TSENSOR

2023

TSENSOR

Comprehensive system for recording and measuring human performance variables

TSENSOR is a comprehensive system for the recording and measurement of human performance variables. It can be used in sports evaluation and training, in physical rehabilitation, in academic training, in the teaching and learning process, as well as having many other applications.

The TSENSOR can function on its own, although it can also be integrated into other systems such as the TROOM, TPOOL, TSENSOR, TWALL, and TFLOOR, thus forming a single, complete, comprehensive and interactive system.

The system includes discs -also called SENSOR- that incorporate multiple sensors for measuring acceleration and rotation (kinematics), magnetic orientation, and proximity detection.

The SENSOR carry light indicators that switch colors and intensity according to the operation mode, adjusting to different environments; likewise, they incorporate an acoustic indicator that aids their operation and increases the interaction options with the user.

Waterproof

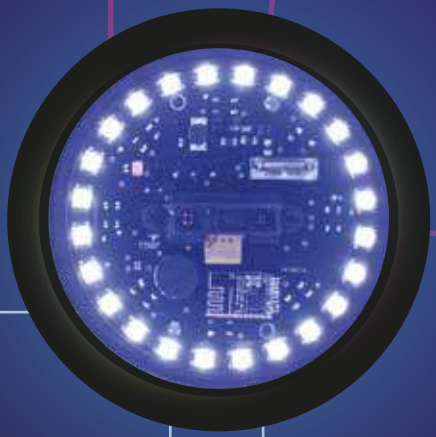
The SENSORS are sealed, so they can be used in sports spaces, as well as in hydrotherapeutic tanks.

Wireless System

It includes rechargeable batteries and implements the best wireless communication technologies. It's ideal for fieldwork!

Objective and Quantifiable Data

Extracted from its multiple sensors, which are stored in a database, allowing their export for external analysis.



Software Update

It allows you to update your software and add new features and functions.

TSENSOR-App

It allows you to obtain, store, and view the information recorded by the SENSOR, as well as executing treatment protocols, evaluation and training sequences, and routines/ applications defined by the user.

Scalable System

It is a scalable modular system that allows you to set up the number of SENSORS required for almost any application you wish for.

TSENSOR's interactivity allows for the creation of a huge variety of highly motivated and interactive activities, together with other systems of the TTMT family. This makes exercises with wide dynamism and interactivity of actions and reactions possible.

TSENSOR is a valuable tool for analysis and research; in the same way, it is a high value complement in the educational field, as well as in the oriented artistic and recreational fields.

TSENSOR has a huge variety of uses and applications in different areas, in addition to those mentioned above.

For instance, in the commercial and marketing areas for the promotion of products, brands, and services, and in the educational area where it supports the teaching and learning process, allowing individual or group interaction through an active and motivating participation.

TSENSOR has applications for:

Measurement of Reaction Times.

- Auditory
- Visual
- Mixed

Rehabilitation Exercises

Balance Assessment and Training

- Test with closed eyes
- Test with eyes open
- Balance exercises

Sequence Programming.

- Random
- Protocol
- Those defined by the user
- Determined by the user given the number of sensors in sequences.

Skills and Coordination Evaluation and Training

- By color
- By sense of rotation
- By balance
- By speed and distance
- By sequence hit count

Educational Support

- Multiple choice answer selection
- Time-controlled responses
- Response shift control
- Count of hits and errors with database record

Playing Sounds and Notes

- Musical instruments
- Phonemes
- Onomatopoeia
- Colors

Configurable Interaction with TROOM Multisensory Spaces and TPOOL Hydrotherapeutic Spaces.

- Projection control
- Lighting control
- Sound control

Measurement of Route Times

- Speed among sensor units
- Route acceleration

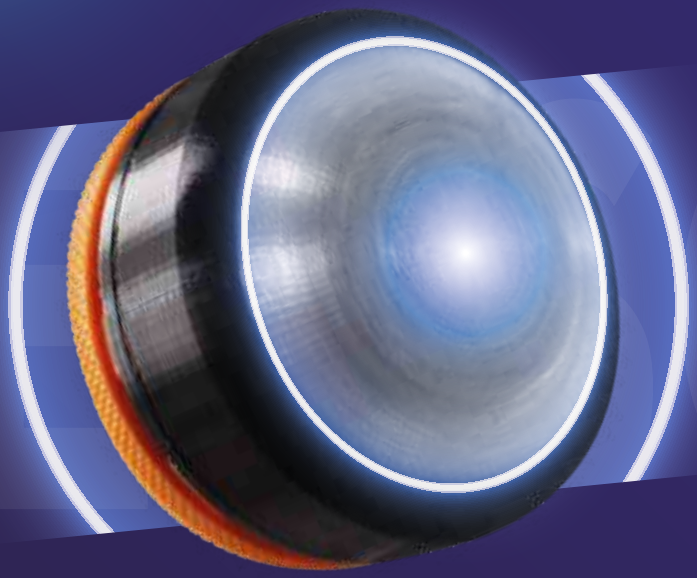
TSENSOR DETAILS	B A S I C	EXPERT	PRO
Sensors			
Full Color Indicator Lights	16	24	24
Degrees of Freedom DOF	6	11	14
Water Protection	No	Splashes	Submersible
Internal Battery	2500mAh	5000mAh	6000mAh
Digital Accelerometer	•	•	•
Acoustic Indicator	•	•	•
Presence Sensor	•	•	•
Impact Sensor	•	•	•
Wireless Communication	--	•	•
Internal Memory	--	•	•
Digital Gyroscope	--	•	•
Digital Magnetometer	--	•	•
Light Sensor	--	•	•
Charge Level Indicators	--	•	•
Systems Compatibility TROOM	--	•	•
Systems Compatibility TPOOL	--	•	•
Systems Compatibility TWALL-TFLOOR	--	•	•
Upgradeable Firmware	--	--	•
Vibration Indicator	--	--	•
Fast Charge	--	--	•

O Optional • Included – Not Applicable

O Optional • Included – Not Applicable

TSENSOR DETAILS	B A S I C	EXPERT	PRO
Software			
TSENSOR Android App	•	•	•
Data Export	•	•	•
Sequences Programming: Random, Sequential, Defined by User and Saved	•	•	•
Measurement of Reaction Times and Graphs in Real-Time	•	•	•
Selection of Lighting, Color, Brightness, Speed, Direction, and Predefined Effects	•	•	•
Presence Activation	•	•	•
Impact Activation	•	•	•
Turn Activation, Selection of Turn Direction with Indicator Lights, Turn Speed Range Selection	•	•	•
Expert Sequence Profiles	--	•	•
Sequence Protocol Update	--	--	•
Accessories			
Rigid Transport Case	O	O	O
Backpack	O	O	•
Wireless Speaker for Voice and Sound Instructions	O	O	O
Additional Battery Module	--	O	O
Range Extender Module	O	O	O
Magnetic Sensor Base	O	O	•
Suction Sensor Base	O	O	•
Tube Sensor Base	O	O	•
Tripod	O	O	O
Chest Harness	O	O	O
Head Harness	O	O	O

TSENSOR
GADGETS



TSENSOR

2023

troom_clinical troom

troomclinical.com **ttmt.com.mx**

contactus@troomclinical.com

Version 1