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Response™ 1 Owners Manual

September 23, 2003

Introduction

Welcome to Response™

Response is software for testing individuals Perception and Reaction Time. It uses input from the steering wheel and pedals found on gaming steering wheel packages. The system gives a demonstration of driving a vehicle and reacting to light stimuli on the computer screen. It is designed to be used in an office environment in front of a computer monitor with the steering wheel mounted in front of the client and the pedals setting on the floor in front of the client.

Each test is recorded automatically and placed into a file for reporting.

System Requirements

- Windows 95/98/me/2000/XP
- Gaming steering wheel or USB 1.1 port for Vericom's hardware.
- 20MB hard drive space
- 64MB RAM
- Windows Media Player installed (for motion video)
- Intel or AMD 166MHz or faster processor
- CD-ROM drive

Installation

See System requirements before starting.

1. Close all Windows applications.
2. Install the steering wheel software. Follow instructions from the manufacturer that came with the steering wheel.
3. Insert Response installation CD into your CD or DVD drive (or unzip the file downloaded from our web site.)
4. If setup doesn't automatically start, then from the Start menu, choose Run.
5. In the Run dialog, type *d:\setup.exe*, where *d* is the letter of your CD or DVD drive. Press Enter. (or

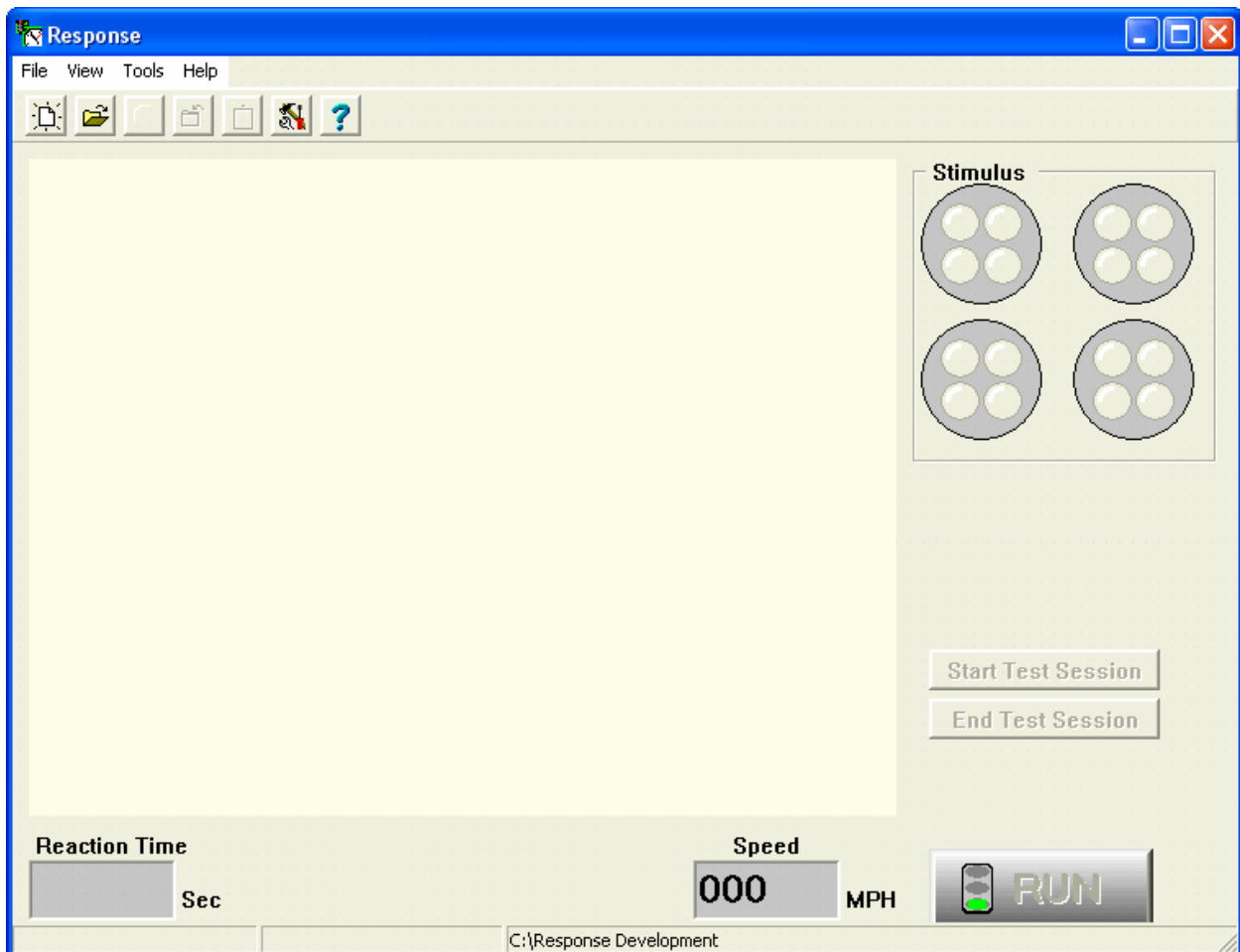
run the Setup.exe program from the .zip file.)

6. The installation program will guide you through the short installation process.
7. Once installation is complete select Start, Programs, Vericom, Response to run the program.

Using Response

Before testing the client, set up any optional settings in the program such as instructor information, client information and scenario settings. The options from the previous test will be used if no settings are changed. The factory defaults will be used if you have never modified the settings.

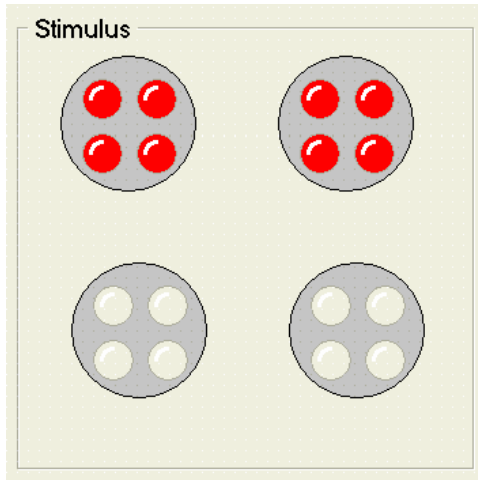
Mount the steering wheel in front of the computer screen and place the pedals on the floor. Place the client in front of the steering wheel with the steering wheel and pedals at a comfortable distance. Press the New Session button to begin a new test series. All tests are automatically saved to disk for reporting.



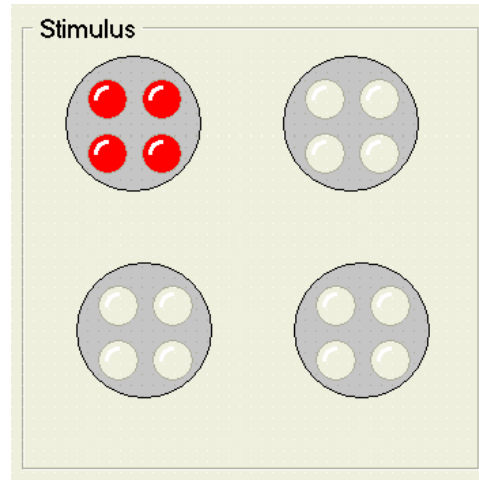
Instruct the client what the meaning of the lights are and how to react to them (see below). When the client is ready, press the Run button or button number 3 on the steering wheel. The scene will change as time runs. When the light or lights show the client should respond accordingly.

There are four simulated lights on the screen that the client watches. When the lights turn red or yellow, the client turns the wheel in the direction of the yellow lights or hits the brake pedal. When Light Brake is displayed the user should apply the brake pedal about 1/2 way down.

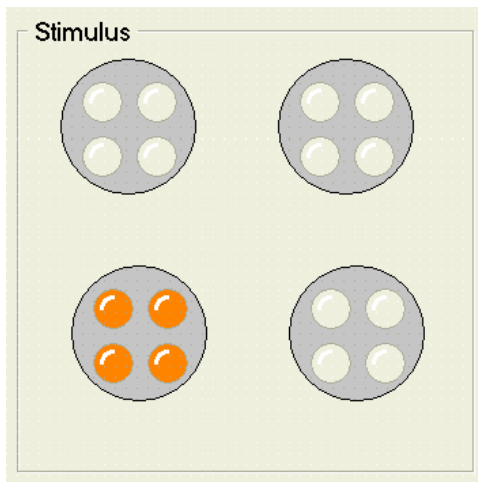
Hard Brake:



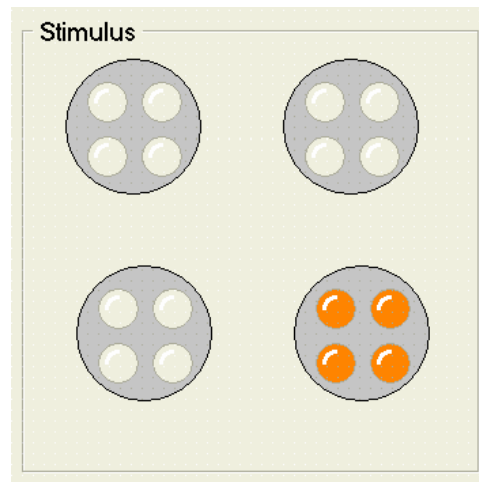
Light Brake:



Left Turn no brakes:



Right turn no brakes:



Using Response, Detailed

Mount the steering wheel in front of the computer screen and place the pedals on the floor. Place the client in front of the steering wheel with the steering wheel and pedals at a comfortable distance. Press the New Test button to begin a new test series. Choose a file name or accept the default. All tests are automatically saved to disk for reporting. See Options for how to change the client name.

Test the client as many times as necessary. Each test is saved in the report for each client. Typically the test sequence will be:

1. Set the client name and instructor name using Options.
2. Click the New Session button.

3. Sit the client in front of the wheel and instruct them on how to use the pedals and steering wheel.
4. Push the Run button.
5. The client depresses the gas pedal to accelerate to about 30 mph.
6. When the light stimulus appears the client responds with the steering wheel or the brake pedal.
7. Each test concludes when the reaction time displays.
8. End the session by clicking on the End Session button.
9. Press the View Report button to show the report.

The test will not start if the minimum speed is not reached. See Scenario Editor in Options for details. Once the minimum speed is reached, the lights will come on at a random time.

If the client makes the wrong response, it is still recorded and noted in the report.

Keyboard Commands

If no steering wheel is present when the program starts, the program will use the keyboard instead of the steering wheel. The keyboard commands are:

- Up Arrow (↑) = Light Brake
- Down Arrow (↓) = Hard Brake
- Left Arrow (←) = Left turn
- Right Arrow (→) = Right turn.

When the Run button is pressed the throttle is set to 100 mph or kph and the run starts immediately.

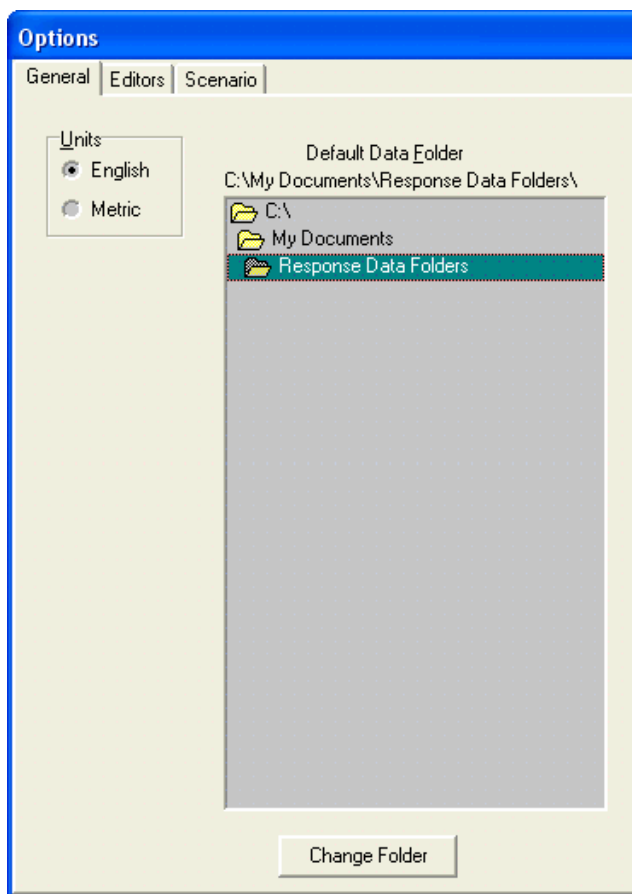
General Options

The General tab of Options is for user changeable options such as the data file location and units of measure.

The data folder defaults to your "My Documents" folder. This is where the test information is stored for each client. Each client will have a folder with the clients name as the folder name and each test is stored in the current clients folder. The scenario's, clients, instructors and other folders are located in the folder where the program is installed, usually <ProgramFilesDir>\Vericom Computers\Response. The data folder, the clients folder, the instructors folder and the scenarios folder should be backed up when other information on your computer is backed up.

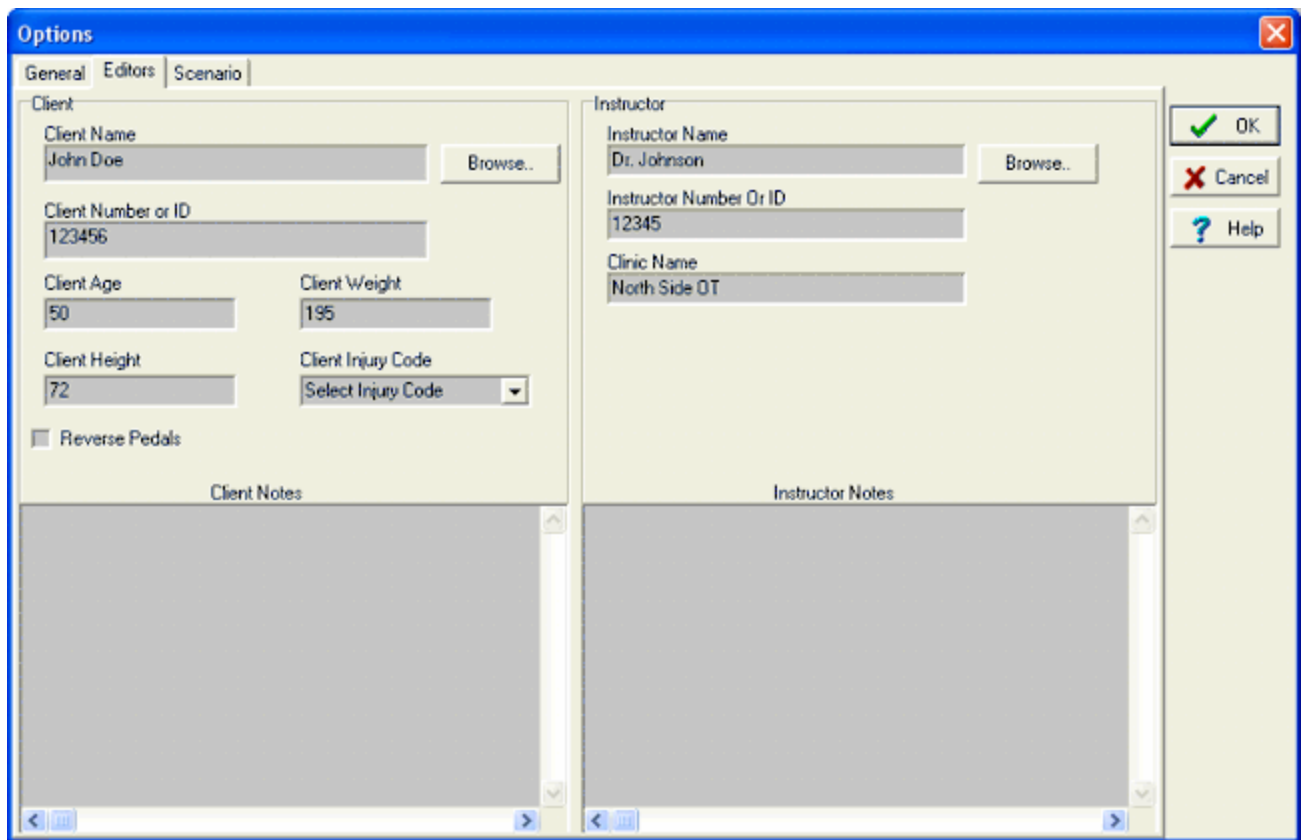
Data can be displayed in English or Metric units.

	English	Metric
Speed	MPH	KPH
Distance	Feet	Meters



Client and Instructor Options

The editors let you type in the clients information and the instructors information. When the clients name is typed in, a folder by that name will be created and the data from the tests will be stored in that folder. When reports are needed for this client, open the folder and choose the test series.



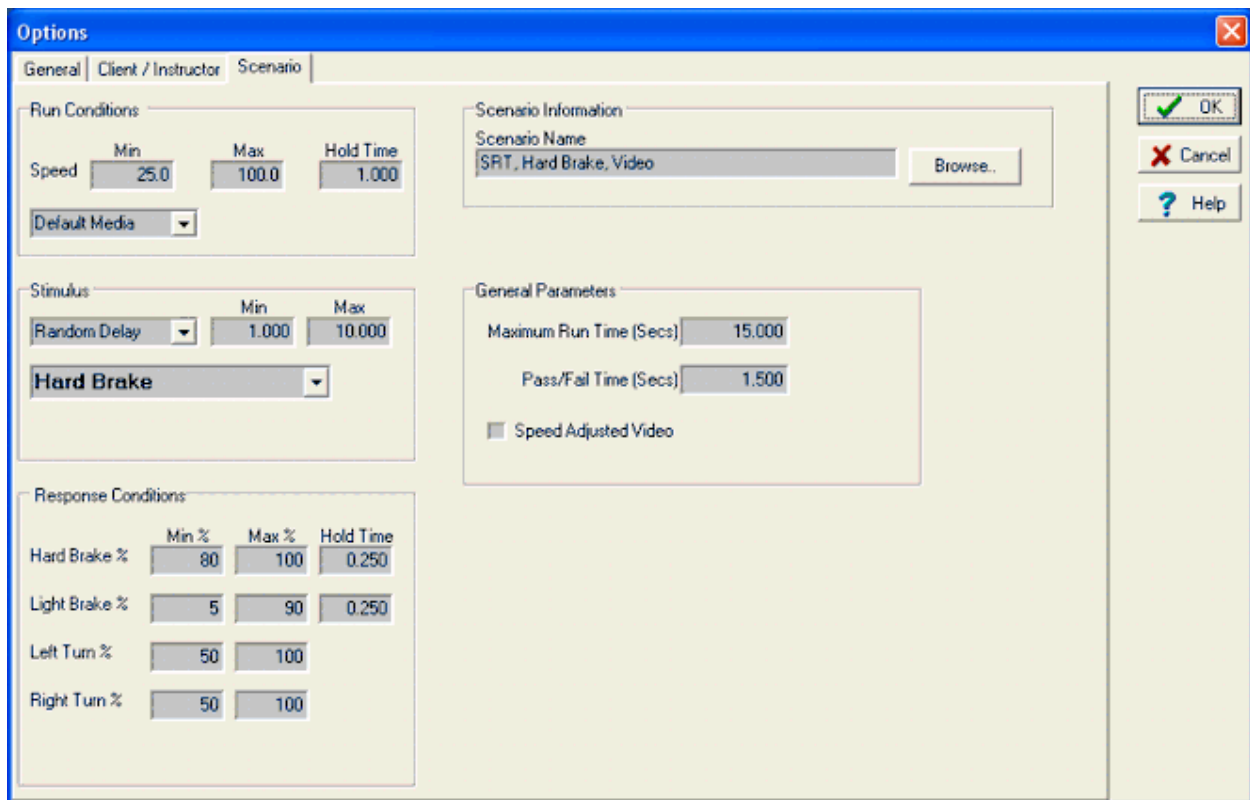
For example, if the clients name is John Doe, a folder will be created named <data folder location>\John Doe.

Click the browse... buttons to open previously stored clients or instructors.

The instructors name will be printed on reports.

Scenario Editor Options

The scenario editor is for changing how the reaction time lights are triggered, if a video is played and other aspects of the test.



Run Conditions:

The Min and Max Speed determine the range the speed must be before the Stimulus will activate. The Hold Time determines how long the speed must be within the range before the stimulus will activate. The Media can be set to default or no media. If no media is selected, only four large lights will show in the middle of the screen with no movie playing during the test.

Stimulus:

The delay time can be preset to a specific time, random time with a minimum and maximum delay, no delay or the stimulus can come on at an exact video frame number. The type of Stimulus can be set to Random, Hard Brake, Light Brake, Right turn and Left turn.

Response Conditions:

Here you can set the minimum and maximum percentage of brake input and steering wheel input. The hold time determines how long the brake must be held to be considered valid.

Scenario Information:

Select from predefined scenarios or create your own. After changes are made, you may save your scenario and open it at any time.

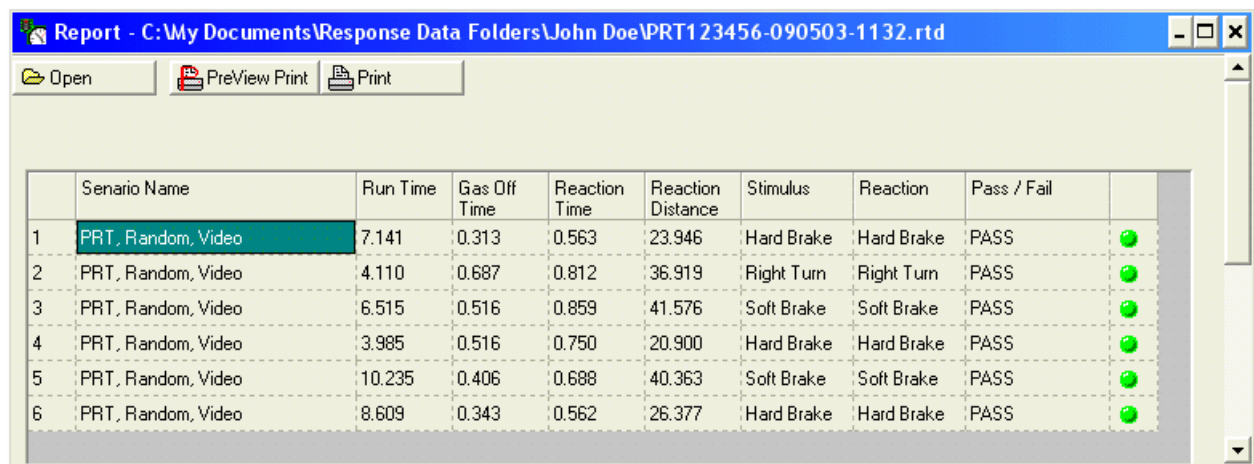
General Parameters:

The maximum run time and the Pass or Fail time can be set. To have the video slow down and speed up with throttle speed, check the checkbox for Speed Adjusted Video. Slower computers may want to leave this unchecked.

Reports

Each test set is recorded to a folder under the clients name with files stored as the clients ID plus the date and time the test was started. For example the folder name is John Doe and the test set is RUN123456-090503-1520'15.rtd. The default name for each test is "RUN" then the client ID, then the month, day, year, then hour, minute, " ' " and seconds it was recorded. To view a test set, open the report from the File menu then select View/Report from the menu, see Opening Report.

Each report shows the scenario, which lights came on and the clients response to it. It also shows the reaction time from the light stimulus to the clients' foot off the gas pedal, the reaction time from the light stimulus to the proper reaction and the distance traveled during the reaction time. If the pass/fail indicator was on, it will show if the reaction time was a passing time or not.



The screenshot shows a window titled "Report - C:\My Documents\Response Data Folders\John Doe\PRT123456-090503-1132.rtd". The window contains a table with the following data:

	Scenario Name	Run Time	Gas Off Time	Reaction Time	Reaction Distance	Stimulus	Reaction	Pass / Fail	
1	PRT, Random, Video	7.141	0.313	0.563	23.946	Hard Brake	Hard Brake	PASS	●
2	PRT, Random, Video	4.110	0.687	0.812	36.919	Right Turn	Right Turn	PASS	●
3	PRT, Random, Video	6.515	0.516	0.859	41.576	Soft Brake	Soft Brake	PASS	●
4	PRT, Random, Video	3.985	0.516	0.750	20.900	Hard Brake	Hard Brake	PASS	●
5	PRT, Random, Video	10.235	0.406	0.688	40.363	Soft Brake	Soft Brake	PASS	●
6	PRT, Random, Video	8.609	0.343	0.562	26.377	Hard Brake	Hard Brake	PASS	●

Opening Reports

To open a report after a test has been conducted, click on the report icon or select View/Report from the menu. If another report is needed, click on the open folder icon in the report window. When the report window is not open click on the Open Session icon or select Open Session... from the File menu. Browse to the session file and click open or double click on the file name. Once a session is open, click on the report icon or select View/Report from the menu.

Printing Reports

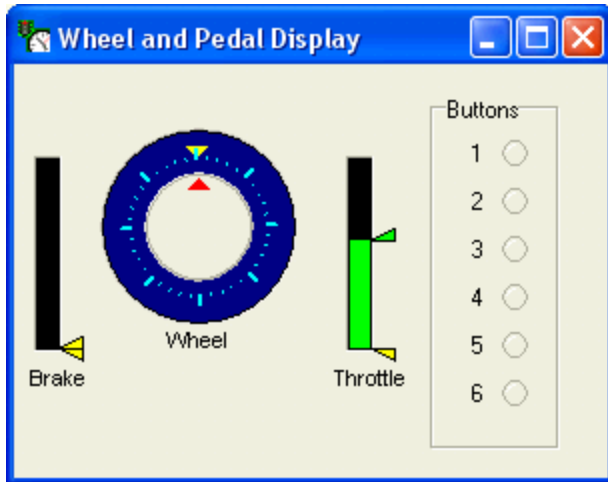
Once a report is chosen click on the print icon and the report will be printed to the selected printer.

Viewing Reports

Once a report is chosen click on the print preview icon. The report will be displayed just as it is going to be printed.

Wheel info

The steering wheel and pedals can be tested by selecting Wheel and Pedal info from the Tools menu.



Troubleshooting

<u>Problem</u>	<u>Solution</u>
Program won't start	Steering wheel software not installed or steering wheel not plugged into computer.
Video doesn't play	Microsoft Windows Media Player not installed. Install it from the Windows CD or download the latest from their web site.
Video is jerky	If the "Speed Adjusted Video" check box is checked in Options the program tries to adjust the playback rate based on the throttle position. If it is a problem, uncheck the check box and the video will run at a constant rate regardless of throttle position.

About Vericom

Vericom has been manufacturing brake testing computers since 1986. Our VC series of on-board accelerometer computers are used by traffic accident investigation and reconstructionists and other automotive experts around the world for 17 years.

We manufacture and sell on board vehicle dynamometers and stationary reaction timers. The VC3000 provides vehicle brake testing and acceleration or performance testing to a variety of applications including Drag Racing, Traffic Accident Investigation, Engineering, Bus Testing, and Rail Car Testing to name a few.

The VC3000 is an automotive Brake Meter, Performance Analyst, Dynamometer, Transit Brake Meter, accelerometer and more all in one. The VC3000 measures the G-Force 100 times per second. The

VC3000 accurately measures average G-Force and precisely calculates speed, time and distance for any type of vehicle. With a sample rate of 100hertz, the VC3000 is incredibly accurate, within 1%. It is easy to operate, completely portable, extremely accurate and very reliable.

The VC3000 is the most modern instrument available for traffic accident investigation and reconstruction in the world. It is used by the experts at Northwestern University Traffic Institute and at the University of Florida Institute of Police Technology and Management (IPTM), and thousands of other experts.

It is also the most accurate and repeatable device for measuring vehicle performance and improving driving skills. It has been used by magazines, television, individuals and professionals since 1986 when it won the SEMA Best New Performance Product award.

Our reaction timer software Response is revolutionary software giving occupational therapists and others a way to test clients in the office before doing on the road tests. The software can be used by anyone who needs to test perception and reaction time.

When the office testing is successful, the instructor can use our VC3000 mobile reaction timer to test in a vehicle. See our web site for more information on the VC3000. www.vericomcomputers.com

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Response End User License Agreement

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GENERAL

This Agreement will be governed by the laws of the Commonwealth of Minnesota. This product includes cryptographic software and has received a classification from the Bureau of Export Administration, US Department of Commerce and may be exported to

appropriate countries and end-users under authorization NLR. It is the responsibility of the exporter to adhere to the Export Administration Regulations and the conditions of such encryption exports.

Service Contract

Vericom Support Program Service Agreement

Vericom sells a support program which gives our customers unlimited support and free upgrades for one year. See our web site for prices.

Vericom Computers Incorporated ("Vericom") and the person ("Customer") ordering the Vericom Support Program ("Support Program") hereby agree that the following terms and conditions shall govern the delivery of support services by Vericom to Customer under the Support Program with respect to applicable registered Vericom products ("Products "). Subject to Customer's termination right as set forth in Section 4 below, ordering the Support Program indicates Customer's acceptance of the terms and conditions contained in this Service Agreement. This Service Agreement is effective upon receipt and acceptance of Customer's order by Vericom ("Commencement Date").

1. **Services.** Vericom will provide Customer the support services ("Support Services ") described at www.vericomcomputers.com/support/response_support (the "Support Site"). Such descriptions, as may be amended from time to time, are deemed to be part of this Service Agreement.
2. **Restrictions.** Vericom may limit or terminate the Support Services to, or may elect not to renew the Service Agreement of, any Customer who uses the Support Services in an excessive, abusive or fraudulent manner. Support Services will be provided to a single registered user only. Resale, assignment or transfer of support rights is strictly prohibited, and will be grounds for termination or non-renewal of the Service Agreement. The Support Program is not available to consultants, technical support agents, software developers or other parties using Vericom Product Expert and Vericom Solution Expert support on behalf of multiple clients or users. Vericom will only provide Support Services for Products that are properly registered with Vericom.
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7. Additions. Any additional services added to this Service Agreement by written notice to Customer will be governed by the terms of this Service Agreement.

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