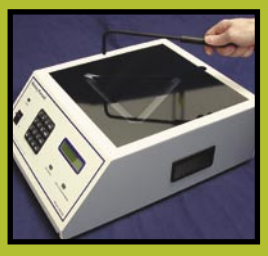
Lafayette Instrument®

# Motor Behavior
# &
# Cognitive Tools

PRODUCT CATALOG



# Contents

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# Motor Behavior & Cognitive Tools

Since 1947 Lafayette Instrument Company has provided laboratory instrumentation that has been the foundation of scientific literature in the fields of Motor Behavior, Movement Sciences, Psychology, Behavioral Sciences and the Neurosciences, just to name a few. Lafayette Instrument Company is proud to have been a pioneer in the development of these disciplines. With this knowledge base and experience, combined with our propensity for technology, Lafayette Instrument Company is poised to continue our role in the future development of these areas.

This catalog is representative of our commitment to the fields of Motor Behavior, Movement Science and Psychology through new product development. We continue to improve upon our preeminent products as well, so that we can continue to offer you state-of-the-art instrumentation for your teaching, research and assessment needs.

As part of our on going commitment to advance the state-of-the-art, we continue to expand our products' capabilities. Our new MOUART system, for measuring a variety of reaction time, movement time and tapping modalities with response to various stimuli is unsurpassed in its flexibility and accuracy. The system can be used in a stand-alone mode or it can be connected to a computer. Our PsymSoft Windows based experiment designer allows the user to design many types of experiments with automatic data collection and rich reporting. The PsymSoft program can be used with our new Bassin Anticipation Timer, Stability Platform and future devices such as the Rotary Pursuit.

We also offer a sophisticated tool for a large number of highly diverse psycho-diagnostic tests, the Schuhfried VTS computer-assisted system. Schuhfried's RehaCom system is for use in the cognitive rehabilitation and training of both children and adults.

Finally, our commitment also includes our desire to stay in constant contact with our customers. We appreciate your comments, suggestions, and support in our continuous quest to supply both innovative and quality instrumentation.

Thank you for taking time to explore our Motor Behavior and Cognitive Tools catalog. Experience is everything… let ours work for you!

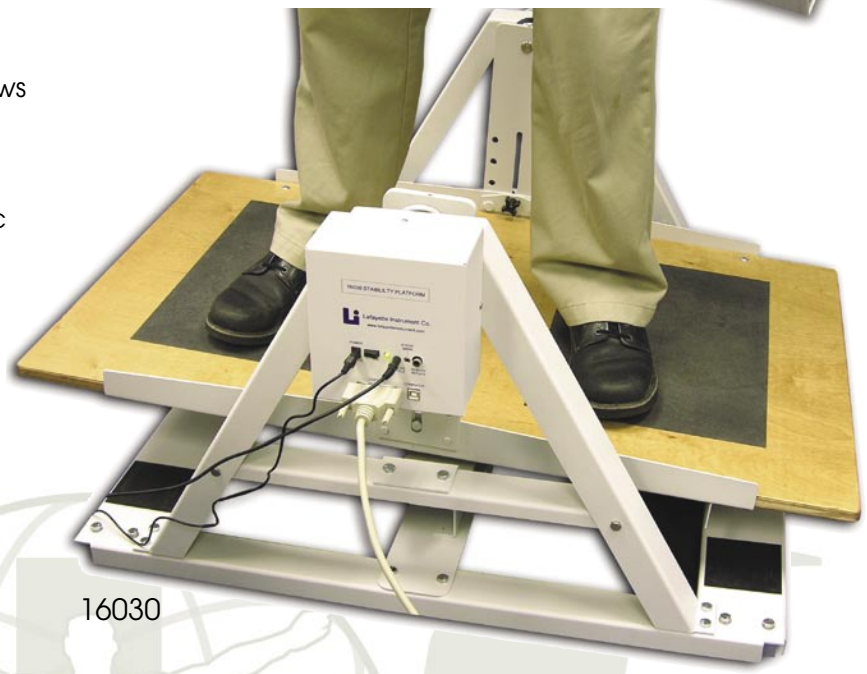
Respectfully,

Terry Echard
Vice President
Manager, Life Sciences

IF YOU DO NOT FIND THE INSTRUMENTATION OR SOFTWARE THAT YOU NEED, PLEASE CONTACT US WITH YOUR REQUIREMENTS. WE WILL BE HAPPY TO FURTHER ASSIST YOU IN MEETING YOUR NEEDS.

**Stability Platform, Model 16030**

The Stability Platform measures balancing ability, which is essential to successfully performing many activities. The Model 16030 Stability Platform features fully integrated timing functions for test control and electronic angle measurement for unsurpassed accuracy. The platform control allows a wide range of user controlled parameters including variable test times, selectable angle limits, and digital tilt angle readout. With the Stability Platform's rugged design and electronic capabilities, it will provide many years of reliable operation.

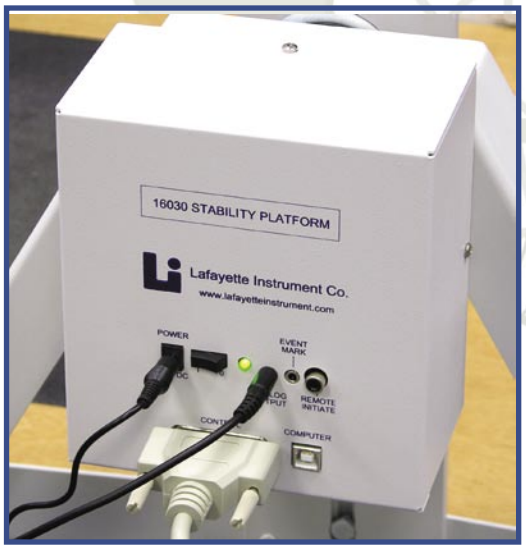


16030

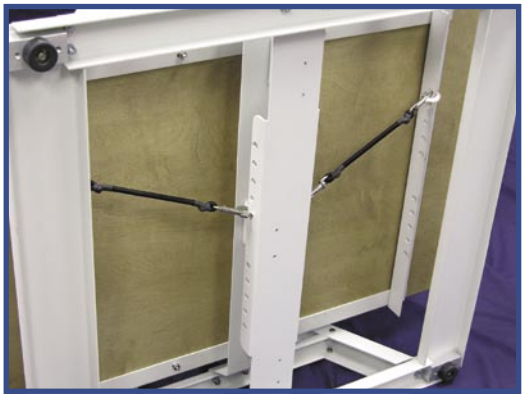
Optional Accessories

- Hand Rail, Model 16030SR - (Optional hand rail to assist subject in balancing or entering and exiting the platform.)
- PsymSoft - Psychomotor Software, Model 35800 - (Windows® based psychomotor experiment software.) Details of PsymSoft on page 12:
- Tension Strap Kit, Model 16030TS

Control box




16030TS



**Electronic Specifications:**

| | |
|---|---|
| Angle Measurement Resolution: | 1.0° |
| Platform Tilt Range: | ± 30° |
| Measurement Limit Range: | ± 90° |
| Angle Limit Setting Resolution: | 1.0° |
| Analog Output Voltage Range: | 0-5 Volts |
| Analog Output Resolution: | .028V/° |
| Analog Output Rate: | 25 samples/sec |
| Analog Output Time: | 0.040 sec/sample |
| Test/Rest Time Limit: | 999 sec |
| Test/Rest Time Resolution: | 1.0 sec |
| Repeat Cycle Limit: | 25 |
| Test Timing Resolution: | 0.001 sec |
| Timing Accuracy: | .005% |
| Power Supply: | 10V external adapter |
| Event Mark Output: | 0-5V TTL |

**Platform Specifications:**

| | |
|---|---|
| Platform Dimensions: | 42" x 25.5" |
| Overall Dimensions: | 42" x 38" x 22" |
| Platform Material: | 3/4" Plywood |
| Frame Material: | 1/8" Aluminum |

**Standard Rotary Pursuit, Model 30010A**
**Replacement Stylus with Flexible Tip, Model 30100F**

30010A


This apparatus is commonly used in the study of perceptual motor-skills and learning phenomena. The standard rotary pursuit has a rotating 10" anodized disk with a 0.75" target spot placed at a 3.125" radius from the disk center. The subject's task is to maintain contact between the target spot and a metal wand. An internal timer automatically alternates between a 20-second test period and 20-second rest period. The use of an external interval timer allows for variable test and rest periods. This model has motor speeds of 15, 30, 45 and 60 revolutions per minute. An internal counter/timer counts time on target. With the use of an additional external ounter, you can count time on target and the number of times the wand leaves the target.

**Photoelectric Rotary Pursuit, Model 30014A**
**Replacement Stylus, Model 30105A**
**Circle Template, Model 30108**
**Square Template, Model 30109**
**Triangle Template, Model 30110**

30014A

The photoelectric rotary pursuit may be used to assess general perceptual motor learning across such parameters as handedness, transfer of training, distribution of practice, and hand-eye coordination. The subject's task is to follow a rotating light with a photocell tipped wand. The features of this model provide the examiner with digital control and the ability to monitor many testing variables. The keypad interface and LCD display provide control over the speed of the disk, direction of rotation, test time, rest time, number of test cycles, and sensitivity of the photocell wand. During the test, the unit monitors: the time on target, time off target, number of target hits, number of revolutions completed, and number of test cycles remaining. The unit also allows for computer control and monitoring through a standard serial port connection.

## *Functional Specifications:*

| | |
|---|---|
| **Power Supply:** | 24VDC @ 0.4A, 2.1mm Center Positive DC Plug |
| **Speed Range:** | 5 to 99RPM |
| **Direction:** | CW / CCW Selectable |
| **Test Time:** | 1 to 9,999 Seconds with 1 Second Resolution |
| **Rest Time:** | 1 to 9,999 Seconds with 1 Second Resolution |
| **Stimulus Sensitivity:** | 0 to 9 (9= Maximum Sensitivity) |
| **# of Cycles:** | 1 to 99 |
| **Revolution Counter:** | 0 to 9,999 Revolutions with 1 Revolution Resolution |
| **Accuracy of Timers:** | +/- 1mS |

**Auto Scoring Mirror Tracer, Model 58024A**
**Replacement Mirror and Base, Model 58024M**
**Replacement Stylus, Model 32533B**
**Mirror Tracer Connection Cable, Model 32533C**
**Replacement Star, Model 32532A**

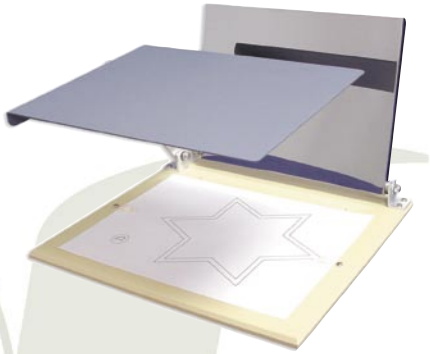
This tracing device involves reversal ability, hand-eye coordination and learning. Subject is required to trace the star pattern while watching only its mirror image. This automated unit comes with a Model 58024C Impulse Counter which counts every time the metal-tipped stylus leaves the anodized star pattern.

58024A

**Mirror Tracer, Model 31010**
**Replacement Tracing Stars, Model 31110**

This mirror tracer requires the subject to reverse visual cues and to trace a mirrored star pattern onto paper. Both this unit and the automated mirror tracer have a shield to hide subject's hand from view while tracing. Mirror and shield fold down for easy storage.

31010



**Automatic Tally Maze, Model 20017**

The automatic tally maze attaches to our Multifunction Timer/ Counter, Model 54035A (not included) to record errors and time required for completion. While wearing a blindfold (blindfold not included), subject traces along the anodized pattern with a metal stylus. Reduction in number of errors for successive trials is a useful demonstration of learning and memory.

20017

**Two-Arm Coordination Test, Model 32532**
**Replacement Star, Model 32532A**
**Replacement Stylus, Model 32532S**
**Mirror Tracer Connection Cable, Model 32533C**

This is a test of motor coordination and learning which requires both arms to work together. The subject's task is to move the metal pointer around the anodized star pattern without leaving the pattern. A Counter or Timer/Counter is required for data collection.

32532

20013

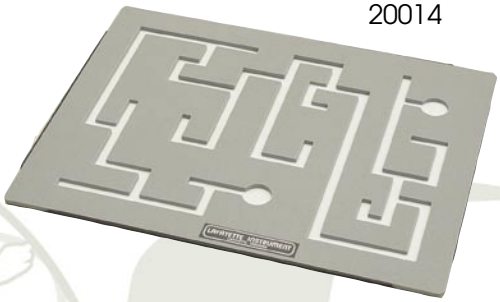
**Pyramid Puzzle, Model 20013**

Our pyramid puzzle has been adapted from the well-known Tower of Hanoi puzzle. The subject is required to move the stack of graduated blocks from one pole to another, by moving them only one at a time and without ever placing a larger block atop a smaller block. This is a useful tool for demonstrating problem solving, insight learning and concept formation.

20014

**Pencil Maze, Model 20014**

While blindfolded, an individual is required to trace through the maze from start to finish. An 8.5" x 11" sheet of blank paper fits between the maze and its frame so that a permanent record of performance is made. Test performance illustrates spatial memory processes and problem solving. Blindfold not included.



**Card Sorting Box, Model 20011**
**Extra Cards (150/pkg), Model 20020**

This apparatus has been designed to trace progress in motor learning which requires rapid recognition and hand-eye coordination. While under time pressure, subject is required to place numbered cards into the corresponding numbered slot. This unit comes with 15-hole (backless) sorting box, 10 sets of 15 numbered cards and extra numbers for rearranging slots.

32520

**Etch-A-Sketch with Overlay, Model 32520**

Based on the traditional model, this modified Etch-A-Sketch has a maze overlay that allows the user to practice both two-hand, and hand-eye coordination while maneuvering through the maze. To create an alternate test paradigm, the apparatus may be turned 180° to reverse both maze pattern and control usage.


31202

**Linear Movement Apparatus, Model 31202**

This apparatus can be used for motor learning tasks and assessments of temporal or spatial memory. It consists of a cube mounted on a pipe with bearings. Subject's task is to move the cube at a specified distance or speed without external cues. To evaluate the subject's ability to judge these dimensions, an LCD readout displays the distance the cube is moved. This unit employs two magnetic micro-switches that can be used for time measurement.

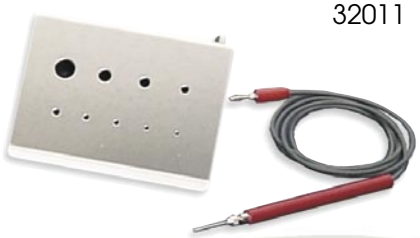
**Steadiness Tester, Groove Type, Model 32010**
**Replacement Stylus, Model 32100**

32010

This device tests dynamic steadiness. The subject is required to move a metal-tipped stylus along a narrowing channel without touching the sides. The channel width can be adjusted for varying difficulty. Centimeter markings along the edge allow measurement of a subject's performance. Silent Impulse Counter Model 58024C can be used to detect errors. Multi-Function Timer Counter Model 54035A or Economy Clock/Counter Model 54060 can be used to detect errors and measure total time in error.

**Steadiness Tester, Hole Type, Model 32011**
**Replacement Stylus, Model 32100**

32011



The subject's task is to hold a metal-tipped stylus in 9 progressively smaller hole sizes without touching the sides. The effects of: steadiness of handedness, exercise, smoking, alcohol ingestion and other factors can be observed. Performance curves can be analyzed for practice effects and fatigue. Silent Impulse Counter Model 58024C can be used to detect errors. Multi-Function Timer Counter Model 54035A or Economy Clock/Counter Model 54060 can be used to detect errors and measure total time in error.

**Tapping Board Test, Model 32012**
**Replacement Stylus, Model 32102**

32012

This apparatus helps evaluate an elementary psychomotor skill. While using a metal-tipped stylus, the subject's task is to tap, as rapidly as possible, the two fixed 0.75" square plates at each end of an 18" board. A Model 58024C Silent Impulse Counter can be used for data collection.

**Adult / Adolescent Finger Tapper, Model 32726**

32726

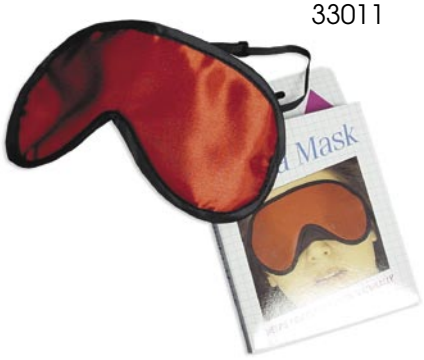
Used as a measure of finger tapping speed, or oscillation, which can act as an indicator of psychomotor disruption. The finger tapper is used to measure the maximum oscillation rate of the index finger. The subject pushes down on the circular paddle attached to a counter as rapidly as possible for a timed period.
*A stopwatch (not included) is required for this test.

**Tactile Form Recognition, Model 32736**

By using touch, the blind folded subject tries to match a shape in one hand to a shape touched on the board with the other hand. Norms for ages 5-14 are included.

**Individual Blindfold Mask, Model 33011**

33011



Single blindfold mask for use by subjects.

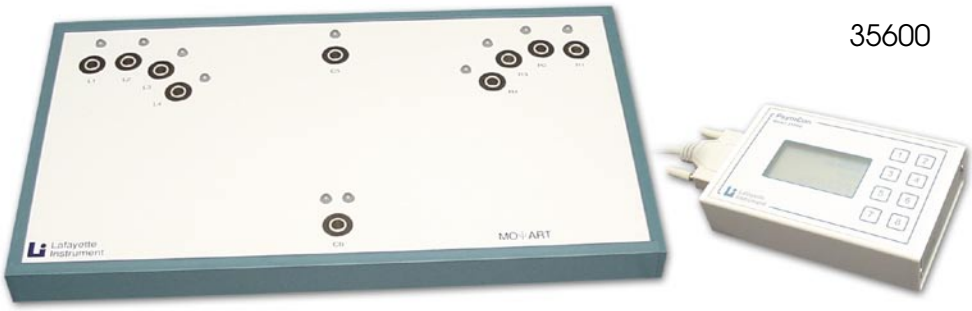
**Blindfold Masks (4/pkg), Model 33010**

Set of four Model 33011

**MOψART Reaction Time/Movement Time Panel with psymcon control, Model 35600**
**MOψART Reaction Time/Movement Time Panel only, Model 35601**

We are proud to introduce our new system of reaction time measurement, the Multi-Operational Apparatus for Reaction Time (MOψART) system. With MOψART you can employ simple reaction time tasks such as Go/No Go tasks for the study of higher centers of the brain, and more complex discriminate reaction time tasks to study cognitive processing. The system may also be used to study executive functioning through the use of an interference tapping task. While subjects are required to attend to a reaction time task they must execute a simultaneous tapping task.

35600



**MOψART's main menu allows the user to select one of the following six test types:**

1. **Simple Reaction Time:** Choose either simple stimulus with response or Go/No Go reaction paradigm.
2. **Choice Reaction Time:** Choose from multiple stimuli and multiple responses.
3. **Simple Reaction/Movement:** Choose either simple stimulus with response or Go/No Go reaction paradigm with an added movement response.
4. **Choice Reaction/Movement:** Subject starts from a single key and responds to one of multiple response keys based on stimulus presented.
5. **Simple Tap Test:** The subject taps one key as quickly as possible during a timed test period.
6. **Complex Tap Test:** The subject alternately taps two separate keys as quickly as possible for a predetermined test time.

**Additional Tests w/PsymSoft:**

**Reaction Time + Tapping Test:** The subject is instructed to perform a reaction time test while simultaneously performing a tapping task.

Within each of these test types, the user can set several variable parameters to meet their needs. These parameters include: Choice of Stimulus, Reaction Method, Cue Type, Length of Cue, Error Types, Response Time Out and Random Presentation.

***Functional Specifications:***

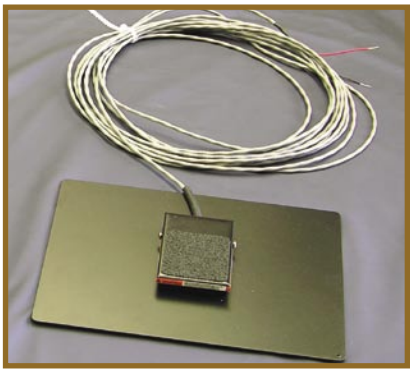
| | |
|---|---|
| **Stimulus:** | Choice of (9) tricolor lights, high tone or low tone, random or fixed presentation |
| **Reaction/Movement Keys:** | (10) touch sensitive keys with inner and outer target hotspots for accuracy measurement |
| **Cue:** | Choice of tricolor light, high tone, low tone, or auxiliary outputs |
| **Cue Time:** | Fixed, random, or none |
| **Cue Time Range:** | Variable from 0 - 25.5 seconds, 0.1 second resolution |
| **Error Type:** | Early response, no response, incorrect response or inaccurate response |
| **Response Time Out:** | Variable from 0 - 25.5 seconds, 0.1 second resolution |
| **Tapping Duration:** | Variable from 0 - 255 seconds, 1.0 second resolution |
| **Power Requirements:** | 12VDC, 1.0 Amp supplied with AC adapter |
| **Computer Connection:** | USB |
| **Timing Resolution/Accuracy:** | 1.0 millisecond ± .001% |
| **Dimensions:** | 21.0" x 11.2" x 2.5" |
| **Control Interface:** | Lafayette Instrument's PsymCon Model 35500 or PsymSoft Model 35800, Lafayette Instrument's psychomotor data collection instrument control software for movement sciences |

35602


**Single Touch Key with Stimulus for MOΨART, Model 35602**

Auxiliary Single Touch Key with Stimulus to be used with the MOΨART Reaction Time/Movement Time Panel Model 35600, auxiliary key input.

35603

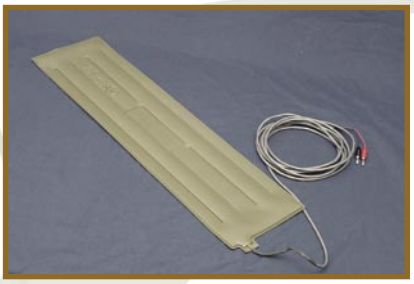


**Footswitch Response Pad for MOΨART, Model 35603**

Footswitch response option to be used with the MOΨART Reaction Time/Movement Time Panel Model 35600, auxiliary input.

**Switch Mat 17" x 23", Model 63515**
**Switch Mat 6" x 22", Model 63516**
**Switch Mat 23" x 35", Model 63517**
**Switch Mat 30" x 32", Model 63518**

63516



Vinyl, heat-sealed mats have an 8-foot cable terminated in standard banana plug connectors. Mats require 5 pounds nominal pressure for activation.

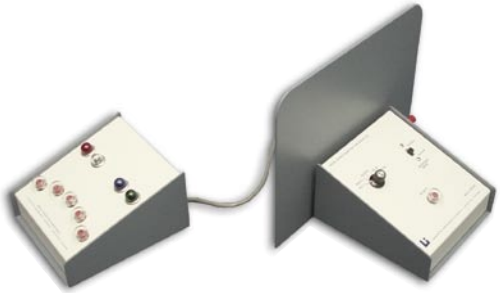
**Electronic Voice Reaction Time, Model 63040A**

63040A

This apparatus acts as a dual-channel, solid state, voice relay. Each channel is independent and may be activated by either a piezo microphone, a throat microphone, or a manual push-button supplied with each unit. A microprocessor is employed to provide overall control of the unit's functions. It operates in four different modes: Latched, Non-latched, Sequential or Non-sequential. A total of up to three relay outputs may be used with external devices such as; counters, timers or external stimulus devices. This unit uses solid state relays to prevent high frequency noise from causing false triggering of the analog circuitry, as can happen with solenoid relays.

**Visual Choice Reaction Time, Model 63035A**

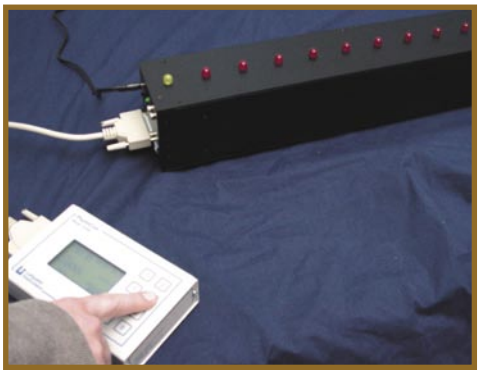
63035A



This device can be used to measure pure reaction time and simple and discriminative reaction/movement times. You can also use two or more of these units together to demonstrate how reaction time increases as a function of the number of stimulus-response alternatives in a task. Each unit is equipped with four, color stimulus lamps (red, blue, green and white), one 2800Hz-tone stimulus, and five response keys. 15 feet of cable and a shield at the operator's console separate the operator from the subject. An external timing device, Multi-Function Timer/Counter Model 54035A or an Economy Clock/Counter Model 54060 is required for time measurement, but is not included.

**Bassin Anticipation Timer, Model 35575**

35575



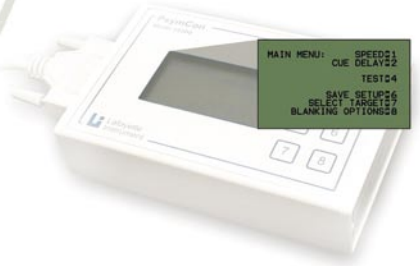
Dr. Stanley Bassin originally developed the Bassin Anticipation Timer at California State Polytechnic University, Pomona. One of the applications of the unit is to test the area of human visual acuity related to eye-hand coordination and anticipation. The subject is instructed to watch a light as it travels down the runway. They must anticipate the light reaching the target and press a push-button, or perform some other action, to coincide with the arrival of the light at the target. The new version of the Bassin Anticipation Timer incorporates many new features, as well as enhancements to existing features, adding new dimensions to your experiments. The additional features will allow researchers to explore new paradigms and new twists on old paradigms.


**Bassin Timer Kit, Model 35575 includes the following items:**

1 - Start runway (30"), Model 35571
1 - Middle runway (28.16"), Model 35573
1 - End runway (30"), Model 35572
1 - Psychomotor control panel with LCD (PsymCon), Model 35500
1 - 9V power supply
1 - 10' DB-25 cable
1 - Hand held response push-button
1 - Hand held remote initiate push-button
1 - Contrast adjust screwdriver
1 - Target light marker
1 - User's manual

**Enhanced Existing Features:**

- Selectable speed from 1 - 255 MPH
- Selectable Cue delay from 0.5 - 30.0 seconds
- Random Cue delay setting
- Runway lights are twice the size and are five times brighter
- Runway interconnection has been improved for increased life and reliability




**New Features:**

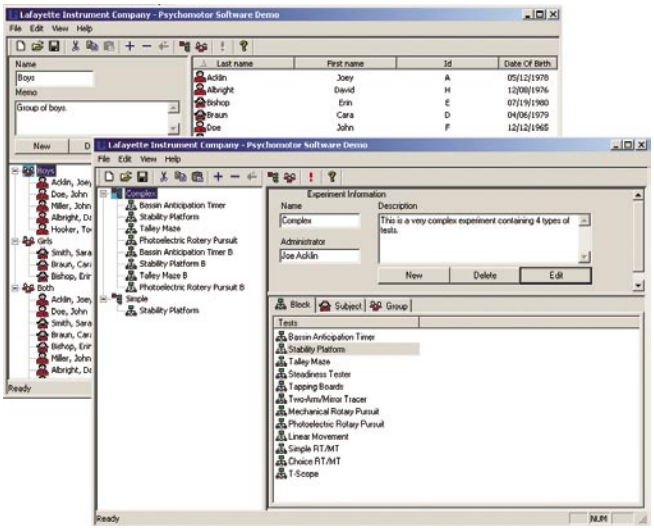
- Different start and ending speeds may be set for Acceleration or Deceleration
- Storage of all test settings
- Any light on the runway can be selected as a target light
- Independent blanking of any light or section of lights along the runway
- Stand-alone instrument with small portable control panel
- Constructed for a wide range of user response methods - handheld push button, photocell, switch mat, or various custom applications

**Other configurations are available.**

The modular runway sections can be configured for many total runway lengths (a maximum of 38 middle sections can be used added to one start and one end, equalling a maximum length of 1,130") and a variety of applications. Curved runways are also available to assess peripheral target acquisition and anticipation. Three sections make a $90^0$ arc on a 4.5' radius.

## PsymSoft - Psychomotor Software, Model 35800

Lafayette Instrument's PsymSoft, a psychomotor experiment software for Microsoft® Windows®, allows researchers to design experiments for several of our motor behavior products. The software is used to program the various parameters associated with each motor behavior device and to guide the experimental procedure. Experimental data is automatically recorded and stored in a database where it can be recalled for built-in reporting or queried for in-depth analysis.



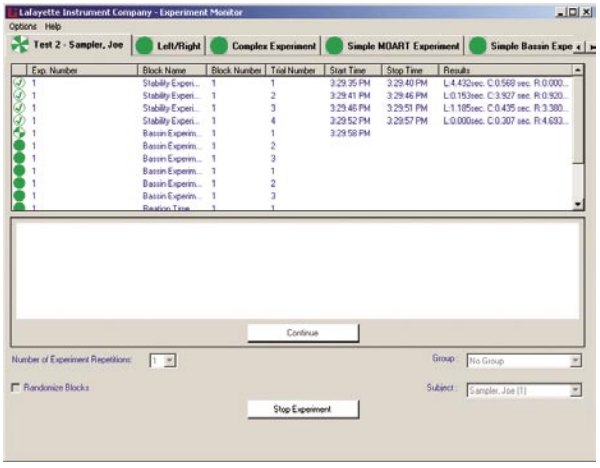

### Features:

Experiment Builder:
- Define experiment using blocks, tests and trials
- Build experiments with different configurations for a single device
- Build experiments using different devices

Experiment Monitor:
- Monitor multiple experiments and devices simultaneously
- Randomize experiment block order
- Inter-Block and Inter-Trial Message prompter

Built-in Reports:
- Presents results in both line and bar graphs
- Simple statistics

Test Subject Database:
- Create test groups
- Ability to re-organize subjects in new groups




### Benefits:

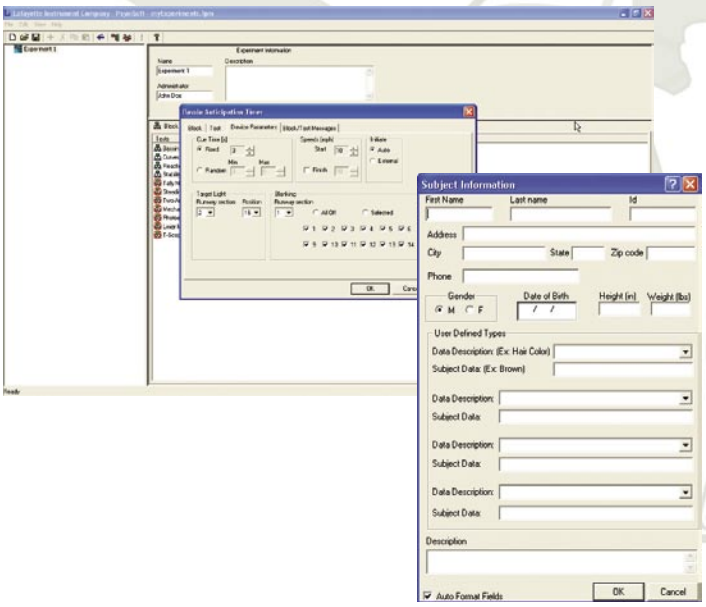
- Organizes the experiment and results in a familiar format
- Automatically re-programs the device for added flexibility and error free setup
- Adds flexibility to the experimental design and enhances the test experience
- Follow the progress of each experiment with ease and see relevant results to ensure that the experiment is performing as planned
- Increases the complexity and flexibility of the experiment
- Assists the experiment coordinator with management of the test protocol and subjects
- Linear regression line helps quickly determine if there is a practice effect or fatigue
- Intra-subject statistics give readily usable results
- Comparison of results for test groups or individuals ...coming soon
- Data follows the subject regardless of group association, which adds flexibility to data analysis

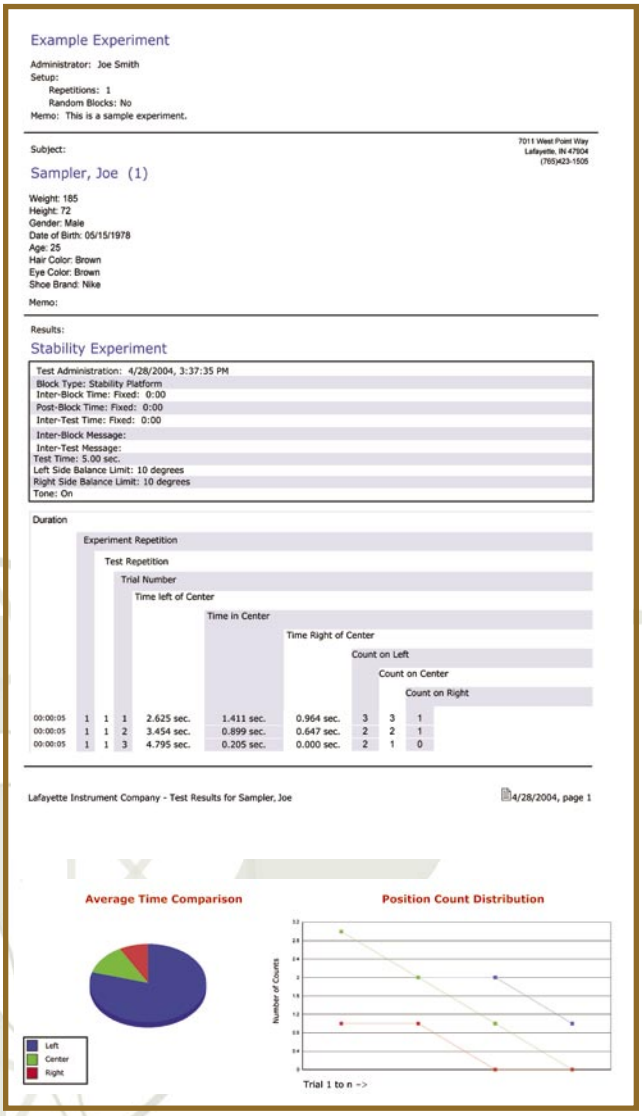
**PsymSoft, Model 35800 (continued)**

***PsymSoft Computer Requirements:***

| | |
|---|---|
| Operating System: | Windows® 98SE, Me, 2000, XP |
| CPU Speed: | Pentium III, 400MHz |
| Hard Disk Space: | 150Mb |
| RAM: | 128Mb |
| CD ROM Drive: | Yes |
| Mouse: | Yes |
| USB Port: | Yes |

**Optional Requirements:**
Microsoft Access For database queries




Sample Report generated with PsymSoft

**Currently Supported Devices:**

**Description:**

Bassin Anticipation Timer, Model 35575

Lafayette's latest model for anticipatory time studies, which includes added features for runway blanking, target selection, 'ramped' speeds and more.

MOψART Panel, Model 35600

The Multi-Operation Accurate Reaction Time panel can be used for various reaction time and tapping studies. This includes Simple RT, Choice RT, Simple RT/MT, Choice RT/MT, Single Key Tapping, Dual Key Tapping, and more.

Stability Platform, Model 16030

The latest version of the stability platform has all the needed functionality built-in to the control. You can program Test & Rest Times, and you get continuous output of the platform position.

35580

**Modified Bassin Anticipation Timer, Model 35580**

When mounted on a series of tripods and connected to a photocell, the Bassin Anticipation Timer Model 35575 is modified for a more complex task. The goal is to time the approach of the light with the swing of a bat so that the infrared beam is broken at the same time that the light reaches the end of the runway. This unit could be applicable for a bat swing, tennis swing, or even a soccer kick. The control box displays in milliseconds, the amount of time that the swing or kick was too early or too late.

**Modified Bassin Timer Kit, Model 35580 includes:**

1- Bassin Timer Kit, Model 35575
2- Tripods for mounting the runway, Models 09850 & 63504
1- Photocell Control, Model 63501IR
1- Hardware Kit, Model 31201HC
1- Modified Bassin setup guide

**Brake Light Simulator, Model 35905**

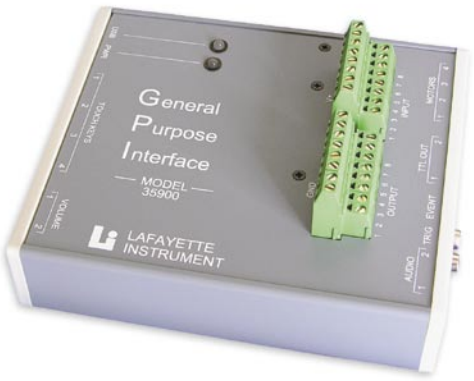
35905

The Brake Light Simulator Model 35905 is used in reaction and movement timing. The Simulator output is TTL level and can be interfaced to any data acquisition system for accurate data collection. All inputs to the Simulator are diode protected and can be easily interfaced to. When used with the Multi-Function Timer Model 54035A, the Simulator can be used to simulate braking and capture reaction/movement times. The Brake Light Simulator can also be used with MOART Panel Model 35600 as well as PsymFlex Interface Model 35900. The system includes a Remote initiate button and two Foot Switches.

**Advanced PsymFlex - Psychomotor Reflex System with vibration stimulus, Model 35900**
**Basic PsymFlex - Basic Psychomotor Reflex System, Model 35901**

35900

PsymFlex is a general purpose interface that is controlled through our PsymSoft - Psychomotor Software. It is designed for stimulus presentation and input response. It can be used to present stimuli such as vibration, lights and tones (some optional devices required). It also allows for the connection of multiple input devices such as touch keys, foot pedals, and infrared photocells. PsymFlex can also be used with such equipment as our Mirror Tracer, Two-Arm Coordination Test and Auto Tally Maze for error counting and timing.



**Multi-Function Timer/Counter, Model 54035A**
**Software, Model 54035A-SF**
**Patch Cord Set, Model 58085**

54035A


The multi-function timer/counter simultaneously counts and times on 3 separate channels, or can record up to 4 split times on a single channel. It is battery powered, offers a sleep mode to conserve power when not in use, and alerts you when the batteries run low, or it can be powered with the included AC adapter. All connections are made easily through a screw terminal. Software Model 54305A-SF is also included. Use this timer with 2 Model 63516 Switch Mats to perform the Margaria-Kalamen Power Test.

***Functional Specifications:***

| | |
|---|---|
| Power Supply: | 12VDC Wall Mount Transformer or Battery Power (4 "C" Cells) |
| Range: | 0 to 1000 Seconds with Millisecond Resolution |
| Resolution: | 0 to 1000 Counts |
| Accuracy: | 0.005% +/- 1 Millisecond |
| Max Count Rates: | 40Hz |
| Battery Life: | Approximately 30 Hours |
| Serial Communication: | 4800 baud, No Parity, 8 bit ASCII, 1 Stop |

63504

**Infrared Control System, Model 63501IR**
**Infrared Control Cable, Model 63501CBL**
**Adjustable Height Tripod, Model 63504**

63501IR

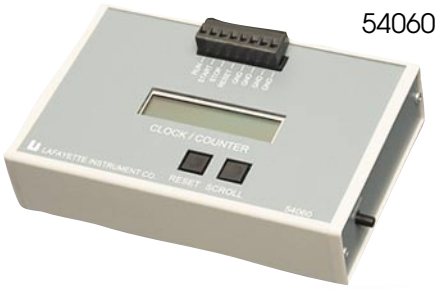
This battery-powered photocell is ideal for outdoor timing. It generates an infrared beam and when the beam is broken, a relay is closed. That signal is used to start or stop timing systems. The pulse-modulated infrared signal is effective for up to 30', and is not affected by surrounding light conditions. An LED indicator displays signal strength when the infrared photocell is correctly aligned with the reflector. The Infrared Control Cable Model 63501CBL and Adjustable Height Tripod Model 63504 are available but are not included. Pricing for the control cable is based upon length, please specify when ordering.

58024C


**Impulse Counter, Model 58024C**

This impulse counter has the ability to perform in either silent or tone feedback modes. This option is easily activated by an on/off switch. The 6-digit LCD display can record over 50 counts per second. The counter and LED light are activated by contact closure across the front input binding posts.

54060




**The Economy Clock/Counter, Model 54060**

The economy clock/counter is a timing device that is capable of accurately recording times down to the millisecond. This device is powered by a single 1.5 volt AA battery, and a small microprcessor is employed to provide all the operational needs of this device. All of the switch contacts can be configured for Normally Open or Normally Closed contacts, adding versatility to the device. This unit can display times up to 999.999 seconds, and can display up to 9,999 count inputs. The device has individually configurable inputs, it will work with contact closures, logic levels, and infrared triggering systems. All the inputs are diode protected. We recommend a maximum rating of 30 volts DC, and absolutely no AC voltage applied to the inputs. Use this timer with 2 Model 63516 Switch Mats to perform the Margaria-Kalamen Power Test.

00040


**Robic Stopwatch, Model 00040**

Lap, split and event timing with time-out/pause feature; 1/1000 second resolution up to 24 hours; five memory recall.

56016

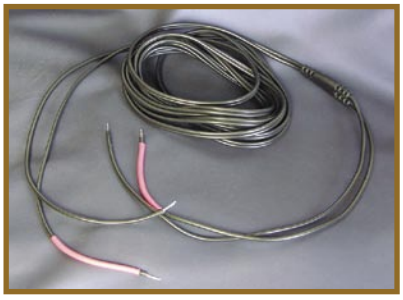

**Individual Hand Tally Counter, Model 56016**

This 4-digit mechanical counter fits in the palm of your hand and has a ring for holding with your finger. This counter may be used for tallying or counting when required during observations.

**Patch Cord Black, Model 58084**
**Patch Cord Red, Model 58084RED**

36" banana plug to banana plug patch cord available in red or black

58085



**Patch Cord Set, Model 58085**

Set of (2)10 foot patch cords for timing and counting systems

**Professional Vision Tester, Model 14019**
**Replacement Bulb (6/pkg), Model 14019LT**

14019 and 14019A

This precision-built vision tester is designed for rapid and concise measurement of visual performance. The results show how well the subject's eyes perform by using the 12 test slides included with each unit for complete occupational screening using accurate and easily understood targets. Includes Purdue Job Standards booklet to easily identify individuals requiring further testing, for all occupations. Now test Distance, Intermediate, and Near Point Vision.

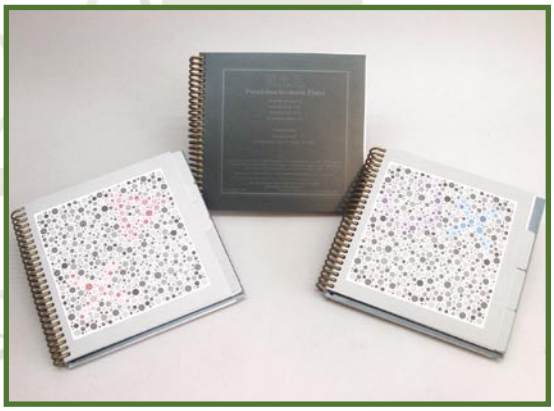
***Features:***

- New, unsurpassed homogenous illumination
- Background luminance complies with international standards
- 2 separate viewing ports for accurate distance: 20' (6m), and near: 16" (40cm) testing
- Lightweight and portable, weighing less than 15lbs (6.8kg), requiring only 2' (.6m) of space.
- Scratch resistant and has a washable surface made of ABS plastic

**Professional Vision Tester with Peripheral Test, Model 14019A**
**Replacement Bulb (6/pkg), Model 14019LT**

Same as Model 14019, but also includes a peripheral perimeter, commonly used for testing the lateral (horizontal) vision field.

14017



(*only one book included, not all three)

**Color Blindness Test, Model 14017**

This Hardy, Rand, and Ritter (HRR) Pseudoisochromatic Subset Book for Red/Green test contains two demonstration plates, four screener plates, and 10 diagnostic series for a total of 16 plates. Each of these plates has its own tab for easy and clean page selection. The test also includes a set of instructions in English and a laminated copy of the score sheet. The score sheet can then be copied directly onto the patient's record or copies can be made locally. A pad of score sheets is available separately.

**Deluxe Portable Audiometer, Model 15014DLX**

15014DLX

This Deluxe Portable Audiometer is truly a universal audiometer, designed for use in virtually every hearing screening situation - from schools and industrial settings to physicians' offices, clinics, and managed care institutions. A variety of signal formats–Steady, Pulsed and Frequency Modulated (FM)–provides the flexibility to perform the most effective test for different subject groups, while ensuring fast and accurate results. Frequency levels range from 125 Hz to 8000 Hz, and signal intensities run from -10 dB HL to 100 dB HL with pulse and warble modes. Its lightweight (5.6 pounds), portable design allows you to easily change test sites. A +10dB push button allows you to increase maximum output at each frequency by 10dB, preventing accidental presentation of uncomfortable tone levels. Includes: TDH-39 earphones, reference guide, 50 audiogram forms and instruction manual.

14014

**Stand Perimeter, Schweigger Type, Model 14014**
**Set of Five Extra Targets, Model 14100**
**Replacement Wand, Model 14101**
**Right Eye Charts (100/pkg), Model 14102**
**Left Eye Charts (100/pkg), Model 14103**

The subject fixes their eyes at the midpoint in the perimeter's semicircular ruler while the experimenter moves a pointer to be identified by the subject at his/her visual periphery. This device is used to map areas of the retina sensitive to different colored stimuli. The stand perimeter comes with a semicircular perimeter device, fixation point, five targets (blue, green, yellow, red and white), a wand for presenting targets, five right eye charts, five left eye charts and stand.

14302

**Head-Chin Rest, Model 14302**

For positioning head in studies using right and left fields of vision. Features a chin rest and a stop for the forehead. With a clamp opening of up to 2.5", it will clamp easily to a table. It features adjustable height settings from 11.5" to 15", and has 90 degrees of adjustable forward tilt.

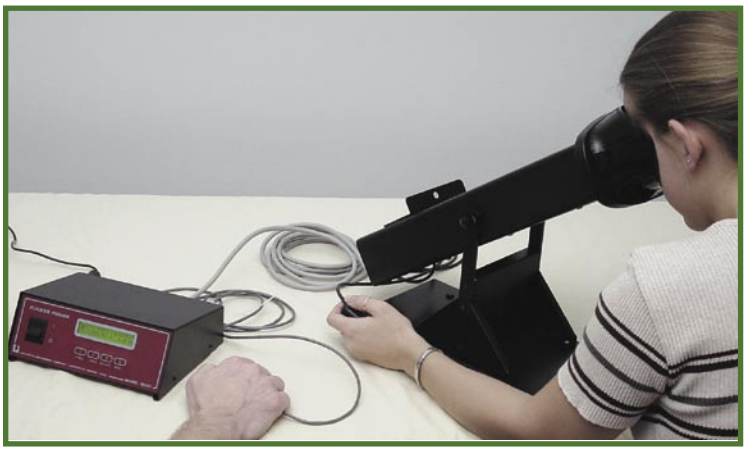
J01300

**Visual Perception Assessment Program, Model J01300**

Measures an individual's basic level of function in the areas of color identification, shape and size discrimination, hand-eye coordination, understanding of spatial relationships, and ability to follow verbal instructions. Includes pegboard and round pegs, graded pegboard, pegboard with square pegs, instruction manual with screening procedures and post-test forms.

12021

**Flicker Fusion System, Model 12021**



The Flicker Fusion System provides the user with a variety of versatile controls to perform accurate and timely measurements of Critical Flicker Frequency (CFF). Digital circuitry is used to provide extremely accurate frequency generation from 1Hz to 100Hz in 0.1Hz steps. The menu-driven LCD display allows for exact and repeatable frequency settings, while the serial port computer interface provides a means for test result storage and computer control of the device. The user options include five modes of operation to cover virtually any test requirement: Ascending Auto Frequency, Descending Auto Frequency, Continuous, Discrete and Analog Control Mode. The software program also provides three automatic protocols: Automatic Method, Adaptive Method and Self-Control Method. The user also has control over the stimulus luminance, sweep rates and stimulus selection.

Includes:

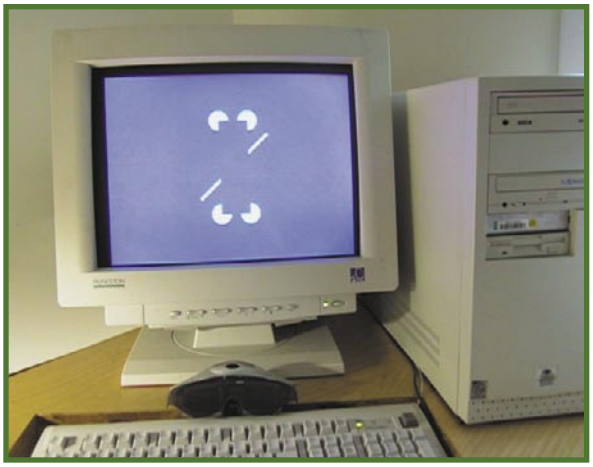
1 - Control Unit
1 - Viewing Chamber
1 - 12VDC Wall Mount AC Adapter
1 - DB9 Female to Female Cable
1 - DB15 Male to Female Cable
1 - Single Hand-Held Push Button
1 - Dual Hand-Held Push Button
1 - 12021.EXE Software Program

The viewing chamber has two lights: one for the left eye and one for the right eye. The light compartments are completely separated, allowing for four stimulus combinations to occur: left eye only, right eye only, left and right simultaneously, or left and right alternately. The viewing chamber is constructed to control extraneous factors, which might distort CFF values. The white electroluminescent lamps produce even lumination over a 0.5" diameter viewing area. The stimuli are separated by 2.75" (center to center) with a stimulus to eye distance of 15" and a viewing angle of 1.9°. The inside of the viewing chamber is painted flat black to minimize reflection.

***Functional Specifications:***

| | |
|---|---|
| **Power Supply:** | 12VDC @ 0.5A, 2.1mm center positive DC plug |
| **Fuse:** | 0.5A, 5 x 20mm fast blow |
| **Frequency:** | 1 to 100Hz in 0.1Hz increments with an error of 0.05% |
| **Slide Holder:** | 2" x 2" 35mm holder for optional Model 12100 Neutral Density Filters with 0.1% to 50% light transmission |
| **Auto Mode Ramp Rates:** | Options of 0.5, 1, 2, and 4Hz per second |
| **Analog Input:** | 3.5mm Mono Phone Plug with voltage range from 0.1 to 10V for 1 to 100Hz flicker rate ABSOLUTE MAXIMUM INPUT = 14V |
| **External Initiate:** | SPST normally open hand-held switch with RCA input |
| **External Response:** | Dual SPST normally open hand-held switch with 3.5mm stereo plug |
| **RS-232C Port Settings:** | 9600 baud, no parity, 8 data bits, 1 stop bit |
| **Typical Luminance:** | 58Cd/m2 |
| **Viewing Angle:** | 1.9° |
| **Light/Dark Ratio:** | 1:1 |
| **Stimulus Color:** | White |
| **Viewing Chamber Mask:** | Hypo-allergenic black silicone mask may be cleaned with an alcohol wipe |
| **Control Size:** | 8.625"W x 6.5"L x 3.25"H Weight: 1.8lbs. |
| **Viewing Chamber Size:** | 7"W x 19"L x 16"H Weight: 7.4lbs |

**VisionLab™ SingleSite License w/ Hardware Kit, Model 70306**
**VisionLab™ Unlimited Site License w/ Hardware Kit, Model 70307**
**VisionLab™ Additional Hardware Kit, Model 70309**
**VisionLab™ Goggles only, Model 70309SG**



VisonLab ™ is a set of user-modifiable vision demonstrations and experiments, many of which are presented in Stereoscopic. It is a teaching tool designed for Introductory and Experimental Psychology; Sensation and Perception.

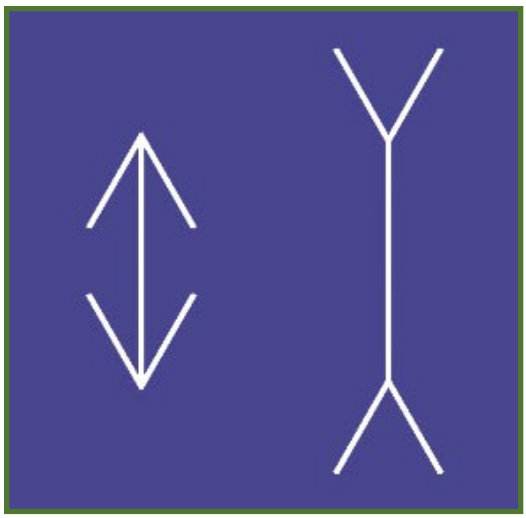
It is flexible and easy to use with a menu-driven program that permits you to set up a teaching laboratory in as little as half an hour.

There are two parts. The first part consists of demonstrations and the second consists of psycho-physical experiments.

Hardware Kit

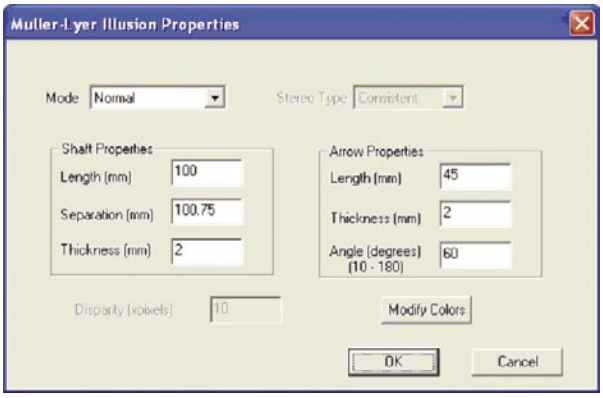
**Demonstrations:** A partial list is illustrated below and a complete list in the dialog that follows:

- **Illusions:** Muller-Lyer, Ponzo, Poggendorff, Color Assimilation
- **Apparent & relative motion:** Phi phenomenon, motion recruitment, motion in depth, cycloid motion
- **Stereo forms:** disparity-biased Necker cubes, tilted & rotated bars, Random dot stereograms: static, dynamic & moving
- **After-effects:** McCollough, motion
- **Kinetic depth:** rotating sphere, Saturn illusion, structure from motion
- **Subjective contours:** static, stereo apparent motion, & rotating subjective squares
- **Equiluminance:** heterochromatic flicker, various illusions, square & circle interposition
- **Fusional/rivalrous stimuli**
- **Tachistoscopic demos:** Sperling partial report, metacontrast masking
- **Reading demos**



**VisionLab™ (continued)**

Each of the demonstrations has a dialog box associated with it permitting the user to modify key parameters. This illustrates a guiding principle behind VisionLab. The demonstrations should be more than simple objects that students can see in books; rather they should be dynamic modifiable objects so that students may experiment on them.



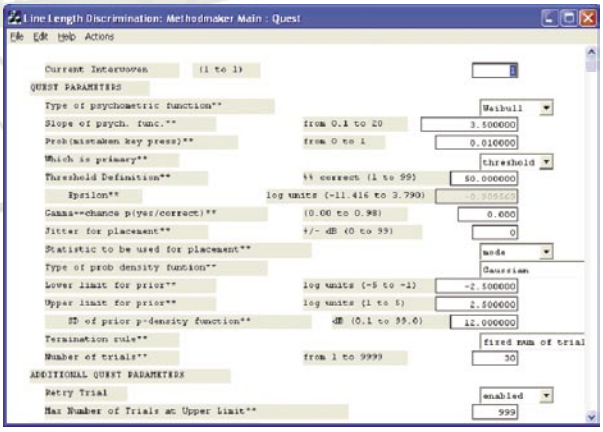

**Psycho-physical Experiments**

The user may select from a variety of psycho-physical & statistical methods to conduct experiments, collect and analyze data. The psycho-physical are: methods of adjustment, constant stimuli, staircase, quest, and signal detection.

The complete list of experiments are:

- Line Length Discrimination
- Dot Detection (permits plotting of on-center, off-surround receptive fields)
- Stereo acuity
- Spatial Frequency shift after-effect
- Stereoscopic Size Constancy
- Muller-Lyer Illusion

Sample menu that illustrates the breadth and sophistication of the psycho-physical methods:



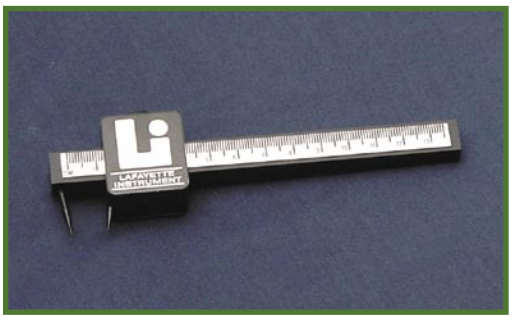

***VisionLab™ Computer Requirements:***

50 Megabytes of Hard Disk Space
Pentium II, 200MHz Processor (minimum)
Windows® 95/98, Me (system will not run on Windows® NT)
8 Megabyte VGA Card (minimum)
Sound Card (Creative Ensoniq Soundblaster recommended)

16011

**Two-Point Aesthesiometer, Model 16011**

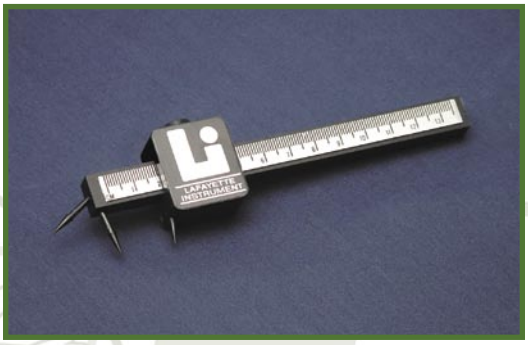
Useful in determining the two-point threshold of touch. Easy-to-read slide scales are calibrated to the nearest 0.1cm. Special vinyl tips minimize influence of temperature on sensation.



16012

**Three-Point Aesthesiometer, Model 16012**

The third point allows easy alternation between one- and two-point testing.



16010

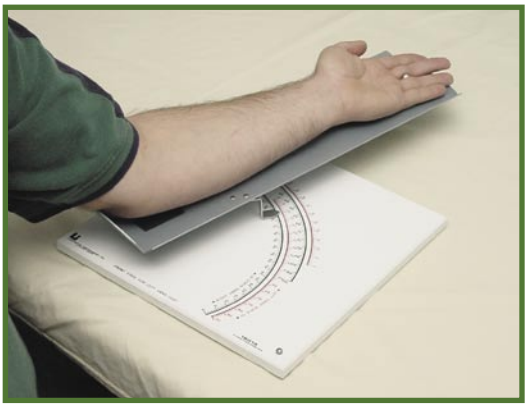
**Quality Cutaneous Sensitivity Kit, Model 16010**

Tactile kit contains all items necessary for the study of heat and cold sensitivity, touch sensitivity and pressure sensitivity. This unit, designed for use in the student laboratory, includes temperature cylinders, paradoxical heat grill, aesthesiometers, thermometer, immersion heater, carrying case, instructions and sample experiments. A blindfold may be desired, but is not included.

16014

**Kinesthesiometer, Model 16014**

This standardized tool for spatial awareness measures arm movement, is well suited for active and passive movement, or for comparing the two. An adjustable finger guide and elbow saddle increases subject comfort while keeping subject's arm in position. Units of measure are given as a degree of displacement along a 90-degree scale.



# *Schuhfried Vienna Test System (VTS)*

From the global market leader in computerized psychological diagnostics, comes the Vienna Test System (VTS), which consists of a powerful basic software and individual tests. Its use is easy and intuitive. User-friendly input devices make working with it agreeable and allows for the administration of special tests. Millisecond accuracy, modern test theory, and new scoring methods guarantee testing precision and test fairness. Use all the advantages of the PC for the administration of the tests.

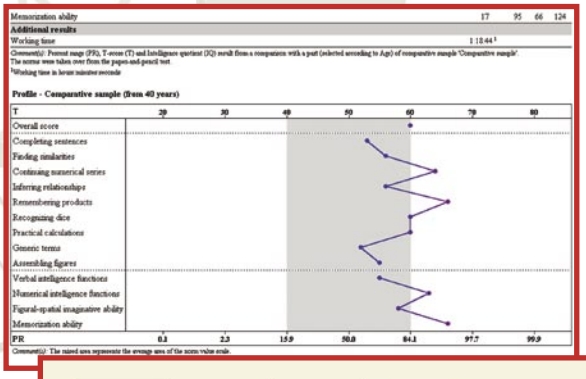
The expandability of the Vienna Test System (VTS) is tailored to the users' varying needs. You can use a laptop without any peripheral devices, when you are on the move, or you can build networks with decentralized structures.

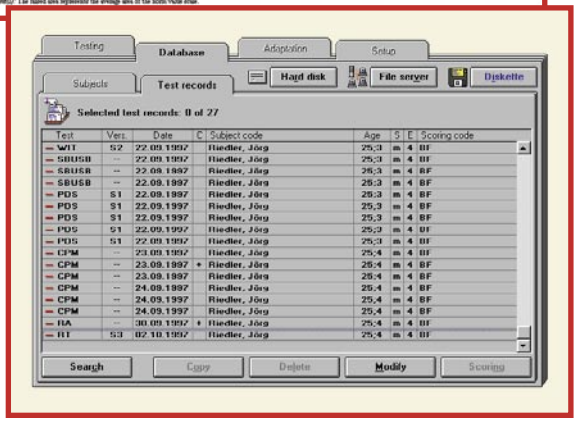

## VTS BASIC SOFTWARE, Model 64032

The VTS basic software is the administration module of the Vienna Test System.

With the basic software you present tests, score results, administer the data and adapt the software to your individual needs:

- test selection
- test presentation
- scoring
- scoring of paper and pencil tests in the VTS
- the use of your own tests in the VTS (test generator)




## VTS NETWORKS

Systems that are integrated into a network make simultaneous training for many clients possible.

VTS networks are installed, if a great number of respondents is to be tested. They consist of a test administrator work place and an almost unlimited number of respondent places.

The process of the individual test administrations is controlled centrally, and therefore the administrator has all the required information. Those taking the test can start one after the other and work at their individual speed.

*** Contact us for a full VTS catalog or demonstration CDROM.**

# *Schuhfried VTS Hardware*


## Input Devices

Many tests of the Vienna Test System (VTS) can be worked on with mouse and keyboard, but not all respondents are comfortable that way, and so they might be at a disadvantage. This is why our hardware designers developed special ergonomic input devices - e.g. the light pen - that can be used in addition to the normal PC keyboard, the mouse and the touch screen. Choose the devices that are most user-friendly for the individual tests and thus heighten the respondents' motivation and acceptance. Apart from that some tests can only be presented using special input devices and peripheral units (see Motor Performance Series).

### Light Pen, Model 64021 & Model 64022

Especially those respondents who rarely work with a PC prefer this device. Answers are entered on a normal monitor, on which so-called target points appear. These light up, when the respondent points to them directly with the light pen. A cross appears in order to signify that the answer was registered.

### Response Panels

Two special panels were developed so that answers can be entered in a user-friendly way. They can be used for the presentation of many tests:

***Response panel, standard, Model 64024***

- Seven color-keys
- Ten number keys
- One sensor key
- A connection possibility for a pedal
- USB interface

***Response panel, universal, Model 64025***

- Seven color-keys
- Ten number keys
- One sensor key
- Two control knobs
- Two analog joysticks
- A connection possibility for a pedal
- USB interface

## Extra Devices

### Motor Performance Series, Model 64030

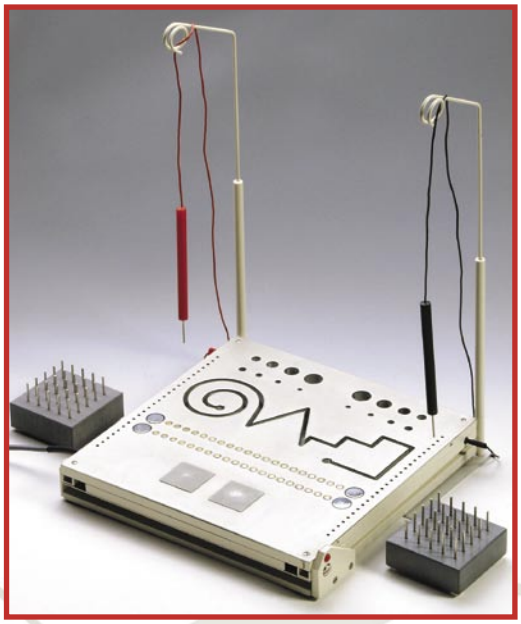
corresponding test: Motor Performance Series (MLS)

The Motor Performance Series is a highly developed and precise test that was developed according to Fleischmann's factor-analytical study of fine motor skills. Dynamic as well as static dimensions of finger-hand-arm movement are measured.

***The following six factors of fine motor skills are assessed by the MLS:***

- Aiming (of the movement)
- Hand unrest, tremor
- Precision of arm-hand movements
- Manual and finger skill
- Speed of arm and hand movement
- Wrist-finger speed

# Schuhfried VTS Hardware (continued)



***Die MLS Work Panel contains:***

- Holes of varying diameter for steadiness, for one and for both hands
- A milled crooked line for line pursuit, for one hand
- Two times 20 contact points for aiming, one or both hands
- Left and right 25 little holes each for position change, for one and both hands
- Two small metal disks for tapping, one or both hands
- USB interface

**Areas of use:** neuropsychology, clinical psychology (also rehabilitation), diagnostics of motor skills, labor and organizational psychology, aptitude diagnostics in the performance area.

## Flicker Fusion Unit, Model 64031

Corresponding test: Flicker/Fusion Frequency

- The flicker frequency analysis assesses the central nervous activation (arousal)
- Stimulus light from 10.0 to 80.0 Hertz in steps of 0.1 Hertz
- Little influence of physiological and physical disturbance variables
- USB interface

**Areas of use:** Clinical psychology, neuropsychology, psychopharmacology

## Peripheral Perception, Model 64086

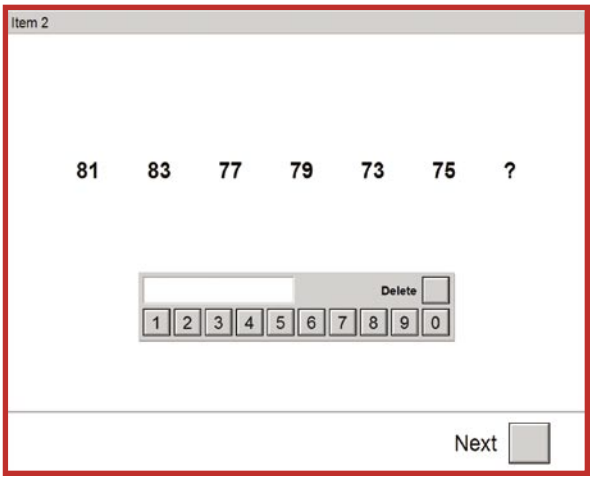
Corresponding test: Peripheral Perception

Peripheral perception controls the ability to register and to process peripheral stimuli. The respondent's attention is forced to the center of the field of vision, by letting him/her solve a tracking task. At the same time peripheral light stimuli are presented, to whom the respondent has to react in a selective way.

- Peripheral Display: Light diode matrix, 8 lines and 64 columns per side
- Light stimuli from the center to the periphery of the field of vision
- Ultra-sound distance measurement defines the position of the head
- Serial interface

**Areas of Use:** traffic psychology (90% of a driver's information use the optical channel), pharmacopsychology, flight psychology, sports psychology, labor and organizational psychology.

## *Schuhfried VTS Software - Intelligence Tests*




### Basic Intelligence Functions (IBF), Model 64033

Measurement of level and structure of intelligence; suitable for all relevant assessment purposes from the age of 13 years. The IBF tests are particularly useful as screening tools when a swift global overview of intelligence level is required. The intelligence profile can also be used as a preliminary to more detailed investigation of particular areas of ability.

### Intelligence Structure Battery (INSBAT), Model 64118

A modular intelligence test battery constructed on theory-led principles and designed to measure work-related abilities both fairly and economically. Assessment of intelligence level and intelligence structure, for subjects age 14 and over. Main areas of application: Decision-making in the fields of education, further education and career choice; ability-related aspects of aptitude assessment; educational psychology; work psychology, commercial/industrial and organizational psychology.

## *Schuhfried VTS - Non-Verbal Abilities Tests*

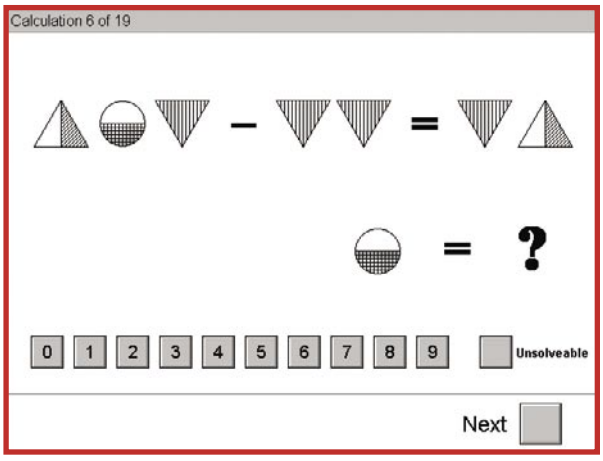
### Adaptive Matrices Test (AMT), Model 64034

This is a non-verbal test for analyzing general intelligence. The areas of application are: personnel selection and training, career, academic and educational counseling, traffic psychology, ability diagnosis, clinical-psychological diagnosis and research.

### Inductive Reasoning (FOLO), Model 64089

Non-verbal test which assesses nonverbal logical thinking on the basis of the recognition of rules and completing form sequences; applicable for people 15 years of age and over. The main areas of application include aptitude diagnostics in the performance area, industrial and organizational psychology, consulting regarding school, college and career decisions.






### Calculating with Symbols (RIS), Model 64038

Calculating with symbols aims at recording the ability to reason deductively. Simple equations are presented by means of figures which are devoid of meaning, instead of with numbers, although the algebraic symbols for elementary operations are used. The solution consists in finding the number which, when plugged into the appropriate equation in place of the symbol, makes the equation true.

## *Schuhfried VTS - General Abilities Tests*

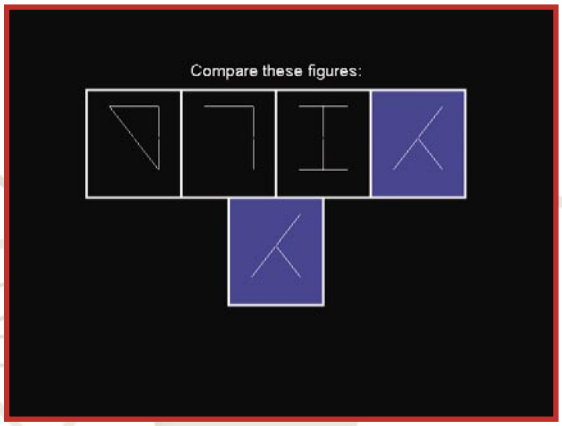
### Work Performance Series (ALS), Model 64039

General performance test measuring concentration, psychic saturation and fatigability in clinical and applied psychology, specifically in aptitude testing. Computer-assisted administration of the Pauli test.

### Adaptive test for assessment of numerical flexibility (ANF), Model 64117

The Adaptive test for assessment of numerical flexibility is a tool for assessing flexibility in the area of mathematical problem solving. This is one of the important sub-dimensions of the secondary factor "quantitative thinking" which forms part of the modified Gf-Gc theory (Horn & Noll, 1997). Main areas of application: aptitude testing, aviation psychology, educational psychology.

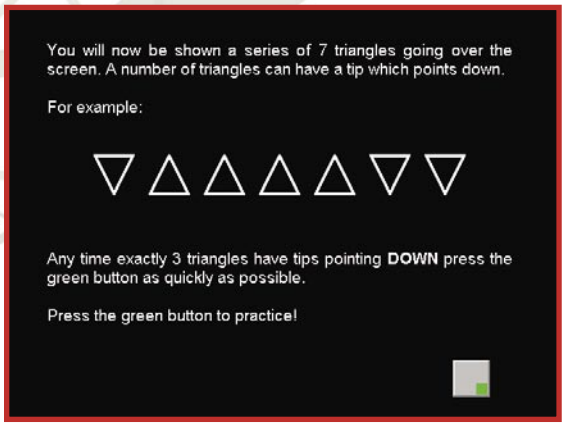
64040




### Cognitrone (COG), Model 64040

General performance test for the registration of attention and concentration, by using Vickers' "Accumulaor" Model (1970).

64041




### Continuous Attention (DAUF), Model 64041

Measurement of "Attention and concentration over extended periods" in children and adults.

### Vienna Determination Test (DT), Model 64044

Test for the measurement of reactive stress tolerance, checking ability in sustained multiple-choice reaction to rapidly changing stimuli as well as the registration of attention deficit disorder for performance and suitability diagnosis, especially in neuropsychology, traffic psychology, sport psychology and pharmacological psychology.

### Reaction Time Analysis (RA), Model 64079

Assessment of the cognitive speed concerning perception, processing and motor response organization for choice reaction tasks and visual search, to be used with adults. The main areas of application include clinical psychology, organizational psychology, traffic psychology, flight psychology, sport psychology.

## *Schuhfried VTS - General Abilities Tests (continued)*

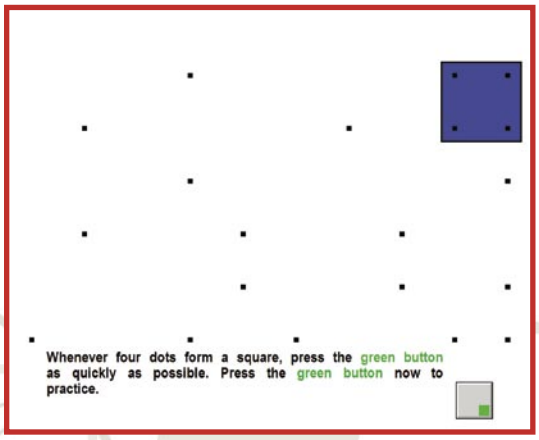
**Vienna Reaction Test (RT), Model 64045**

This test is used for the measurement of; reaction time (divided into reaction and motor time) to simple and complex optical and acoustic signals and for the registration of attention deficit disorder, progress of reaction time over a longer period of time under monotonous stimulus conditions and measurement of phasial alertness. This test is especially suited for application in performance and suitability diagnosis in, traffic psychology, sport psychology and pharmacological psychology.

64042

**Signal-Detection (SIGNAL), Model 64042**

Applied and clinical psychology for children and adults, for the measurement of the ability of visual differentiation and for the determination of neglect phenomena of a visual half-field (e.g. for neglect diagnosis).




**Vigilance (VIGIL), Model 64043**

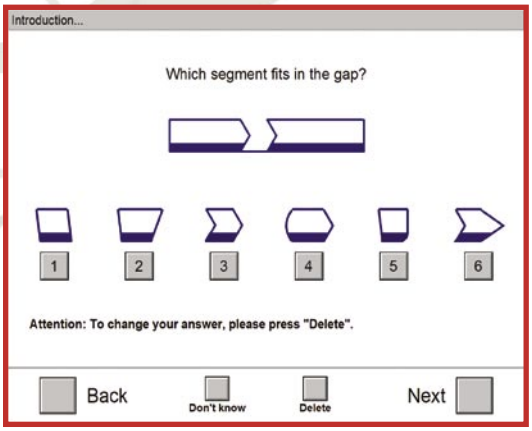
This test is used to check attention performance in the sense of "sustained watchfulness under stimulus-deficient observation situations" (vigilance), especially in clinical psychology.

## *Schuhfried VTS - Specialized Abilities Tests*

64100

**Visualization (2D), Model 64100**

Non-verbal test which assesses mental imagination and transformation of spatial arrangements in two-dimensional space; applicable at the age of 15 years and over. Main areas of application: performance-related aptitude diagnostics, clinical psychology, neuropsychology, traffic psychology, aviation psychology, industrial and organizational psychology, decisions in school, studies and career.




**Two-Hand Coordination (2HAND), Model 64059**

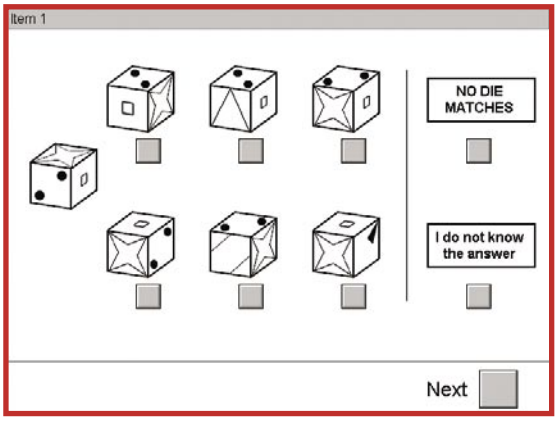
Procedure for the registration of technical-motor ability, specifically hand-eye and hand-hand coordination. It is used for performance and suitability diagnosis, especially for heavy equipment, locomotive and crane operators, as well as personnel in traffic psychology, pilot psychology, industrial psychology and for the analysis of coordination deficits in clinical groups.

**Spatial Orientation (3D), Model 64101**

Non-verbal test which assesses mental imagination and transformation of spatial arrangements in three-dimensional space; applicable at the age of 15 years and over. Main areas of application: performance-related aptitude diagnostics, clinical psychology, neuropsychology, traffic psychology, aviation psychology, industrial and organizational psychology, decisions in school, studies and career.

## *Schuhfried VTS - Specialized Abilities Tests (continued)*

64046




### Adaptive Spatial Ability Test (A3DW), Model 64046

This adaptive Test is Rasch homogenous and designed to measure the non-verbal ability to mentally represent and transform spatial conditions (spatial ability). It can be used for testing juveniles,13 years and older, and adults.

### Double Labyrinth Test (B19), Model 64081

Assessment of the eye-hand coordination ability in task of predetermined speed. Main areas of application: traffic psychology, diagnostics of motor abilities, sports psychology.

### Corsi-Block Tapping Test (CORSI), Model 64047

Examination of visual-spatial short-term memory and visual-spatial learning.

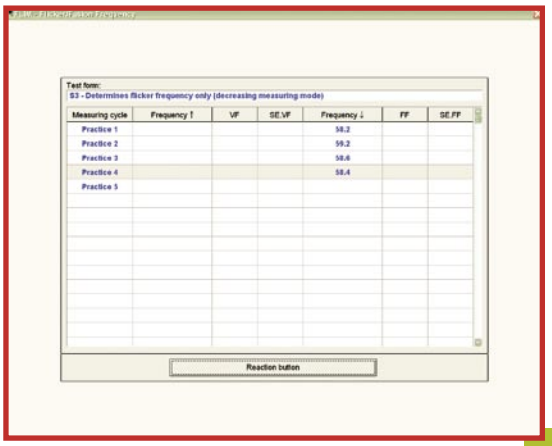
### Differential Attention Test (DAKT), Model 64095

The DAKT is primarily intended for personnel selection, career counseling, diagnosis and assessment. Additional areas of use are traffic psychology (especially railway and aviation psychology), military psychology as well as within clinical settings.

### Determination Test for Children (DTKI) , Model 64097

Measurement of reactive stress tolerance and reaction speed and assessment of attention deficits in situations requiring continuous, swift and varying responses to rapidly changing visual and acoustic stimuli. As a children's version of the well-established Determination Test (DT) the DTKI combines a measurement method which has proved its success over many years with an innovative and child-friendly mode of presentation.

64072




### Flicker Fusion Analyzer Automatic Method (FLIM), Model 64072

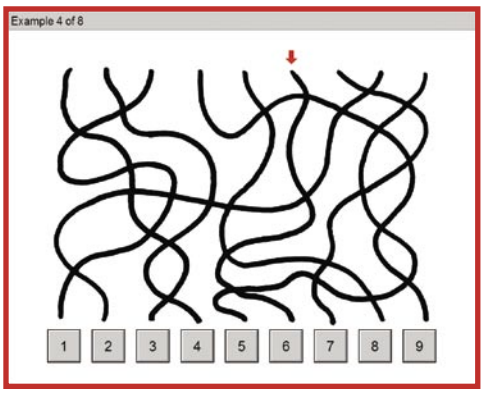
This procedure measures activation of the central nervous system, i.e. arousal, and is used in clinical psychology, neuropsychology, sports psychology, industrial psychology and, most importantly, in rehabilitation.

### Continuous Visual Recognition Task (FVW), Model 64048

Test procedure for the registration of memory performance and brain function deficits, for the diagnosis of normal, age-related and pathological memory deterioration in general performance diagnosis, pharmacology and research.

## *Schuhfried VTS - Specialized Abilities Tests (continued)*

64049




**Visual Pursuit Test (LVT), Model 64049**

This is a visual perception test for the registration of concentrated targeted perception. Line tracking tests are currently used in the context of traffic psychological examinations.

**Mill Hill Vocabulary Scale (MHV), Model 64088**

By combining the tests results from the Raven Matrices Series a clear distinction can be made between the capacity for rational judgment and the present ability to recall verbal information. The test can be used among people of all ages from 6 to 80 in educational, occupational, and clinical settings (i.e. neuropsychology) and research studies.

**Mathematics in Practice (MIP), Model 64098**

The test is basically conceived for personnel selection, vocational counseling, diagnosis and aptitude assessment. Additional areas of use are within clinical settings. Main areas of application: industrial and organizational psychology, clinical psychology.

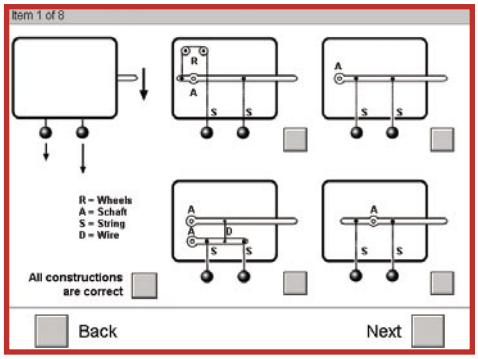
**Motor Performance Series (MLS), Model 64051**

This procedure for the measurement of fine motor ability is applied in the fields of neuropsychology, neurology, developmental psychology, work placement, pharmacological psychology, sport psychology and rehabilitation.

**Mental Rotation (MR), Model 64115**

Mental Rotation is a Rasch homogenous computerized test for assessing respondents' spatial perception skills. This is, in other words, the respondent's ability to mentally picture and manipulate spatial content; the test was designed for adolescents from the age of 16 and adults. Areas of use include: vocational, education and career counseling, as well as counseling in the context of university studies, personality development, skills assessment in psychological practice and in the clinical area (e.g. neurology and psychiatry). The MR can also be used for research purposes.

64050



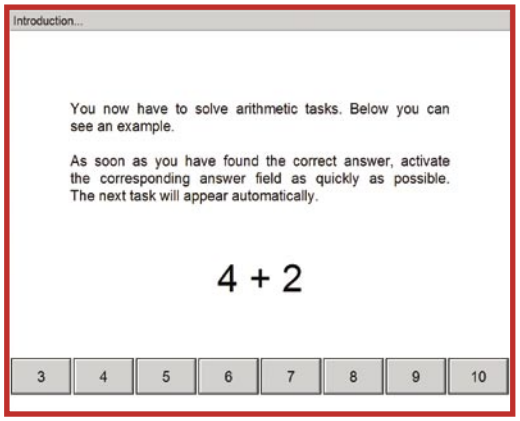

**Mechanical-Technical Perceptive Ability (MTA), Model 64050**

This test of mechanical-technical perceptive ability belongs to the group of special ability checking and suitability tests and it measures mechanical-technical comprehension. This test is applied in selection tests and suitability examinations.

## *Schuhfried VTS - Specialized Abilities Tests (continued)*

### N-Test Alpha (NTA), Model 64099

64099




The test is basically conceived for personnel selection, vocational counseling, diagnosis and aptitude assessment. Additional areas of use are within clinical settings. Main areas of application: clinical psychology, industrial and organizational psychology.

### Non-Verbal Learning Test (NVLT), Model 64052

This test examines a subject's ability to remember memory material that is difficult to verbalize. It may be administered both to healthy subjects and to patients with cerebral defects for the purpose of assessing specific memory disorders. In combination with its verbal equivalent, the Verbal Learning Tests (VLT), it can be used to assess material-specific learning disorders in the diagnosis of amnesia.

### Perseveration Test (PERSEV), Model 64053

Determination of perseverance tendency in children and adults, especially for diagnostic purposes in clinical subjects and use in rehabilitation and research.

### Peripheral Perception (PP),Model 64082

This test was designed to assess the perception and processing of peripheral visual information. The main areas of application include traffic psychology, pharmacology, aviation psychology, sports psychology, industrial and organizational psychology.

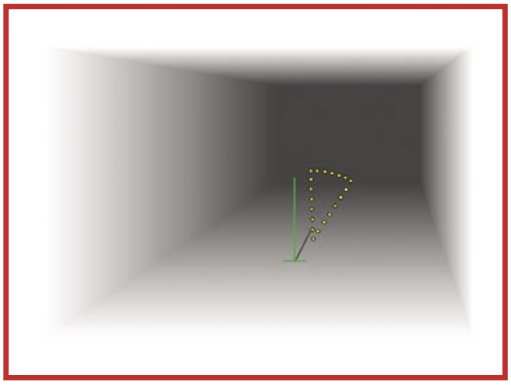
### Pilot's Spatial Test (PST), Model 64054

A Rasch-homogeneous procedure assessing navigation skills and orientation in space. This test has high power in the upper range of performance in ability and aptitude testing, in traffic psychology (specifically aeronautics and space travel), and in industrial medicine.

### Simultaneous Capacity / Multi-Tasking (SIMKAP), Model 64076

SIMKAP is primarily intended for personnel selection, career counseling, diagnosis and assessment. Additional areas of use are traffic psychology (especially railway and aviation psychology), military psychology as well as within clinical settings.

64055

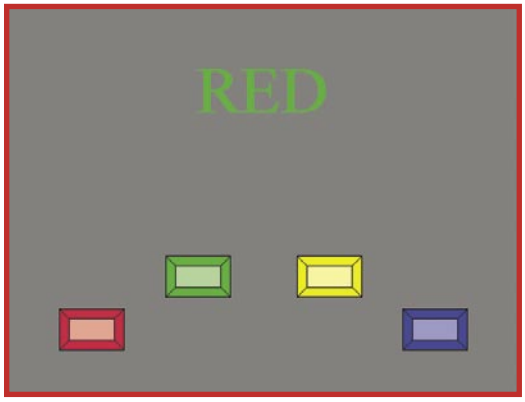


### Sensomotor Coordination (SMK), Model 64055

Test for measuring sensory-motor coordination, especially hand-eye and two-hand coordination. It is used for performance and suitability diagnosis, especially for heavy equipment, locomotive and crane operators, as well as personnel in traffic psychology, pilot psychology, industrial psychology and for the analysis of coordination deficits in clinical groups.

## *Schuhfried VTS - Specialized Abilities Tests (continued)*

64071




**Interference Test According to Stroop (STROOP), Model 64071**

Color-word interference tests based on the Stroop effect have gained particular importance in clinical neuropsychology. It was found in this field that under interference conditions patients with cerebral defects required significantly more time to complete the test and that the STROOP test represented a reliable means of differentiating between patients and healthy subjects (cf. Perret, 1974 in Wittling, 1983, Beaumont, 1987). In addition, the test provides indications of the existence of any dysfunction of the frontal lobes, which may cause the patient's attention to be more easily diverted and a perseverance tendency (stereotyped behavior) to be observed.

**Tachistoscopic Traffic Test Manheim for Screen (TAVTMB), Model 64056**

Checking of optical perception performance in traffic psychology.

**Verbal Learning Test (VLT), Model 64057**

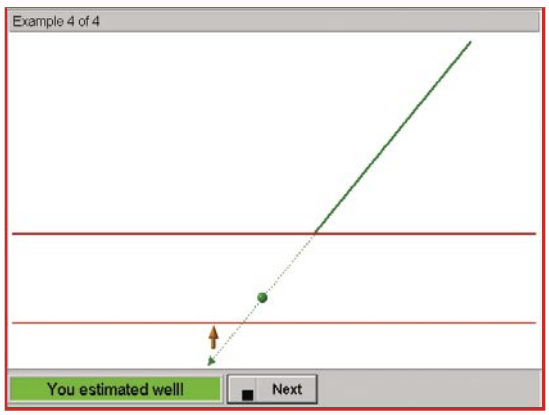
This test is used to examine the learning ability for verbal memory material. It can be used for testing healthy persons as well as to assess specific disorders of memory functions occurring after brain damage. Measuring material-specific learning disorders, especially in context of amnesia diagnoses, not only this test but also its non-linguistic equivalent, the Non-Verbal Learning Test (NVLT), should be applied.

**Functions of Perception and Attention (WAF) , Models 64119, 64120, 64121, 64122, & 64123**

Assessment of sub-functions of attention, suitable for subjects from the age of 8.
The WAF test battery consists of 6 tests which can be administered independently of each other or, as a test battery, in any desired combination:

- WAFA, Model 64119 - Alertness
- WAFV, Model 64123 - Vigilance / sustained attention
- WAFF, Model 64120 - Focused attention
- WAFS, Model 64122 - Selective attention
- WAFG, Model 64121 - Divided attention
- WAFR (currently in development) - Spatial direction of attention and visual field / extinction - neglect

64058

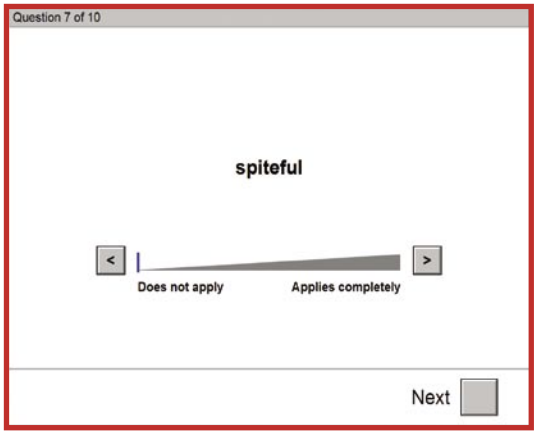



**Time-Movement Anticipation (ZBA), Model 64058**

A test of the estimation of the motion of objects in a space.
Used in traffic and aviation psychology.

64083

## *Schuhfried VTS - Personality Structure Tests*




### 4-Dimensional Personality Inventory (4DPI), Model 64083

The 4DPI is a Rasch-homogenous personality structure test, where the answers are given in a wedgeshaped diagram. Main areas of application: personalityoriented aptitude diagnostics, industrial psychology, clinical psychology.

### Aggression Assessment Method (AGDIA), Model 64124

The AGDIA makes it possible to analyze and differentiate type and degree of aggressive behavior. Main areas of application: clinical psychology and health psychology.

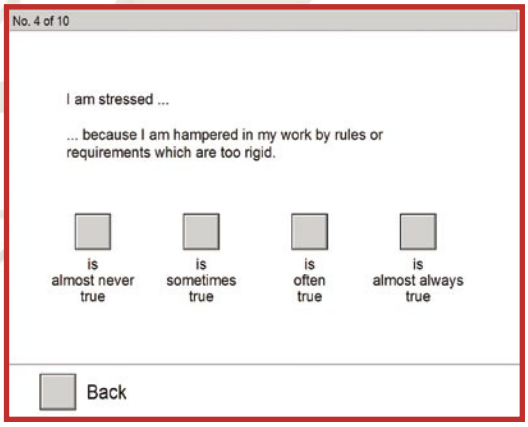
### Attitude Towards Work (AHA),Model 64060

This test procedure is applicable for the purposes of career suitability diagnosis.

### Aggressive Driving Behavior (AVIS), Model 64084

With the AVIS a valid test for the self-evaluation of aggressive behavior in road traffic is available. What is special about this test is that normal situations and stressful ones are compared. The test serves to record the extent and frequency of aggressive way of behavior in traffic. Main area of application: traffic psychology.

64125




### Differential Stress Inventory (DSI), Model 64125

The Differential Stress Inventory makes it possible to measure and differentiate between stress triggers, symptoms of stress, available coping strategies and risks of stress stabilisation. Both the extent and the cause of stress are identified. Main areas of application: work psychology, company and organisation psychology, health psychology, clinical psychology.

### Eysenck Personality Profiler-V6 (EPP6), Model 64093

Multi-dimensional modular personality inventory for the assessment of the three dimensions extroversion, emotionality, and adventurousness according to Eysenck. Main areas of application: aptitude testing regarding personality traits, occupational and organizational psychology, traffic psychology, aviation psychology, sports psychology, clinical psychology, and health psychology.

### Test of Leadership Ability (FET), Model 64062

The Leadership Ability Test was developed as an aid to the determination of personal suitability for taking on leadership responsibility. The Leadership Ability Test can be used to select and train managers. This test can, however, also be used as an orientation aid for all those considering aiming for a leadership position - in order to realize their development needs.

## *Schuhfried VTS - Personality Structure Tests (continued)*

**Hyperkinetic Syndrome Assessment Method (HKSD) , Model 64126**

The HKSD is a Rasch homogeneous objective personality test with child-oriented item material to measure the style of work for pre- school and primary school pupils. During the execution of the test the item material is changed systematically with regard to complexity, difficulty, motivation and feedback and the reaction of the child in performance capacity and style of work is observed. Aside of the child's performance capacity in the intelligence dimension of perceptual speed, the dimensions of work style reflexivity, adaptation to difficulty, receptiveness towards motivation and adjustment to feedback are measured and permit a subtly differentiated examination for causes of inefficiencies in performance at school. Additionally, in contrast to common questionnaires or ratings by significant others, a psychometrically objective screening of work style related aspects of the hyperkinetic syndrome can be carried out. Applicable to people aged 5 and above.

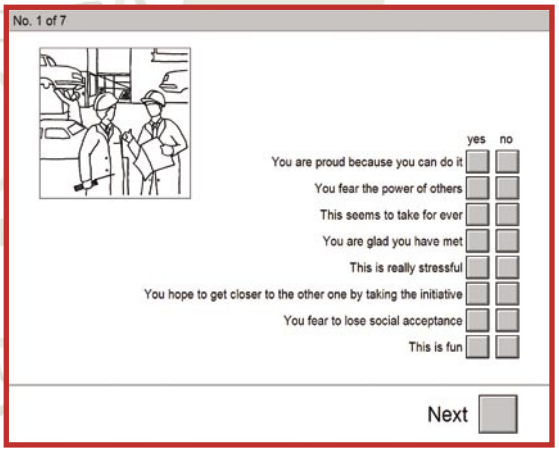
**Inventory of Driving Related Personality Traits (IVPE), Model 64114**

The IVPE is used to capture the traffic psychologically relevant personality features of sensation seeking, social sense of respon- sibility, self-control and emotional stability, all in the context of traffic psychological assessments. Main areas of application: traffic psychology.

64104

**Multi-Motive-Grid (MMG), Model 64104**

The MMG combines aspects of the Thematic Apperception Test (TAT) with those of classic questionnaires. Similar to the TAT, 18 pictures are presented which provide a well-balanced set of situations linked to performance, control, and social acceptance. These pictures are accompanied by statements that represent important motivational states.




**Objective Achievement Motivation Test (OLMT), Model 64116**

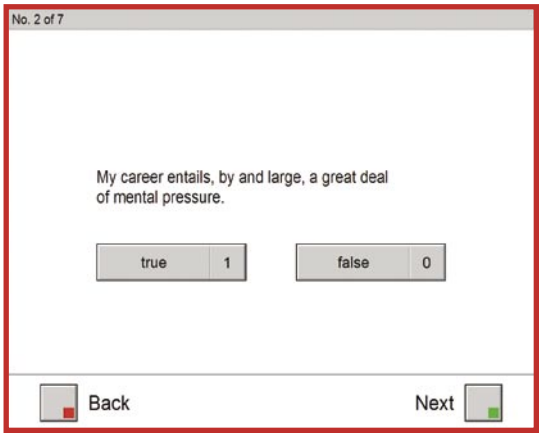
The Objective Achievement Motivation Test (OLMT) is a computerized test for behaviorally assessing achievement motivation. It provides information on the effort put into working the test under differing and important basic motivating conditions. The main areas of application include: aptitude testing in personality applications, labor psychology, industrial psychology and organizational psychology, supporting decision-making processes in educational, university and occupational matters, and sports psychology.

**Risk Choice (RISIKO), Model 64127**

On the basis of its features as an objective personality test the risk choice behavior is considerably more tamper-resistant than a questionnaire test. Captures the general willingness to take risks. Main areas of application: traffic psychology, occupational and organizational psychology.

## *Schuhfried VTS - Personality Structure Tests (continued)*

64063




**Scales for the Registration of Subjective Strain and Dissatisfaction (SBUSB), Model 64063**

This questionnaire is designed to measure stress and dissatisfaction at work. It is advisable to use it in work- and health-psychological examinations.

**Scales for Service and Client Orientation (SKASUK), Model 64105**

All efforts to reach demanding levels of performance criteria notwithstanding, it must not be forgotten that success in sales or the service industry lies in providing a service for other people. This test is very suited to examine this issue, not least because of its extensive calibration sample.

**Temperament and Character Inventory (TCI), Model 64106**

This test measures four temperament dimensions and three character dimensions (main dimensions) as well as 24 dimensions of a lower order. The main areas of application include clinical psychology and health psychology.

**Vienna Risk-Taking Test -revised version (WRBTR), Model 64128**

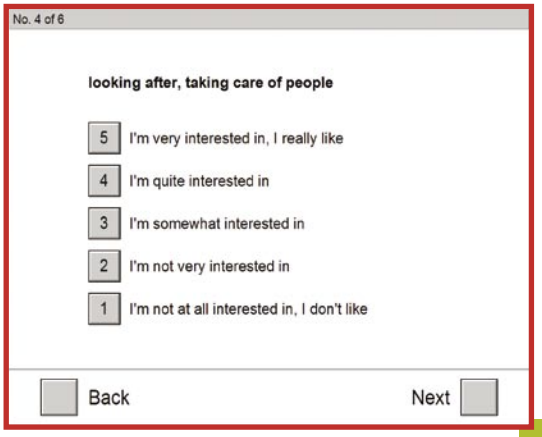
Assessment of the individual willingness to take risks. Main areas of application: industrial and organizational psychology, assessment of the individual willingness to take risks.

**Vienna Risk-Taking Test Traffic (WRBTV), Model 64094**

Test battery to assess the willingness to take risks with items using the latest multimedia technology. Main areas of application: traffic psychology, industrial and organizational psychology.

64064

## *Schuhfried VTS - Attitudes and Interest Tests*

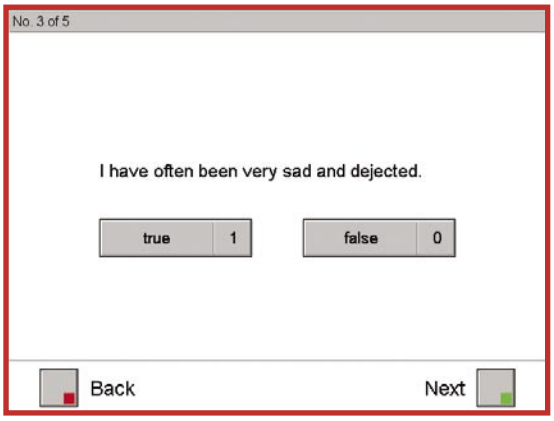



**General Interest Structure Test (AIST), Model 64064**

This is a differential test for the determination of academic-professional interests from the age of 14. This concept has specific application in school and career counseling.

## *Schuhfried VTS - Clinical Procedures*

64065




**Alcoholic Selection Procedure (ATV), Model 64065**

Test for drivers with alcohol problems.

**Questionnaire for the Determination of Suicide Risk (FBS), Model 64066**

This serves to determine suicidal-depressive personality states in juveniles 17 through adult, in the clinical field.

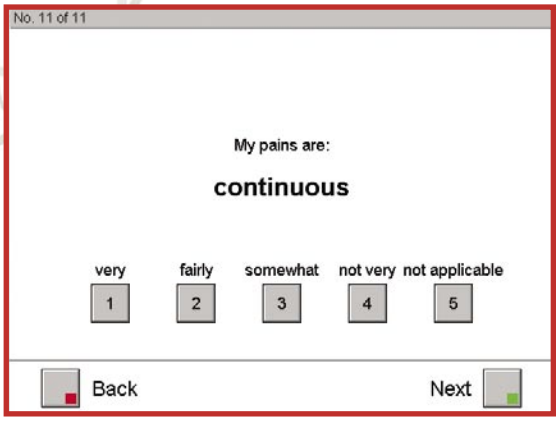
**Questionnaire Concerning Functional Drinking (FFT), Model 64067**

Self-assessment questionnaire for the registration of the subjectively felt mental and social function of alcohol drinking.

**Questionnaire Concerning Reaction to Pain (FSV), Model 64068**

This questionnaire on reaction to pain is a multi-dimensional instrument for the registration of pain-related behavior. It was developed for the diagnosis of patients with chronic pains. The results can provide instructions for the determination of indications for psychological pain therapy as well as for a treatment plan. Based on its economical handling, the test is also suited for checking the progress of therapy.

64069




**Multi-Dimensional Pain Scale (MSS), Model 64069**

This multi-dimensional pain scale is a test for qualitative and quantitative pain measurement.

## *Schuhfried VTS - Test Construction Programs*

**Test Questionaire Generator (TQ), Model 64090**
**Tachistoscope Test Generator (TT), Model 64091**

These two program packages enable the user to design, administer and score thier own test procedures with the Schuhfried VTS. These programs are authoring systems, i.e. they assist test authors in designing computer-assisted tests. Knowledge of a programming language is not required.

## *Schuhfried VTS - Input Devices:*

Each test in the Vienna Test System requires a different input device for administration. Below is a table listing the required input device for each test. The VTS Basic Software, Model 64032, and the VTS USB Dongle (small USB "stick" that unlocks the tests on your computer), Model 64092 are required for all tests.

| TEST NAME: | INPUT DEVICES: |
|---|---|
| ***Intelligence Tests*** | |
| IBF | * |
| INSBAT | Keyboard or Mouse |
| ***Non-Verbal Intelligence Tests*** | |
| AMT | * |
| FOLO | * |
| RIS | * |
| ***General Ability Tests*** | |
| ALS | Response Panel |
| ANF | Mouse |
| COG | Keyboard or Response Panel |
| DAUF | Keyboard or Response Panel |
| DT | Response Panel, Foot Pedals, Headphones |
| RA | Response Panel |
| RT | Response Panel |
| SIGNAL | Keyboard or Response Panel |
| VIGIL | Keyboard or Response Panel |
| ***Special Ability Tests*** | |
| A3DW | * |
| B19 | Universal Response Panel |
| CORSI | Light Pen or Touchscreen |
| DAKT | Mouse |
| DTKI | Response Panel |
| FLIM | Flicker Fusion Unit |
| FVW | Keyboard or Response Panel |
| GESTA | Mouse |
| LVT | Keyboard or Response Panel |
| MHV | * |
| MIP | Light Pen or Mouse or Touchscreen |
| MTA | * |
| MLS | MLS Work Panel |
| MR | Keyboard or Response Panel |
| NTA | Light Pen or Mouse or Touchscreen |
| NVLT | Keyboard or Response Panel |
| PP | Peripheral Hardware, Universal Response Panel, Foot Pedals |
| PERSEV | Light Pen or Touchscreen |
| PST | Light Pen or Touchscreen |
| SMK | Universal Response Panel, Analog Foot Pedals |
| SIMKAP | Touchscreen or Mouse, Soundcard |
| STROOP | Response Panel, Light Pen, Touchscreen |
| TAVTMB | * |
| VISGED | Mouse |
| VLT | Keyboard or Response Panel |
| WAFA | Keyboard or Response Panel |
| WAFF | Keyboard or Response Panel |
| WAFG | Keyboard or Response Panel |
| WAFV | Keyboard or Response Panel |
| WAFS | Keyboard or Response Panel |
| ZBA | Keyboard or Response Panel |
| 2HAND | Universal Response Panel |
| 2D | Light Pen, Mouse or Touchscreen |
| 3D | * |

| TEST NAME: | |
|---|---|
| ***Personality Structure Tests*** | |
| 4DPI | * |
| AGDIA | Light Pen, Mouse, or Touchscreen |
| AHA | Mouse |
| AVIS | * |
| DSI | * |
| EPP6 | * |
| FET | * |
| HKSD | Keyboard, or Response Panel |
| IVPE | * |
| MMG | Light Pen, Mouse, or Touchscreen |
| OLMT | Keyboard, or Response Panel |
| RISIKO | Universal Response Panel |
| SBUSB | * |
| SKASUK | * |
| TCI | * |
| WRBTV | Keyboard, or Mouse, or Response Panel |
| WRBTR | Keyboard, or Mouse, or Response Panel |
| ***Attitude and Interest Tests*** | |
| AIST | * |
| ***Clinical Tests*** | |
| ATV | * |
| FBS | * |
| FFT | * |
| FSV | * |
| MSS | * |

"*" ***Choice of Input Devices:***
**Response Panel,**
**Light Pen,**
**Keyboard,**
**Mouse,**
**or Touchscreen**

(see Hardware on page 24)

## *Schuhfried VTS - Tests, listed by fields of application:*

| FIELD OF APPLICATION: | Aptitude Diagnostics – personality traits | Aptitude Diagnostics – potential analysis | Diagnostics concerning motor behavior | Clinical Psychology | Neuropsychology | Traffic Psychology | Aviation Psychology | Sports Psychology | Occupational and organizational psychology | Decisions concerning school, college, university career | Pedagogical psychology | Health psychology | Medical and pharmaceutical fields |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2D | ☐ | ☑ | ☐ | ☑ | ☑ | ☑ | ☑ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ |
| 2HAND | ☐ | ☑ | ☑ | ☑ | ☐ | ☑ | ☐ | ☑ | ☑ | ☑ | ☑ | ☐ | ☑ |
| 3D | ☐ | ☑ | ☐ | ☑ | ☑ | ☑ | ☑ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ |
| 4DPI | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ |
| A3DW | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ |
| AGDIA | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ |
| AHA | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☑ | ☑ | ☑ | ☐ | ☐ | ☐ |
| AIST | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ |
| ALS | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ |
| AMT | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☑ | ☑ | ☑ | ☑ | ☐ | ☐ | ☐ |
| ANF | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ |
| APM | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☑ | ☑ | ☑ | ☑ | ☐ | ☐ | ☐ |
| ATV | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| AVIS | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| B19 | ☐ | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ |
| COG | ☐ | ☑ | ☐ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☐ | ☑ |
| CORSI | ☐ | ☐ | ☐ | ☑ | ☑ | ☑ | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☐ |
| CPM | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☐ |
| DAKT | ☐ | ☑ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ |
| DAUF | ☐ | ☑ | ☐ | ☑ | ☑ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ |
| DSI | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ |
| DT | ☐ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☐ | ☑ |
| EPP6 | ☑ | ☐ | ☐ | ☑ | ☐ | ☑ | ☑ | ☑ | ☑ | ☑ | ☐ | ☑ | ☑ |
| FBS | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| FET | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ |
| FFT | ☐ | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| FLIM | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ |
| FOLO | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ |
| FSV | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| FVW | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☑ |
| GESTA | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ |
| HKSD | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☑ | ☑ | ☐ | ☐ |
| IBF | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☑ | ☑ | ☑ | ☑ | ☑ | ☐ | ☐ |
| INSBAT | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☑ | ☑ | ☑ | ☑ | ☑ | ☐ | ☐ |
| IVPE | ☑ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

| FIELD OF APPLICATION: | Aptitude Diagnostics – personality traits | Aptitude Diagnostics – potential analysis | Diagnostics concerning motor behavior | Clinical Psychology | Neuropsychology | Traffic Psychology | Aviation Psychology | Sports Psychology | Occupational and organizational psychology | Decisions concerning school, college, university career | Pedagogical psychology | Health psychology | Medical and pharmaceutical fields |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LVT | ☐ | ☑ | ☐ | ☐ | ☐ | ☑ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | ☐ |
| MHV | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☑ | ☑ | ☐ | ☐ |
| MIP | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ |
| MLS | ☐ | ☑ | ☑ | ☑ | ☑ | ☐ | ☐ | ☑ | ☑ | ☑ | ☑ | ☐ | ☑ |
| MMG | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ |
| MR | ☐ | ☑ | ☐ | ☑ | ☑ | ☐ | ☑ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ |
| MSS | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ |
| MTA | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☑ | ☑ | ☑ | ☐ | ☐ |
| NTA | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☑ | ☑ | ☐ | ☐ |
| NVLT | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ |
| OLMT | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☑ | ☑ | ☑ | ☐ | ☐ |
| PERSEV | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☐ | ☑ | ☐ | ☑ | ☑ | ☐ | ☐ |
| PP | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☑ | ☑ | ☑ | ☐ | ☐ | ☐ | ☑ |
| PST | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| RA | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☑ | ☑ | ☑ | ☐ | ☐ | ☐ | ☐ |
| RIS | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ |
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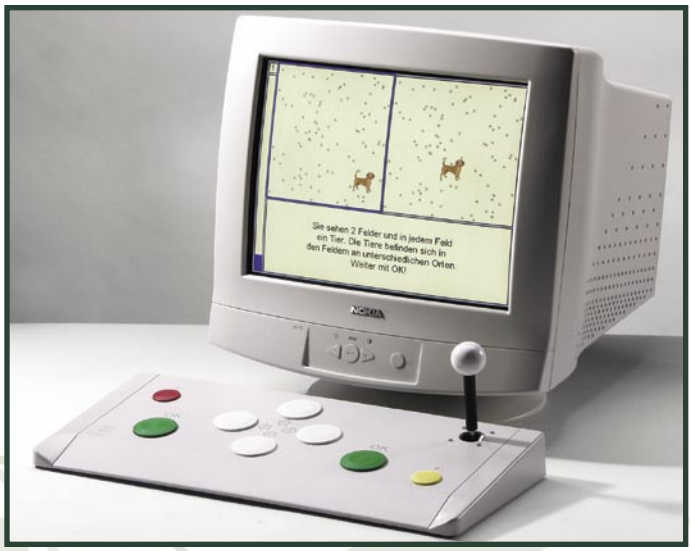
| RT | ☐ | ☑ | ☑ | ☑ | ☐ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☐ | ☑ |
| SBUSB | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ |
| SIGNAL | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☑ | ☑ | ☑ | ☑ | ☑ | ☑ | ☐ |
| SIMKAP | ☐ | ☑ | ☐ | ☑ | ☑ | ☐ | ☑ | ☑ | ☑ | ☐ | ☐ | ☐ | ☐ |
| SKASUK | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ |
| SMK | ☐ | ☑ | ☑ | ☑ | ☐ | ☐ | ☑ | ☑ | ☑ | ☐ | ☐ | ☐ | ☑ |
| SPM | ☐ | ☑ | ☐ | ☑ | ☐ | ☑ | ☑ | ☐ | ☑ | ☑ | ☐ | ☐ | ☑ |
| SPMPLS | ☐ | ☑ | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☑ | ☑ | ☐ | ☐ | ☑ |
| STROOP | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| TAVTMB | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| TCI | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ |
| VIGIL | ☐ | ☑ | ☐ | ☑ | ☑ | ☐ | ☑ | ☑ | ☑ | ☑ | ☑ | ☐ | ☐ |
| VISGED | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☑ | ☑ | ☐ | ☐ | ☑ |
| VLT | ☐ | ☐ | ☐ | ☑ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ |
| WRBTR | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ |
| WRBTV | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | ☐ | ☑ | ☐ | ☐ | ☐ | ☐ |
| ZBA | ☐ | ☐ | ☐ | ☐ | ☐ | ☑ | ☑ | ☑ | ☐ | ☐ | ☐ | ☐ | ☐ |

Legend: ☑ main fields of application
☑ other fields of application

# Schuhfried RehaCom

RehaCom is a computer-assisted therapy system for cognitive functions. The system consists of a basic program and a number of training procedures. All of the procedures have varying levels of difficulty in support of the training for the following cognitive functions: Attention, Memory, Logical Reasoning, Field of Vision and Reaction Capabilities.



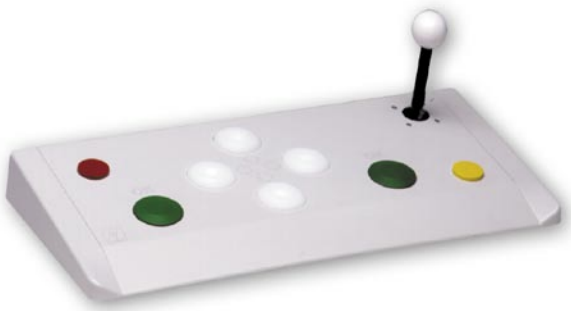
Cognitive disorders are usually the result of brain damage. The computer is an ideal instrument to train cognitive functions with the added advantage that it relieves the therapist from routine work. RehaCom adjusts to the patients' skills by adaptive presentation of tasks. Thus, the stress balance of the patient is maintained, which increases the motivation for the therapy.

The input for every RehaCom task is a special panel with clearly arranged buttons. Results of all training sessions are stored for each patient, this guarantees a continuous training course (a new session starts where the last one ends) and monitors the success of the therapy. The adaptive concept and the extensive item-pool provides a tailored course of training for each patient. Presentation of tasks is adjusted to the current capabilities of a patient. Error-specific feedback develops the learning processes and supports the development of learning strategies. There are currently over 700 RehaCom systems being used in outpatient departments, university clinics, rehabilitation centers and hospitals. The system is available in 10 different languages.

## RehaCom Test System Configuration

Obligatory Training System Components:

- Either the RehaCom Dongle Model 64001 (software key) or the RehaCom Panel Model 64000 is required to operate the main software.



Training System Optional Components:

- Each of the tests are considered an optional component of the system. They may be purchased in the form of a 7-year, unlimited usage license or in quantities of 100 administrations. The model numbers in this catalog reflect the 7-year, unlimited usage license. Unlike the VTS all RehaCom tests use the test panel or mouse, no additional hardware is needed.

Configuration:

- Personnel at Lafayette Instrument Company can configure the Schuhfried RehaCom to fit your testing needs.

## *The following is a listing of the available test modules:*

### Attention and Concentration (AUFM), Model 64003

Functionally and organically caused attention disturbances represent the most widespread neuro-psychological performance deficits after an acquired brain damage. They can be found in 80% of the patients after a stroke, a brain trauma, diffuse organic brain impairments, as well as with other diseases of the central nervous system. This training is suitable for patients 11 years of age, and older, with attention and concentration disturbances. Based on the pattern-comparison method, the patient has to find the picture from a matrix which corresponds exactly to the "comparison picture".

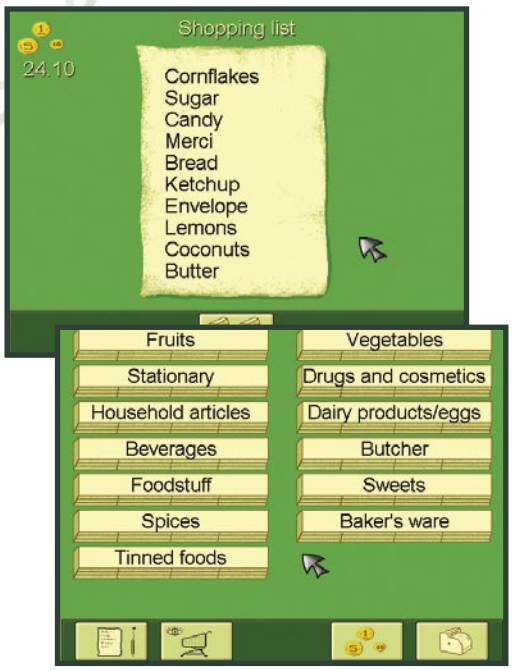
### Figural Memory (BILD), Model 64004

64004


This training is recommended for all memory disturbances (especially for the working memory) for verbal and non-verbal contents. The program can also be used on patients with an organically or functionally caused – impaired ability to name objects and difficulties in conceptual pairing. The patient has to memorize pictures with concrete (describable) objects. After the "learning phase", descriptive terms for the objects will roll across the screen. The patient will then press the "OK" button when the correct term for the objects from the "learning phase" roll by. Figural Memory can be used in patients 11 years of age and older, when a average vocabulary can be assumed.

### Shopping (EINK), Model 64005

64005




This training is recommended for patients with deficits in working memory, concept attainment or planning an action sequence. It allows the realistic training of an everyday situation, shopping in a supermarket. All necessary steps are realistic. The planning of an action and its coordination will be trained thoroughly as well as the short-time memory (length of time between looking into the shopping cart and looking at the shopping list). Furthermore, it is possible to train patients 11 years of age and older, to maintain their mental abilities.

### Divided Attention (GEAU), Model 64006

This training is recommended for patients with problems in focusing attention to several different objects simultaneously. In this situation, like in everyday life, several circumstances must be observed simultaneously. Like an engine driver, the patient should monitor the driver's cab, regulate the speed and react towards different signals during the "journey". Due to the animated presentation, this training is suitable for patients 11 years of age and older.

**Physiognomic Memory (GESI), Model 64007**

This training is for patients suffering from prosopagnosia, the ability to recognize faces and make a meaningful association with them. It realistically practices the pairing of faces to a name and occupation. Faces are displayed from different sides. The patient then decides if the picture of the person has already been shown. In higher levels of difficulty, the patient should also try to memorize additional verbal information regarding the person (name, occupation).

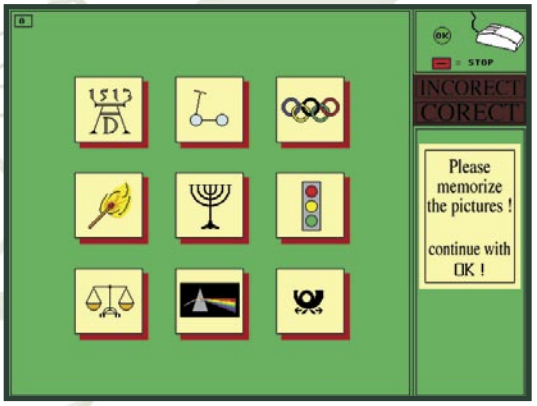
**Visuo-Constructive Abilities (KONS),Model 64008**

This training is recommended for patients with a light or medium decline in the capacity of the visuo-constructive field as well as other generalized functional disorders. Often one can observe such a generalized decline in performance in organic brain damages. This training program can train visual reconstruction of concrete pictures. The patient has to memorize a displayed picture in every detail. Afterwards, it will be divided in several puzzle pieces, the patient has to reconstruct the picture correctly. The training is suitable for patients 8 years of age and older.

**Logical Reasoning (LODE), Model 64009**

This training is aimed to improve logical reasoning. It is indicated for patients with acquired cerebro-organic damage, when an impairment in logical thinking can be observed. In this program, the patient should add the correct symbol to a column of symbols that is constructed following a logical rule.

64010



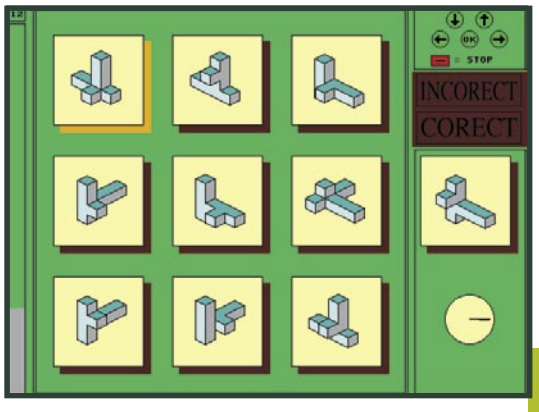

**Topological Memory (MEMO), Model 64010**

This training is given for all memory disorders or impairments regarding verbal and non-verbal contents. With this program, topological memory is trained. Like in the memory game, the patient should memorize the position of cards with pictures or geometric figures on them. When the cards are hidden, the patient should remember which picture was in what space.

**Verbal Memory (VERB), Model 64013**

This training is intended to improve short-term retention. Short stories are presented and patients should memorize as many details as possible. In the reproduction phase, questions concerning the details will be answered. The training is suitable for patients 11 years of age and older.

64011




**Spatial Operations (RAUM), Model 64011**

This training is designed to provide training of the basic functions of spatial perception. It trains visual or spatial imagery with tasks in the following categories: estimation of position, estimation of angular position, estimation of volume and estimation of size. Using non-verbal material minimizes the demands on verbal comprehension therefore enabling this application to be used for patients with speech disorders.

**Reaction Behavior (REVE), Model 64012**

This training is designed to improve respondent behavior of single and multiple choice reactions (speed and accuracy) towards optical signals. On the edge of the screen, one can see pictures of traffic signs. Next to it, a key of the panel is displayed which should be pressed by the patient when the traffic sign appears in the middle of the monitor. Thus, attention and memory are jointly trained. This training is indicated for all patients with response speed reduction induced by the central nervous system.

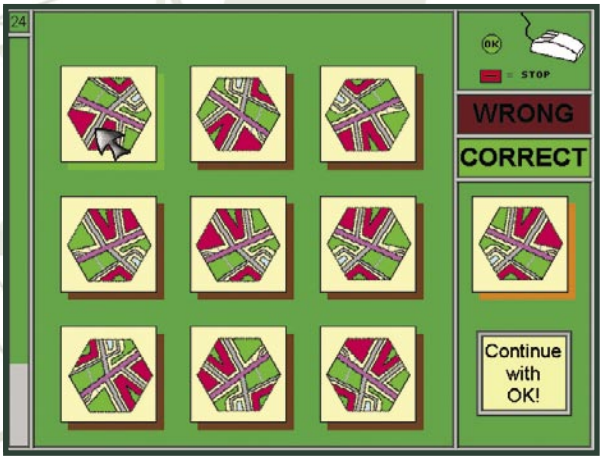
**Vigilance (VIGI), Model 64014**

This training is recommended for all disorders or impairments of the longer-term (continuous) attention of different etiology and genesis. The ability to maintain one's attention over a longer period of time, is trained in a design with limited response time for each item. The task of the patient is to monitor a conveyor belt, and to select the objects that differ from a sample object in one or several details.

**Two-Dimensional Operations (VRO1),Model 64015**

This training is recommended for patients where a decline in the performance in visual-constructive tasks, items of the position-in-space exploration, as well as in spatial orientation, are observed. This program trains the positioned relationship with two-dimensional presentation. The task is to find the picture of a matrix which exactly corresponds to a "comparison picture".

64015




**Visuo-Motor Coordination (WISO), Model 64016**

The training is recommended for the rehabilitation of patients with disorders in visuo-motor coordination. A cursor (dot - abstract or a butterfly – concrete) and a rotor (circle – abstract or a flower – concrete) of different color are displayed on the screen. The patient uses a joystick to hold the cursor into the middle of the rotor and should then follow the movements of the rotor.

**Memory for Words (WORT), Model 64017**

This training is designed for patients with an impairment of the word span or reduced recognition capability, as in the early stages of amnesic syndrome. With this program, the recognition capability for individual words is trained. In the "learning phase" the patients are shown words on the screen. Afterwards, many different words roll by, like on a conveyor belt. The patient's task is to recognize those words that he was shown in the learning phase. This training is suitable for patients 11 years of age and older.

**Plan-A-Day (PLAN), Model 64019**

This training is recommended for adult patients with difficulty in executive functions, especially planning. The task consists of planning a series of actions in the optimum sequence.

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| Multi-Function Timer/Counter | 15 | 54035A |
| Patch Cord Black - 36″ | 16 | 58084 |
| Patch Cord Red - 36″ | 16 | 58084RED |
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| Switch Mat 30″ x 32″ | 10 | 63518 |
| The Economy Clock/Counter | 16 | 54060 |
| Visual Choice Reaction Time | 10 | 63035A |

| Perception | Page | Model # |
|---|---|---|
| Color Blindness Test | 17 | 14017 |
| Deluxe Portable Audiometer | 17 | 15014DLX |
| Flicker Fusion System | 19 | 12021 |
| Head-Chin Rest | 18 | 14302 |
| Kinesthesiometer | 22 | 16014 |
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There is a $50 minimum order. Open accounts can be extended to most recognized educational institutions, hospitals and government agencies. Net amount due 30 days from the date of shipment. Enclose payment with the order; charge with VISA, MasterCard, American Express; or pay COD. We must have a hard copy of your order by 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 transfer 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 equipment for use outside the USA, please specify the country of ultimate destination, as well as the power requirements (110V/60Hz or 220V/50Hz). Model numbers for 220V/50Hz will have a "*C" suffix.

QUOTATIONS
Quotations are supplied on an as-requested basis. Written quotations will include the price of goods, plus estimated shipping and handling if requested. Quotations are good for 30 days; following that time, prices are subject to change. In such a case, please ask us to requote your order.

EXCHANGES and REFUNDS
Unaccepted merchandise may be returned for credit only if we have been consulted and have issued prior authorization. The merchandise should be packed well, insured for the full value and returned along with a cover letter explaining the reason for return. 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. Unit must be returned in saleable condition, and credit is subject to inspection of the merchandise. Customer may be assessed a restocking fee of up to 20%.

RETURNS
Equipment may not be returned without first receiving a Return Goods Authorization Number (RGA).

When returning equipment 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. Please also state the name of the Lafayette Instrument representative authorizing the return. 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.

WARRANTY
Lafayette Instrument guarantees its equipment against all defects in materials and workmanship to the ORIGINAL PURCHASER for a period of one (1) year from the date of shipment, unless otherwise stated. During this period, Lafayette Instrument will repair or replace, at its option, any equipment found to be defective in materials or workmanship. If a problem arises, please contact our office for prior authorization before returning the item. This warranty does not extend to damaged equipment resulting from alteration, misuse, negligence or abuse, normal wear or accident. In no event shall Lafayette Instrument be liable for incidental or consequential damages. There are no implied warranties or merchantability of fitness for a particular use, or of any other nature. Warranty period for repairs or used equipment purchased from Lafayette Instrument is 90 days.

DAMAGED GOODS
Damaged equipment should not be returned to Lafayette Instrument prior to thorough inspection.

When 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. When damage is not detected at the time of delivery, contact the carrier and request an inspection within 10 days of the original delivery. Please call the Lafayette Instrument Customer Service Department for a return authorization for repair or replacement of the damaged merchandise.

As our catalogs are referred to by our customers for many months, we reserve the right to change prices without notice. Prices may vary between our ads and our catalogs. Product description, typographic, pricing and photographic errors are unintentional and subject to correction. Products are available in both 110V/60Hz or 220V/50Hz. The material presented in this publication is copyright-protected and may not be reproduced in any form, by any method, for any purpose without the prior written consent of LIC.
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