

YINGCHI

Psychiatry | Neurology | Rehabilitation



MDR | US FDA | Safe | Efficient | Versatile | Trustworthy

Transcranial Magnetic Stimulator
M Series Solutions

TMS: One of A Major Brain Science Technologies of the 21st Century

Transcranial Magnetic Stimulation (TMS) uses time-varying pulsed magnetic fields to penetrate the skull, inducing an electric field in brain neurons.

This generates an induced current that acts on the nervous system, triggering a series of physiological and biochemical reactions.

These reactions influence brain metabolism and neuronal excitability, achieving therapeutic effects for mental and neurological disorders.

FDA Approved TMS Applications

- 2008: FDA approved TMS for the treatment of TRD.
- 2013: FDA approved TMS for the acute treatment of migraine with aura.
- 2018: FDA approved Theta Burst Stimulation (TBS) for TRD.
- 2020: FDA approved the double-cone coil to treat obsessive-compulsive disorder (OCD).
- 2022: FDA approved SAINT protocol for TRD.
- 2024: FDA cleared TMS as an adjunct treatment for MDD in adolescents aged 15-21.

International TMS Guidelines

- Clinical Practice Guideline for the Treatment of Depression Across Three Age Cohorts American Psychological Association Guideline Development Panel for the Treatment of Depressive Disorders.
- Consensus Recommendations for the Clinical Application of Repetitive Transcranial Magnetic Stimulation (rTMS) in the Treatment of Depression.
- Evidence-based Guidelines on the Therapeutic Use of Repetitive Transcranial Magnetic Stimulation (rTMS): An update (2014–2018).

Clinical Indications and Applications

Psychiatry

Major Depressive Disorder, Obsessive-Compulsive Disorder, Post-Traumatic Stress Disorder, Substance Abuse, Schizophrenia, etc.

Neurology and Rehabilitation

Function rehabilitation after stroke, Parkinson's disease, pain management, migraines, Alzheimer's disease, Multiple Sclerosis, Tinnitus, Epilepsy, etc.

Pediatric Neurodevelopment

Attention-Deficit/Hyperactivity Disorder, Autism Spectrum Disorder, Tourette's Syndrome, adolescent depression, etc.

Repetitive Peripheral Magnetic Stimulation(rPMS)

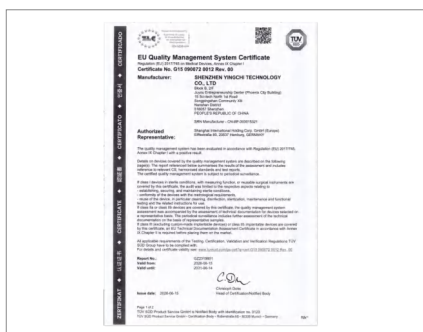
Peripheral nerve, spinal cord, nerve root, and muscle stimulation, chronic pain, spasticity, movement disorders, Neuropathies (facial, trigeminal, and chronic pelvic pain), Urology, Gynecology, and Proctology.

Note: Certain clinical applications listed above may be classified as investigational or off-label depending on local regulatory approvals and regional guidelines.

YINGCHI TMS: Global Approvals, Trusted Worldwide

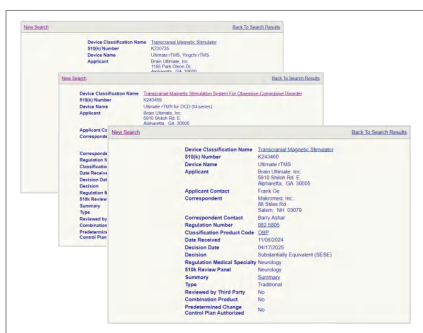
Recognized Regulatory Approvals

YINGCHI is committed to the highest standards of safety, quality, and performance. YINGCHI TMS M Series has been certified in over 50 countries and regions, including NMPA, US FDA, MDR, TGA, KFDA, and SMDR. These certifications reflect our dedication to delivering medical devices that healthcare professionals can trust and patients can rely on.



MDR Certified

Engineered to the highest international benchmarks, the YINGCHI TMS M Series is fully EU MDR certified. By meeting the European Union's strictest, most up-to-date medical device safety and clinical performance standards, we ensure absolute compliance so you can focus entirely on delivering exceptional patient care.



FDA Cleared

Validated for clinical use in the United States

- 19-minute or 37min rTMS for Major Depressive Disorder (MDD).
- 3-minute iTBS (Intermittent Theta Burst Stimulation), an accelerated protocol for MDD.

About YINGCHI

YINGCHI is a core member of Shenzhen Hanix United, Ltd., a global group bridging international research and clinical excellence. Together with Hanix's subsidiaries—the century-old Italian neurology leader EB Neuro S.p.A. and Brain Ultimate Inc. (USA)—we maintain a robust infrastructure across Asia, Europe, and the Americas. This global synergy allows us to deliver elite-tier TMS technology backed by cross-continental support and manufacturing expertise.



YINGCHI TMS M Ultimate Configurations



Technical Specifications

Model	M-10	M-30	M-50	M-100
Output Pulse Frequency (Hz)	0-10Hz (Adjustable)	0-30Hz (Adjustable)	0-50Hz (Adjustable)	0-100Hz (Adjustable)
Stimulation Modes	spTMS, rTMS, ppTMS		spTMS, rTMS, ppTMS	
Cooling System	Passive cooled, air cooled, and liquid cooled			
Coil Shapes	Compatible with over 30 types of stimulation coils, customizable coils			
Software	Patient/protocol information management, report generation, etc			

Popular Configuration Options

Option
1

TMS with passive coil



Option
2

TMS with air cooled coil



Option
3

TMS with liquid cooled coil



Portable Setup for Diagnostics

- Simplest solution and suitable for assessing diagnosis and monitoring diseases of the central and peripheral nervous system.
- Stimulator supports standalone operation without PC software enable convenient diagnostic use and easy portability.
- Input/output interface for combination with external device like EMG/EEG.
- Stimulator: M-10 Ultimate, M-30 Ultimate
- Coil: OZ120C, OZ120A, BZ90A, MZ90A, MZ120A

Entry-level Setup for rTMS Therapy

- Ideal for practitioners new to TMS, budget-limited users with fewer daily patients, and users who prefer air-cooled systems.
- This air-cooled configuration features simple maintenance. Its cooling performance reliably supports treatment sessions for FDA approved standard depression protocols, as well as the advanced 3-minute theta burst stimulation.
- Stimulator: M-30 Ultimate, M-50 Ultimate, M-100 Ultimate
- Coil options: BF90A, OF120A

Premium Setup for rTMS Therapy and Research

- A highly efficient cooling system to support unlimited patient throughput, delivers full compatibility with high-intensity Stanford Accelerated Therapy protocols.
- This configuration is compatible with over 30 coil options, offering greater versatility for clinical practice and research.
- The device operates with ultra-low noise, while the liquid-cooled coil features a lighter and more portable design.
- Stimulator: M-30 Ultimate, M-50 Ultimate, M-100 Ultimate
- Coil options: BY90A, BY90B, MY90A, OY120A and more

All-in-one Stimulation Generator



- YINGCHI TMS stimulation generator can run independently without PC.
- Five hot keys to link the most used protocols, parameter adjustment buttons, real-time working status monitoring.
- High-Resolution LCD display with clear, easy-to-read embedded operation system.
- High-performance stimulation generator supports theta-burst stimulation with no intensity decay.
- Trigger-in and trigger-out interface allows seamless integration with EEG, EMG, fNIRS, and other devices from multiple brands and models.
- Use a dongle to regularly back up patient data and treatment records to prevent data loss.

Revolutionary Liquid Cooling System



Operation Status Real-time Monitoring

YINGCHI TMS liquid cooling unit delivers reliable coil cooling and ensures safe, optimal operation by continuously monitoring liquid temperature, volume, and circulation status. The cooling status is shown in real time on an LED screen.

Highly Efficient Liquid Cooling System

YINGCHI's revolutionary liquid cooling system features powerful cooling performance to eliminate the overheating constraints.

1Hz > 24 hours

Continuous working with 1Hz rTMS @75%MSO before 41°C

cTBS > 7200 pulses

Continuous working @75%MSO before 41°C

10Hz 5*18000 pulses

Continuous working with FDA approved Stanford neuromodulation therapy (accelerated iTBS)@75%MSO before 41°C

10Hz > 24 hours

Continuous working with FDA approved protocol for MDD @75%MSO before 41°C

iTBS > 90000 pulses

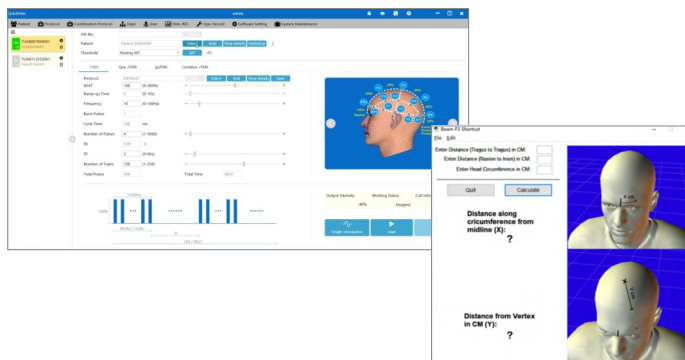
Continuous working with FDA approved protocol for MDD @75%MSO before 41°C

Note: cooling effect with figure 8 coil (BY90A) and M-100 cooling system at 75% Maximum stimulator output (MSO) tested in ambient temperature 25°C (77°F)

Versatile Quickstim Software

YINGCHI TMS stimulator can be controlled via built-in software, as well as the external windows-based computer with installed Quickstim software.

A fully-featured data management system improves TMS management efficiency and makes operating TMS easier.

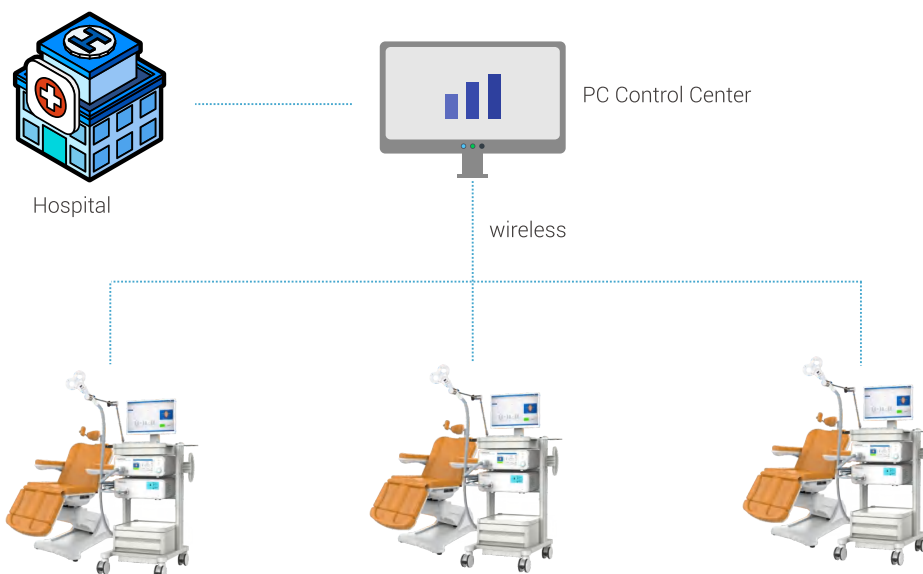


Powerful Data Management System

- Patient profile and protocols creation, storage, and retrieval.
- Built-in evidence-based protocols (FDA-cleared, IFCN guidelines, and more).
- Auto-generate protocols with progressive intensity ensuring safe and smooth transition from a tolerable intensity to the target intensity.
- Multi-target management for patients with multiple concurrent symptoms, combination protocols can be easily created.
- Anatomical brain map with integrated Beam F3 tool enhances targeting accuracy and workflow efficiency.
- Pulse-train start alert tones improve patient comfort throughout the session.
- Real-time treatment visualization and treatment report export.

Centralized Multi-Device Management

Manage multiple systems from a single platform. Patient profiles and treatment records are synchronized across devices, ensuring seamless access to treatment history and continuity of care.



Coil Options——Premier Coils



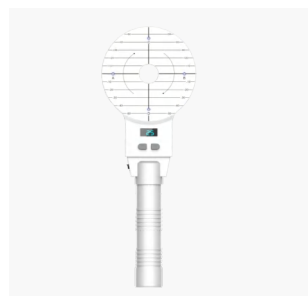
Double Cone Coil

- Ergonomic curved design better conforms to the patient's head.
- Deeper and focused stimulation elicits MEP at lower intensities, minimizing scalp discomfort.
- Deeper penetration makes it easier to trigger lower-limb MEPs.
- Ideal for MDD, OCD, and stroke rehabilitation.



Flat Figure 8 Coil

- Precise targeting, suitable for brain mapping.
- Conventional figure eight coil for MDD treatment.

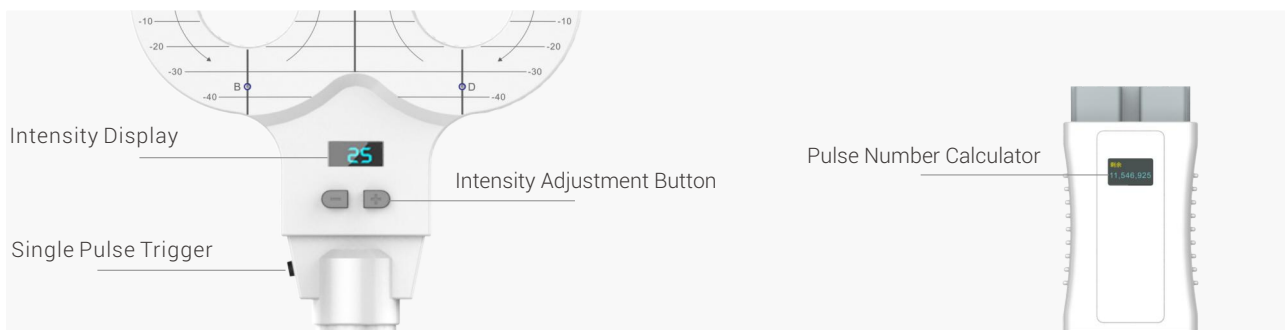


Circular Coil

- Passive circular coil: EMG diagnosis dedicated, a special design that effectively reduces artifacts, ensuring clear, accurate evoked potential waveforms for precise diagnostic analysis.
- Liquid cooled circular coil delivers large-area, powerful magnetic stimulation for repetitive peripheral magnetic stimulation continuously.

Intuitive Coil Design

- Intensity adjustment buttons allows for hand-in intensity adjustment. Intensity display screen provides a quick check of the current intensity.
- Pulse number calculator for indicating coil usage status (coil will not lock after pulses depletion).
- Lightest coils on the market for operator comfort.
- Coil change within as quick as 10 seconds.



Dedicated Coil for Magnetic Pelvic Floor Stimulation

- Evidence-based protocols for conditions such as urinary incontinence, overactive bladder, pelvic floor dysfunction, chronic pelvic pain, and postpartum recovery.
- Integrated treatment chair lets patients receive therapy fully clothed - just sit and start stimulation.
- Dual-coil compatibility for pelvic, sacral, and brain stimulation - enabling top-down and bottom-up therapy for enhanced rehabilitation.



YINGCHI TMS Coil Overview

YINGCHI offers over 30 coil shapes, covering applications from clinical use to advanced research, with the option to customize coils to individual needs. YINGCHI is the only brand to provide natural, air, and liquid cooling solutions, accommodating different budgets, patient volumes, and requirements. With fully user-oriented design, YINGCHI ensures maximum flexibility and performance for every scenario.

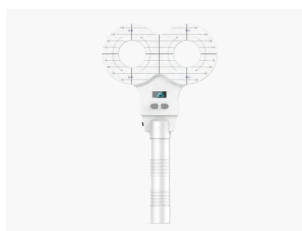


Figure 8 Coil



Circular Coil



Double Cone Coil



Single Cone Coil



Figure 8 Angulated Coil



Air cooled Figure 8 Coil



Air cooled Circular Coil



EMG Dedicated Coil



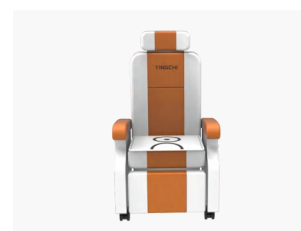
Double-blind Sham Coil



TMS-EEG Dedicated Coil



Circular Curved Animal Coil



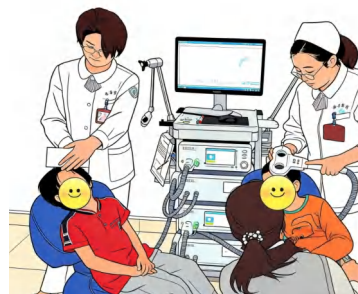
Pelvic Floor Coil

Paired Pulse TMS

Paired Pulse TMS in Various Scenarios

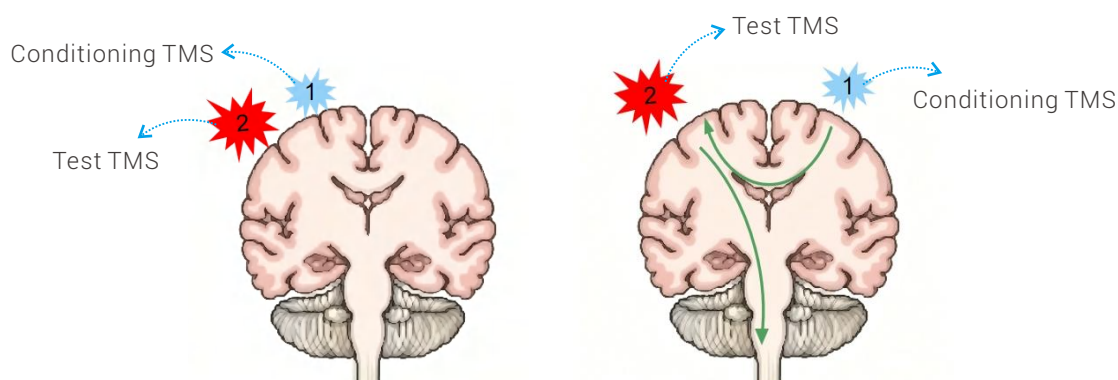
Entry-level Setup for rTMS Therapy

One system integrates two machines working independently. Parameters can be set separately through one PC station. Two patients can be treated at the same time without mutual-interference. This improves clinical efficiency and optimizes the use of space.



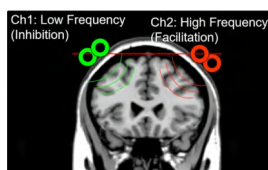
Paired Pulse TMS for Diagnosis, Assessment and Research

Two coils can have their stimulation intensities set independently, enabling paired-pulse stimulation. The interval between the conditioning stimulus (CS) and the test stimulus (TS) can be as short as 0.1 ms. This setup can be used for interhemispheric inhibition/facilitation studies, as well as for assessing connectivity between hemispheres or neural circuits.

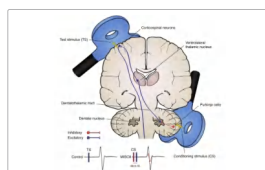


Two-Target Stimulation

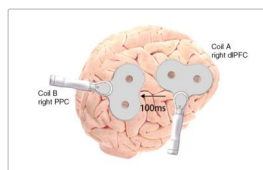
Different parameters can be set in two coils, which allows two-target stimulation, such as different brain areas. Also support different stimulation paradigms in paired associative stimulation.



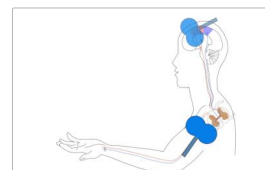
Dual-target Stimulation



Cerebellum-Motor Cortex Paired Stimulation



Cortex-Cortex Paired Stimulation



Central-peripheral Stimulation

YINGCHI Solutions

Pack
1**Paired Pulse TMS
with One coil**

- Integrates two stimulation generators and one coil into a single system.
- The pulse interval can be set at 0.1ms, used in the diagnosis, assessment and the prognosis of diseases like Parkinson Disease, Alzheimer Disease, Stroke, Dystonia, ALS, Spinal Cord Injury, etc., and can be used in research. Common indicators are
 - Short-interval intracortical inhibition (SICI): interstimulus interval (ISI) of about 1-5 ms (especially 1-2 ms).
 - Intracortical facilitation (ICF): ISI of about 10-20 ms, used to evaluate excitatory circuits.

Pack
2**Paired Pulse TMS
with two coils**

- Integrates two stimulation generators and two coils into a single system, with each coil capable of operating independently and delivering different stimulation modes.
- The pulse interval can be set at 0.1ms, applied in the diagnosis, assessment, and research of the connectivity among different brain regions. Common indicators are
 - Interhemispheric Inhibition, IHI
 - Cerebellar Brain Inhibition, CBI
 - Cortical Paired associative Stimulation, cPAS
- The system also enables dual-target stimulation, as well as two patients to be treated simultaneously.

Pack
3**Paired Pulse TMS with 1 brain
stimulation coil and 1 pelvic
floor stimulation chair**

- Integrates one pelvic floor stimulation chair and one brain stimulation coil in one device.
- It can be used for pelvic floor disorders as well as central (brain) stimulation.
- This setup enhances treatment efficiency, optimizes clinical space usage, and offers a cost-effective solution.

Precise Treatment

Precise Motor Threshold Measurement

Measure patient's motor threshold by using an MEP module, clinicians can precisely tailor the treatment dosage to ensure the stimulation is powerful enough to achieve therapeutic targets while maintaining optimal patient comfort and safety.

YINGCHI MEP Module

- Wireless transmission, high signal-to-noise ratio.
- Dual-channel design suits most clinical determinants.
- High sampling rate captures precise recording in EMG wave changes.
- Unique waveform processing algorithm ensures a precise diagnosis.



Patented TMS Positioning Cap

Based on the 10–20 EEG system and the motor homunculus, this cap helps operators quickly and primarily locate targets for motor threshold detection and stimulation.



Precise Frequency

Neurological rhythms vary significantly from person to person. By calculating and targeting each patient's unique Individual Alpha Peak Frequency (iAPF), the system personalizes the stimulation frequency to match their native cortical rhythm. This tailored approach maximizes neural resonance and engagement, achieving individualized treatment for patients.

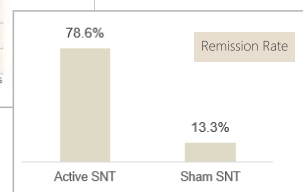
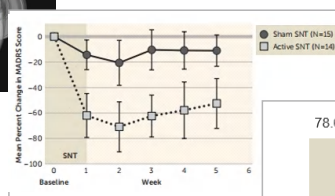
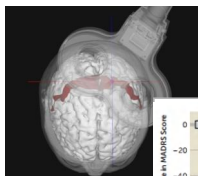
YINGCHI Dry EEG Solution

- Dry electrodes minimize impedance and noise without the need for conductive gel.
- Bluetooth Wireless Transmission
- Electrodes integrated all in a helmet
- EEG data collection can start in as little as 30 seconds, reducing the time required for traditional fixed electrodes and impedance lowering.



Precise Target

Compared with traditional targeting methods (such as the 5 cm rule or Beam F3 method), a navigation system can integrate a patient's MRI data to provide visualized, individualized targeting. By accounting for each patient's unique cortical anatomy (gyri and sulci) or functional connectivity between brain regions, it enables a true "one patient, one target" approach, improving treatment success rates.



TMS 3D Navigation YINGCHI Solution

Pack 1

- All-in-One Software – get both advanced TMS stimulation and precise navigation built into a single, unified software platform.
- The navigation software communicates directly with the TMS device.



Pack 2

- Easy for configuration upgrade;
- Compatible with all TMS equipment flexibly, ideal for users with multiple TMS units;
- The detectable area of navigation camera can be moved freely for greater operational flexibility.

Key Features

- Seamless Integration and One-Stop Neuromodulation with YINGCHI TMS. Two systems are controlled by the same software, making precise treatment under navigation guidance more efficient.
- Single-point coil calibration in less than 20 seconds, only 6 steps in the first treatment session to calibrate, head model reconstruction from standard DICOM and NIFTI formats in less than 3 minutes.
- Built-in MNI coordinates, no need to type in manually. Build in standard head model for both adults and children.
- Multiple Target Localization Methods
MNI coordinate, functional brain region highlight, anatomical localization, preset targets, automatic retrieval of historical positions
- Real-time display of the coil's position offset distance from the predetermined target point, automatic pause when the deviation surpass the preset threshold.
- Coordinate Origin Calibration adjusts the origin of the patient-specific head model in MNI standard space, making it aligns more precisely with the standard MNI template brain coordinate system.

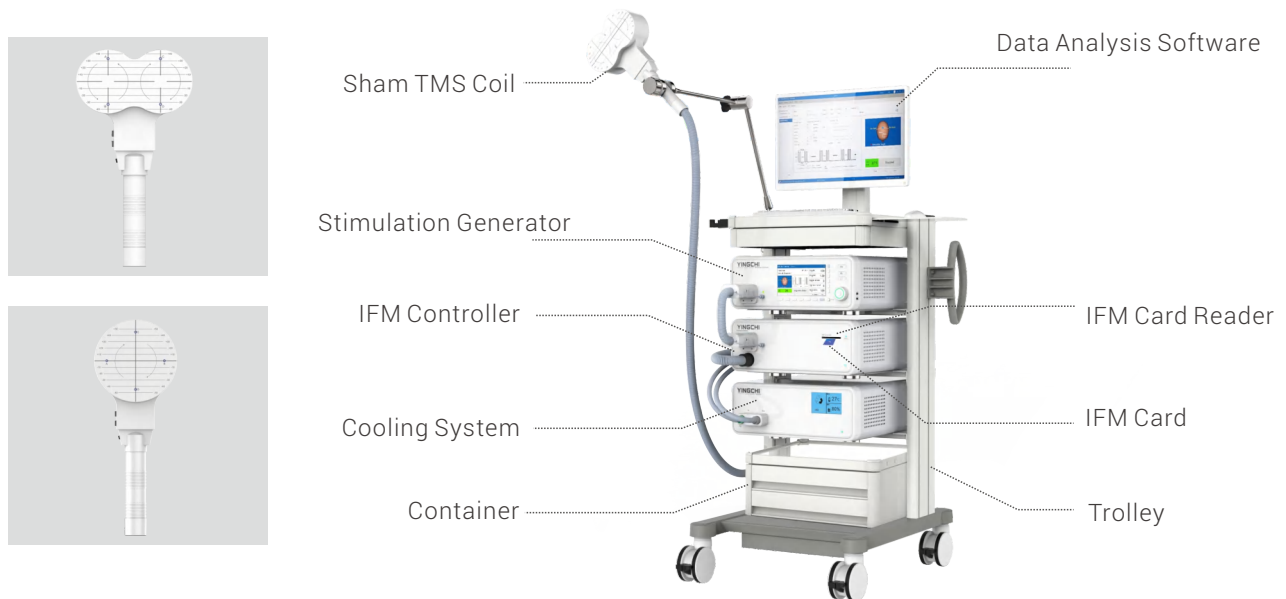
More YINGCHI TMS Research Solutions

Double-blind Sham Stimulation: Empowering All-scenario Clinical Trials

Double-blind sham TMS system is designed to ensure rigorous clinical integrity in clinical trial by effectively mimicking active stimulation without delivering therapeutic magnetic pulses.

By replicating the acoustic, sensory, and scalp interaction characteristics of real TMS, the system maintains participant blinding while enabling researchers and clinicians to conduct controlled studies with confidence.

Seamless switching between active and sham modes, combined with consistent coil positioning and user-friendly operation, supports reliable study protocols and minimizes bias, making it an essential tool for high-quality clinical trials and evidence-based practice.



Key Features

IFM Control Host & Reader/Writer

Automatically switches between active and sham modes via encoded IFM cards, with fast and accurate data recognition.

Sham Stimulation Coil, True Double-Blind

No coil changes required; replicates sound and sensation of active TMS. Ensures full blinding with safe, liquid-cooled operation and seamless mode switching.

IFM Stimulation Card

Identical real and sham cards enable randomized, blinded assignment. Compact and portable, with secure data storage to protect patient privacy.

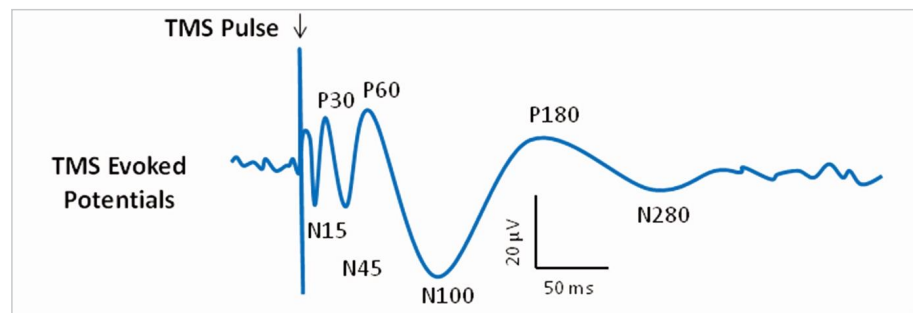
IFM Data Analysis Software

Works with the card reader to organize stimulation data. User-friendly, adaptable, and compatible with the YINGCHI TMS recording system.

TMS-EEG: Causal Probes for Exploring the Brain

Transcranial Magnetic Stimulation (TMS) can safely and non-invasively target specific brain regions, making it a powerful tool for assessing brain function. However, traditional TMS delivers stimulation with fixed parameters and lacks real-time feedback, limiting its ability to dynamically capture effects or optimize treatment for individual patients.

Concurrent TMS and EEG (TMS-EEG) overcomes this limitation by allowing simultaneous brain stimulation and signal monitoring, enabling both precise modulation and comprehensive assessment under non-invasive conditions.



- High Sampling Rate: capture precise EEG signals
- Wide Measurement Range: prevent amplifier saturation and signal clipping
- High-Frequency Bandwidth: reduce ringing artifacts
- Low Artifact Interference: TMS pulse-induced artifacts last less than 2ms

- Standardized TMS artifact removal process
- Automated batch data processing

- TMS-EEG closed-loop control software
- Ultra-fast data router: data transmission latency less than 1.5ms
- Real-time signal processor
- Real-time analysis without programming
- Real-time parameter adjusting along with brain state

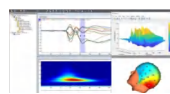
YINGCHI TMS-EEG Solutions



Magically Compatible Amplifier



TMS-EEG Dedicated TMS



Data Analysis Software



TMS Compatible Electrode Cap



Close-loop Control System



Neuronavigation System

- Charging delay enables controlling charging time to minimize electromagnetic interference with EEG data
- Dedicated TMS-EEG Coil
- Built-in TMS-EEG Detection Program
- Precise MEP Stimulation Intensity

- Active/Passive TMS-compatible electrode
- Electrode height of only 3.5mm minimizes magnetic field strength attenuation
- Reduced artifacts directly related to TMS stimulation

- Spatial Precision: accuracy of 2mm
- Individual MRI-Based Head Rebuild
- Tailor treatment to individual needs

Contact us

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