies may call for a credit application.

International Payment Information

There is a \$50 minimum order. Payment must be made in advance by: draft drawn on a major US bank; wire transfers to our account; charge with VISA, MasterCard, American Express, or confirmed irrevocable letter of credit. Proforma invoices will be provided upon request.

Exports

If ordering instrumentation for use outside the USA, please specify the country of ultimate destination, as well as the power requirements (110V/60Hz or 220V/50Hz). Some model numbers for 220V/50Hz will have a "C" suffix.

Quotations

Quotations are supplied upon request. Written quotations will include the price of goods, cost of shipping and handling, if requested, and estimated delivery time frame. Quotations are good for 30 days, unless otherwise noted. Following that time, prices are subject to change and will be re-quoted at your request.

Cancellations

Orders for custom products, custom assemblies or instruments built to customer specifications will be subject to a cancellation penalty of 100%. Payment for up to 100% of the invoice value of custom products may be required in advance. Cancellation for a standard Lafayette Instrument manufactured product once the product has been shipped will normally be assessed a charge of 25% of the invoice value, plus shipping charges. Resell items, like custom products, will be subject to a cancellation penalty of 100%.

Exchanges and Refunds

Please see the cancellation penalty as described above. No item may be returned without prior authorization of Lafayette Instrument Company and a Return Goods Authorization (RGA#) number which must be affixed to the shipping label of the returned goods. The merchandise should be packed well, insured for the full value and returned along with a cover letter explaining the reason for return. Unopened merchandise may be returned prepaid within thirty (30) days after receipt of the item and in the original shipping carton. Collect shipments will not be accepted. Product must be returned in saleable condition, and credit is subject to inspection of the merchandise.

Repairs

Instrumentation may not be returned without first receiving a Return Goods Authorization Number (RGA). When returning instrumentation for service,

please call Lafayette Instrument to receive a RGA number. Your RGA number will be good for 30 days. Address the shipment to:

Lafayette Instrument Company

3700 Sagamore Parkway North

Lafayette, IN 47904, USA.

Shipments cannot be received at the PO Box. The items should be packed well, insured for full value, and returned along with a cover letter explaining the malfunction. An estimate of repair will be given prior to completion ONLY if requested in your enclosed cover letter. We must have a hard copy of your purchase order by mail or fax, or repair work cannot commence for non-warranty repairs.

Damaged Goods

Damaged instrumentation should not be returned to Lafayette Instrument prior to a thorough inspection. If a shipment arrives damaged, note damage on delivery bill and have the driver sign it to acknowledge the damage. Contact the delivery service, and they will file an insurance claim. If damage is not detected at the time of delivery, contact the carrier/shipper and request an inspection within 10 days of the original delivery. Please call the Lafayette Instrument Customer Service Department for repair or replacement of the damaged merchandise.

Limited Warranty

Lafayette Instrument Company warrants equipment manufactured by the company to be free of defects in material and workmanship for a period of one year from the date of shipment, except as provided hereinafter. The original manufacturer's warranty will be honored by Lafayette Instrument for items not manufactured by Lafayette Instrument Company, i.e. resell items. This assumes normal usage under commonly accepted operating parameters and excludes consumable products.

Warranty period for repairs or used instrumentation purchased from Lafayette Instrument is 90 days. Lafayette Instrument Company agrees either to repair or replace, at its sole option and free of part charges to the customer, instrumentation which, under proper and normal conditions of use, proves to be defective within the warranty period. Warranty for any parts of such repaired or replaced instrumentation shall be covered under the same limited warranty and shall have a warranty period of 90 days from the date of shipment or the remainder of the original warranty period whichever is greater. This warranty and remedy are given expressly and in lieu of all other warranties, expressed or implied, of merchantability or fitness for a particular purpose and constitutes the only warranty made by Lafayette Instrument Company.

Lafayette Instrument Company neither assumes nor authorizes any person to assume for it any other liability in connection with the sale, installation, service or use of its instrumentation. Lafayette Instrument Company shall have no liability whatsoever for special, consequential, or punitive damages of any kind from any cause arising out of the sale, installation, service or use of its instrumentation. All products manufactured by Lafayette Instrument Company are tested and inspected prior to shipment. Upon prompt notification by the Customer, Lafayette Instrument Company will correct any defect in warranted equipment of its manufacture either, at its option, by return of the item to the factory, or shipment of a repaired or replacement part. Lafayette Instrument Company will not be obliged, however, to replace or repair any piece of equipment, which has been abused, improperly installed, altered, damaged, or repaired by others. Defects in equipment do not include decomposition, wear, or damage by chemical action or corrosion, or damage incurred during shipment.

Limited Obligations Covered by this Warranty

1. In the case of instruments not of Lafayette Instrument Company manufacture, the original manufacturer's warranty applies.
2. Shipping charges under warranty are covered only in one direction. The customer is responsible for shipping charges to the factory if return of the part is required.
3. This warranty does not cover damage to components due to improper installation by the customer.
4. Consumable and/or expendable items, including but not limited to electrodes, lights, batteries, fuses, O-rings, gaskets, and tubing, are excluded from warranty.
7. Failure by the customer to perform normal and reasonable maintenance on instruments will void warranty claims.
8. If the original invoice for the instrument is issued to a company that is not the company of the end user, and not an authorized Lafayette Instrument Company distributor, then all requests for warranty must be processed through the company that sold the product to the end user, and not directly to Lafayette Instrument Company.

Export License

The U.S. Department of Commerce requires an export license for any polygraph system shipment with an ULTIMATE destination other than: Australia, Japan, New Zealand or any NATO Member Countries. It is against U.S. law to ship a Polygraph system to any other country without an export license. If the ultimate destination is not one of the above listed countries, contact us for the required license application forms.