

# BOTTLE BASE PACK

2025.1



Hardware requirements	
What is needed?	
Therapeutic tasks database	
Range of motion	
Speed	
Balance	1
Movement precision	
Functional movements	1
Strength	
Divided attention	
Memory	3
Problem solving	
Specialized	3

## WHAT IS NEEDED?

Please make sure the PC where you want this module to be active have VAST.Rehab Patient Panel installed and that the following hardware requirements are met:

- Windows 10/11
- Intel Core i5 (8th gen or newer). Important: Avoid ultra-low-power versions (e.g., i5-8250U), as they may not meet performance requirements. Prefer standard or high-performance CPUs.
- Minimum: 8 GB RAM (16 GB or more recommended for optimal performance).





## RANGE OF MOTION

### ANGLES EVALUATION

Measure and gently motivate to increase individual's range of motion in predefined movement patterns.

### **CONTROL MODES**













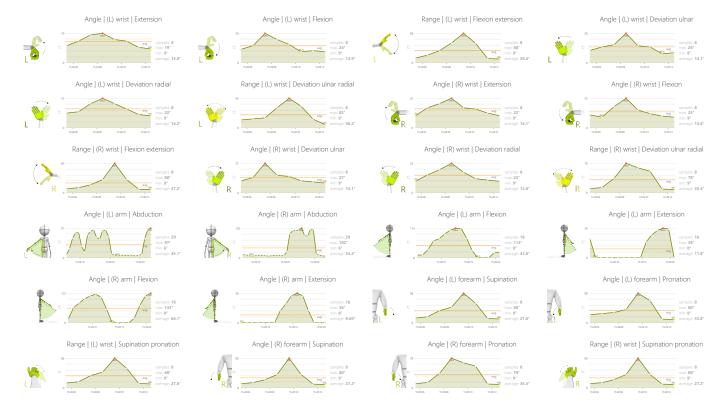








### **RESULTS**



### **ADJUSTMENTS**

• Time to complete action

### **OBJECTIVES**

• Range of motion examination

### INSTRUCTION FOR PATIENT

Try to achieve best result









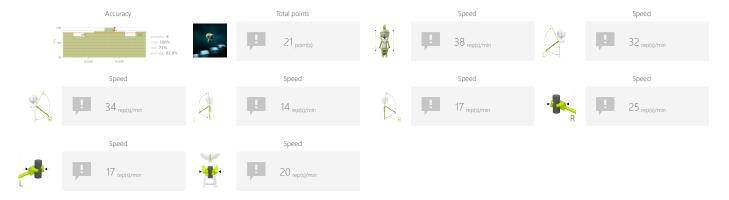
# SPEED STAIRS

Measure number of repetitions of specific movement pattern an individual is able to perform within predefined time interval.

### **CONTROL MODES**



### **RESULTS**



### **ADJUSTMENTS**

- Task duration
- Range
- Max time per floor
- Number of stairs
- Pause length

### **OBJECTIVES**

• Dynamics of planned movements

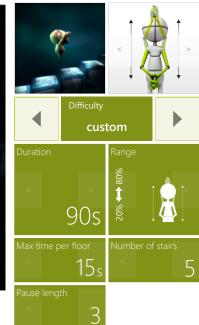
### **INSTRUCTION FOR PATIENT**

Climb the stairs before they disappear.







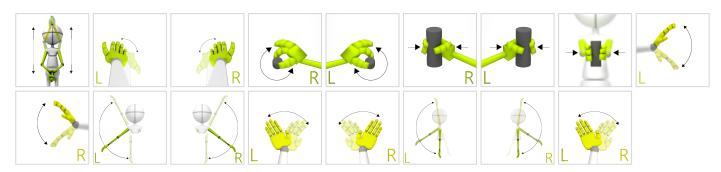




# SPEED TEST

Measure number of repetitions of specific movement pattern an individual is able to perform within predefined time interval.

### **CONTROL MODES**



### **RESULTS**



### **ADJUSTMENTS**

- Time to complete action
- Range

### **OBJECTIVES**

- Speed of movement
- Repetitive movements

### INSTRUCTION FOR PATIENT

Perform the specified movement pattern as many times as possible.



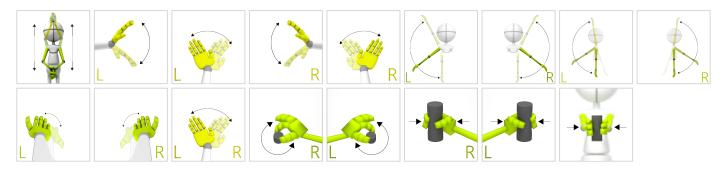


# MOVEMENT PRECISION

GRAPH

Measure and train individual's skills to perform specific movement patterns with predefined speed and range.

### **CONTROL MODES**



### **RESULTS**



### **ADJUSTMENTS**

- Graph shape (sinus or square, amplitude, border, etc.)
- Task duration
- Range

### **OBJECTIVES**

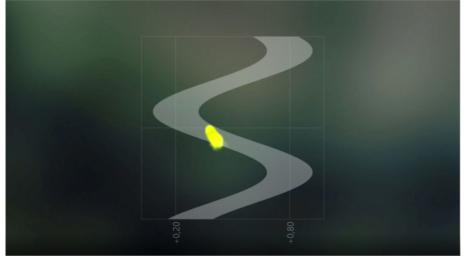
- Movement precision
- Activity in a given rhythm
- Repetitive movements

### INSTRUCTION FOR PATIENT

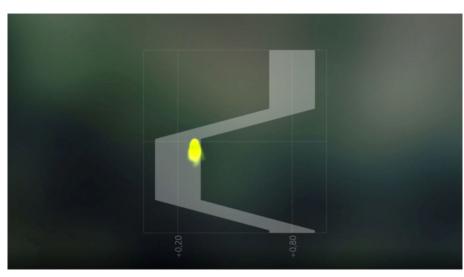
Try to stay within the borders.



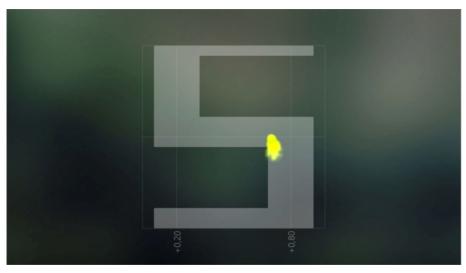


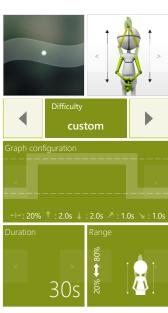












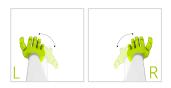




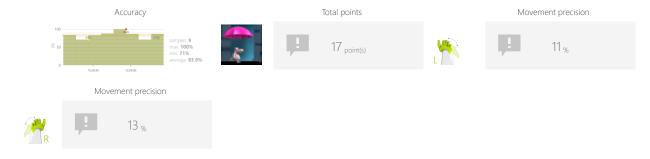
# MOVEMENT PRECISION UMBRELLA

Measure and train individual's skills to perform specific movement patterns with predefined speed and range.

### **CONTROL MODES**



### **RESULTS**



### **ADJUSTMENTS**

- Task duration
- Path
- Range
- Umbrella size

### **OBJECTIVES**

- Movement precision
- Visual motor coordination

### INSTRUCTION FOR PATIENT

Don't let the hippo get wet - keep the umbrella above him!





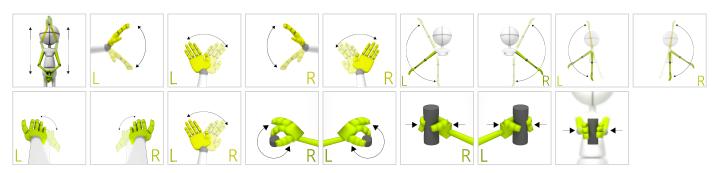




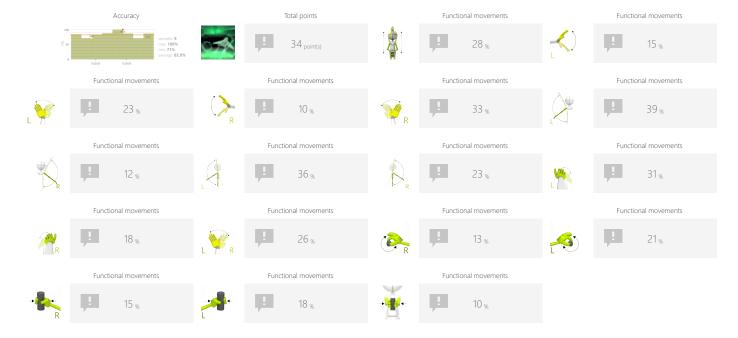
### **AIRPLANE**

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

### **CONTROL MODES**



### **RESULTS**



### **ADJUSTMENTS**

- Speed
- Task duration
- Range

#### **OBJECTIVES**

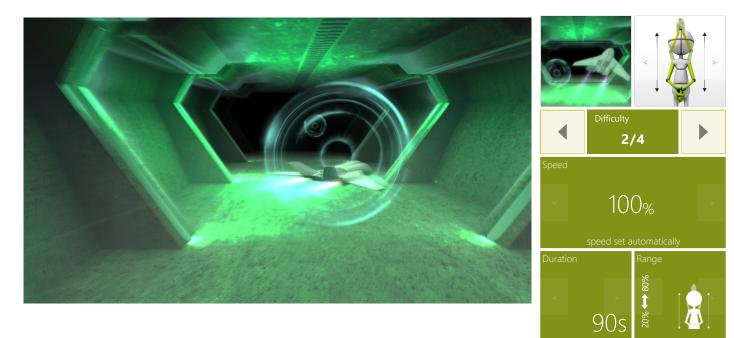
- Focusing
- Perceptivity
- Movement precision
- Predicting the trajectory of objects in 3D space

### INSTRUCTION FOR PATIENT

Make the airplane fly through the circles. The closer to the center it flies the more points you get.





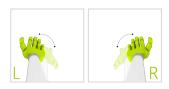




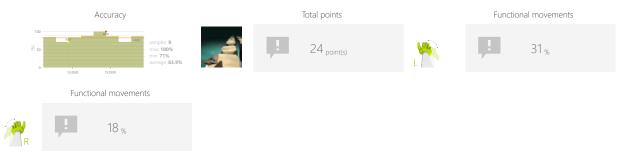
### **STONES**

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

### **CONTROL MODES**



### **RESULTS**



### **ADJUSTMENTS**

- Speed
- Task duration
- Range

### **OBJECTIVES**

- Perceptivity
- Dynamics of planned movements
- Reaction to the positive visual stimuli
- Response to negative visual stimuli

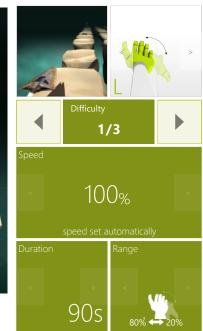
### INSTRUCTION FOR PATIENT

Make the the spaceship collect the colorful creatures and avoid the rocks.







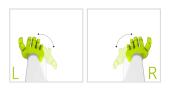




### **AMBULANCE**

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

### **CONTROL MODES**



### **RESULTS**



### **ADJUSTMENTS**

- Speed
- Task duration
- Range
- Distance between cars

### **OBJECTIVES**

- Dynamics of planned movements
- Focusing
- Speed of decision making
- Visual motor coordination

### INSTRUCTION FOR PATIENT

Go as fast as you can and avoid hitting other cars.











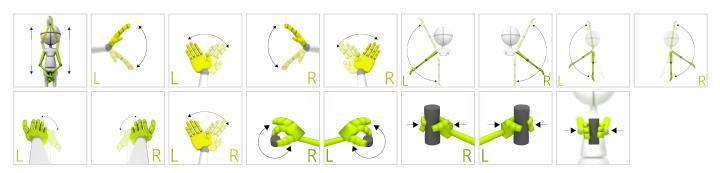




### **ARCANOID**

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

### **CONTROL MODES**



### **RESULTS**



### **ADJUSTMENTS**

- Task duration
- Range
- Reticle size
- Speed of objects

#### **OBJECTIVES**

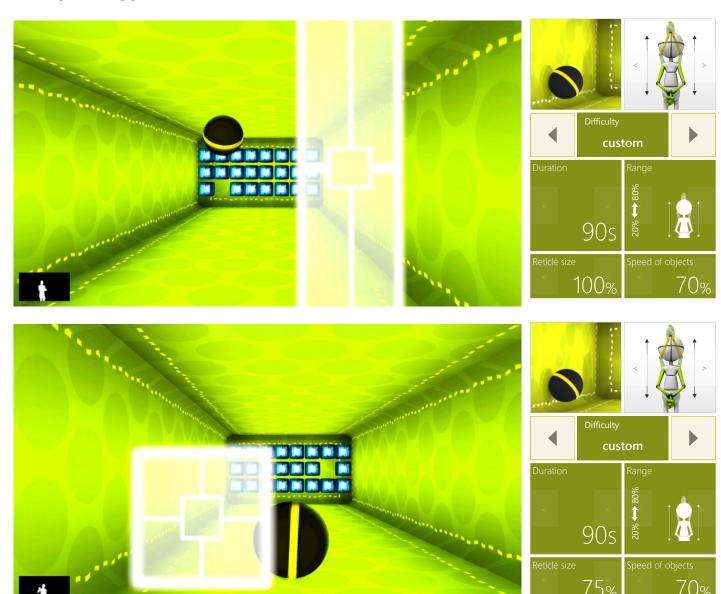
- Dynamics of planned movements
- Predicting the trajectory of objects in 3D space
- Visual motor coordination

### INSTRUCTION FOR PATIENT

Destroy as many boxes as you can.









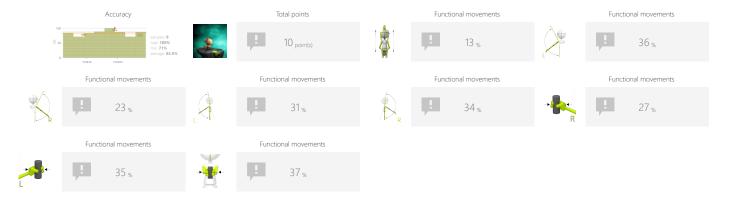
### **ROCKET JUMPING**

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

### **CONTROL MODES**



### **RESULTS**



### **ADJUSTMENTS**

- Task duration
- Range
- Time between objects
- Bomb format
- Speed of objects

### **OBJECTIVES**

- Spontaneous movements
- Dynamic responses to emerging moving targets
- Predicting the trajectory of objects

### INSTRUCTION FOR PATIENT

Help the creature jump over incoming rockets and avoid being hit.









### **MOTOCROSS**

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

### **CONTROL MODES**













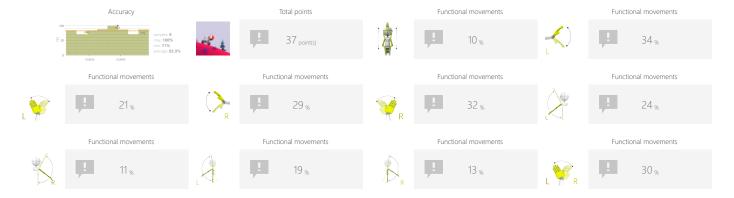








### **RESULTS**



### **ADJUSTMENTS**

- Task duration
- Range
- Route shape

### **OBJECTIVES**

- Dynamics of planned movements
- Planning and Strategy

### INSTRUCTION FOR PATIENT

Accelerate and brake to cover the entire route as quickly as possible without tipping.







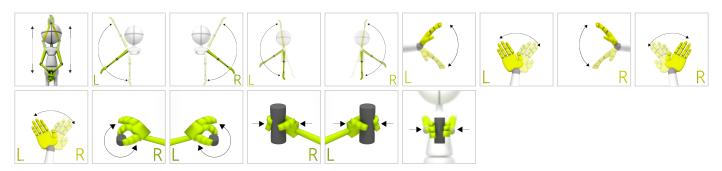




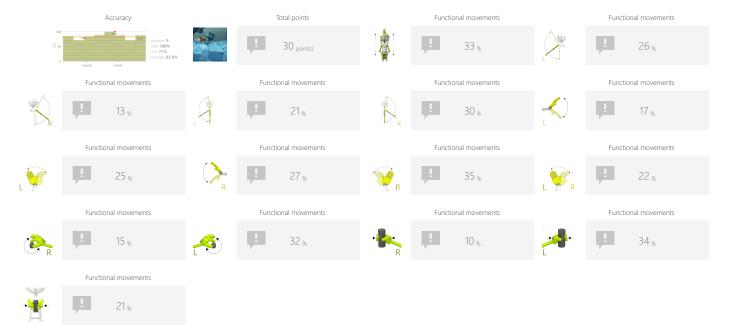
### **GEOMETRY FLIER**

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

### **CONTROL MODES**



### **RESULTS**



### **ADJUSTMENTS**

- Speed
- Task duration
- Range

#### **OBJECTIVES**

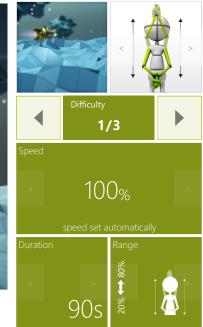
- Dynamics of planned movements
- Activity in a given rhythm
- Visual motor coordination

### **INSTRUCTION FOR PATIENT**

Control the vehicle to avoid the obstacles.





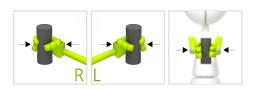




### DANCEMAN

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

### **CONTROL MODES**



### **RESULTS**



### **ADJUSTMENTS**

- Task duration
- Range
- Advanced scoring
- Song index
- Spawn rate level

### **OBJECTIVES**

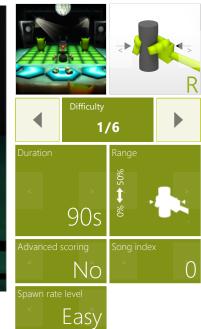
- Activity in a given rhythm
- Spontaneous movements
- Visual motor coordination

### INSTRUCTION FOR PATIENT

Hit the green characters when they come close.





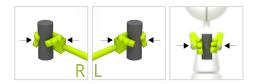




# STRENGTH STRENGTH TEST

Measure and gently motivate to increase individual's force while performing predefined movement patterns.

### **CONTROL MODES**



### **RESULTS**



### **ADJUSTMENTS**

• Time to complete action

### **OBJECTIVES**

- Strength examination
- Muscle strengthening

### **INSTRUCTION FOR PATIENT**

Try to achieve best result





# DIVIDED ATTENTION SORTER

Measure and train individual's skills to successfully execute more than one action at a time, while paying attention to two or more channels of information.

### **CONTROL MODES**



### **RESULTS**



### **ADJUSTMENTS**

- Task duration
- Range
- Number of objects
- Gap size
- Speed of objects

### **OBJECTIVES**

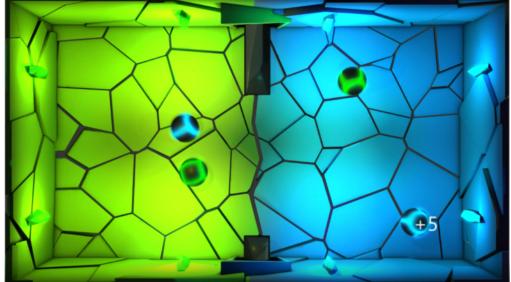
- Predicting the trajectory of objects
- Focusing
- Perceptivity
- Movement precision
- Exercise with or without support from healthy limb

### INSTRUCTION FOR PATIENT

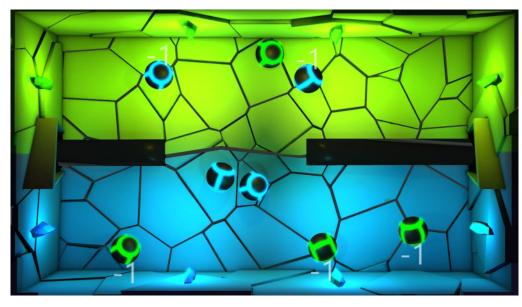
Pass or block the balls so that the blue balls are on the blue side and the green balls are on the green side of the screen.





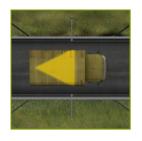








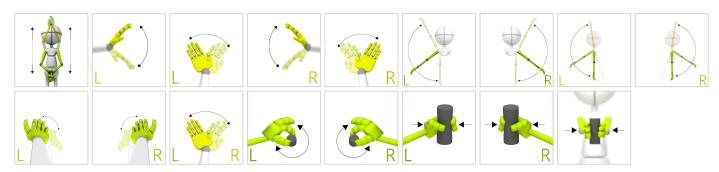




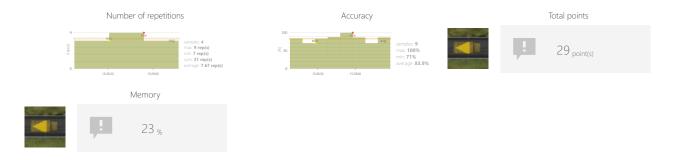
### MEMORY TRUCKS

Measure and train individual's skills to memorize information.

### **CONTROL MODES**



### **RESULTS**



### **ADJUSTMENTS**

- Task duration
- Range
- Variations

### **OBJECTIVES**

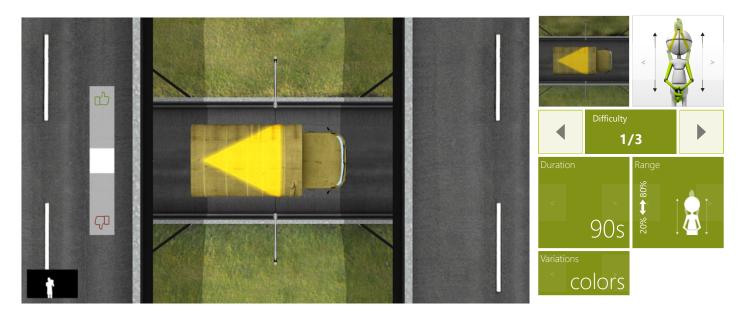
- Logical tasks
- Focusing
- Perceptivity

### INSTRUCTION FOR PATIENT

Remember the shape and/or its color on the roof of the car you see. Decide with thumbs up or down whether the next car has the same shape and/or color on the roof as the previous one.









# PROBLEM SOLVING

### **CLONES**

Measure and train individual's skills to reach a solution of specific problems. Problem solving may include mathematical or systematic operations and can be a gauge of an individual's critical thinking skills.

### **CONTROL MODES**



### **RESULTS**



### **ADJUSTMENTS**

- Task duration
- Time to complete action
- Range
- Number of pairs

### **OBJECTIVES**

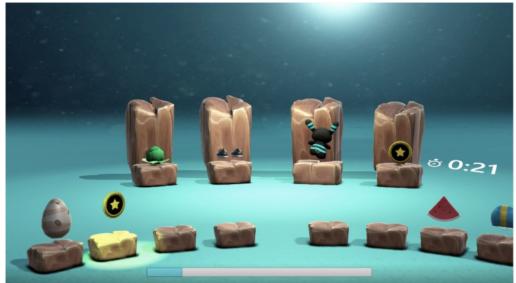
- Perceptivity
- Visual motor coordination
- Logical tasks

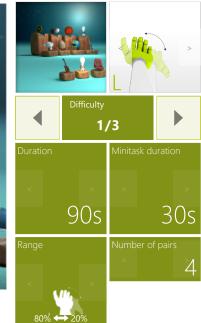
### INSTRUCTION FOR PATIENT

Select the item which has a pair on the screen.











# SPECIALIZED BLOOD PRESSURE

Specialized tasks and evaluations that collect data from multiple categories or do have a unique objectives.

### **CONTROL MODES**



### **OBJECTIVES**

• Monitor external parameters

### **INSTRUCTION FOR PATIENT**

Measure yourself your blood pressure and type it in the result.





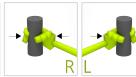
# SPECIALIZED

**GONOGO TEST** 

Specialized tasks and evaluations that collect data from multiple categories or do have a unique objectives.

### **CONTROL MODES**







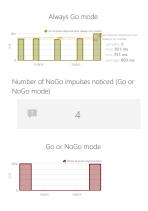


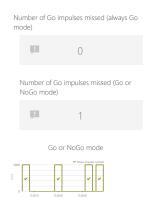


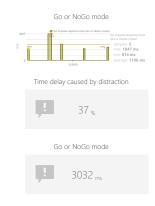




### **RESULTS**









### **ADJUSTMENTS**

- Range
- Required proper repetitions
- Triggering mechanism (rule-based, visual, or auditory)

### **OBJECTIVES**

- Spontaneous movements
- Speed of movement
- Response to negative visual stimuli
- Reaction to the positive visual stimuli

### INSTRUCTION FOR PATIENT

Hit the button when positive trigger appears.





