User Manual for RTMS Machine

Mode Number: JLC01



WUHAN ZJZK TECHNOLOGY CO., LTD. is a leading innovator in the research, development, manufacturing, and marketing of advanced medical phototherapy devices, delivering state-of-the-art solutions globally. Our diverse product range includes cutting-edge laser therapy devices for various applications, 308nm system for skin conditions, LED therapy solutions for both physical and aesthetic treatments, and specialized brain therapy devices, including our near-infrared light helmet and rTMS machine. All our products are meticulously designed in house and protected by global patents.























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1. Introduction

Thanks for purchasing our RTMS Machine. This device is designed to provide repetitive transcranial magnetic stimulation (rTMS) as a non-invasive tool to support therapeutic treatments. Please read this manual carefully to ensure safe and effective use of the machine.

2. Safety Information

Read the Manual: Before using the device, thoroughly review the manual.

Professional Supervision: RTMS should only be used under the supervision of a qualified healthcare professional.

Electrical Safety: Ensure the machine is connected to a properly grounded outlet and is used in a dry environment.

Medical Conditions: Consult a healthcare provider before use, especially if you have metal implants, pacemakers, or are pregnant.

Emergency Protocols: In the event of any adverse reactions, stop the session immediately and seek medical advice.

3. Magnetic Field Strength Selection

Strong Magnetic Fields (11mT-19mT):

Primarily used in clinical treatments, neuroplasticity enhancement, and advanced research. Such as treating, Major Depressive Disorder (MDD), Obsessive-Compulsive Disorder (OCD), Stroke, Parkinson's, aiding in motor function rehabilitation, improving Memory and Cognitive Function.

Weak Magnetic Fields (6mT-10mT):

It is used in neurorehabilitation to provide milder stimulation. Mainly used for relaxation, improving sleep and reducing stress.

4. Shock Selection

When to Turn On Shock?

1. Sensitive Individuals: If a patient is particularly sensitive to the mechanical sensation of the TMS device, It can act as a form of sensory masking or distraction.

2. Relaxation: Vibration might be turned on to help patients relax during the treatment, especially if they experience anxiety or discomfort.

3. In some cases, vibration might be used to enhance the therapeutic effects of the TMS treatment, particularly in motor rehabilitation or neuroplasticity enhancement.

When to Turn Off Shock?

1. Preexisting Conditions: If the patient has conditions that might be exacerbated by vibration, such as certain neurological disorders, vibration might need to be avoided.

2. Sensitivity to Vibration: For some individuals, vibration can be distracting or uncomfortable. In such cases, it's better to turn off the vibration.

5. Product Overview

RTMS Main Unit: The core device that controls and delivers magnetic stimulation.

Magnetic Coil: This component generates the magnetic pulses used in treatment.

Control Panel: Interface for setting and adjusting treatment parameters such as intensity and frequency.

Power Supply: Connects the device to a grounded electrical outlet.

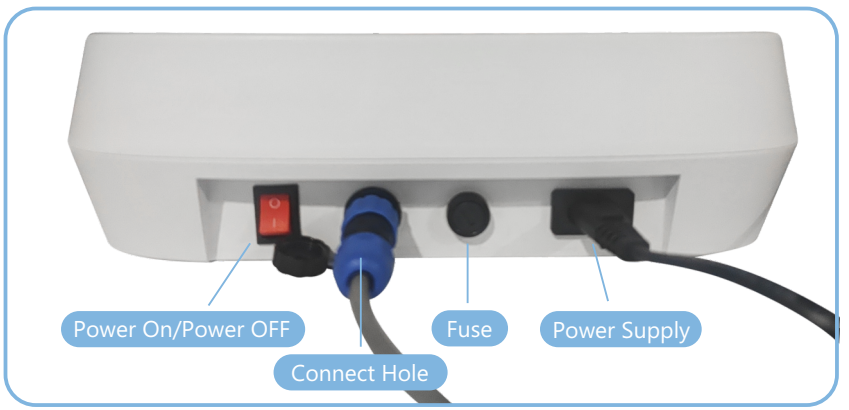
6. Installation and Setup

Unpacking: Carefully unpack the machine and all components.

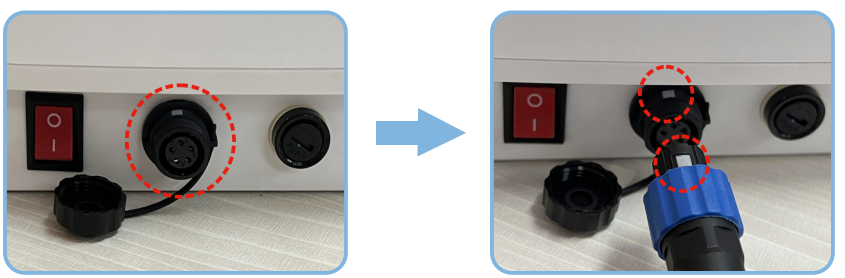
Placement: Ensure the machine is placed on a stable surface in a well-ventilated area.

Power Connection: Plug the power supply into a grounded outlet.

Coil Attachment: Attach the magnetic coil securely to the designated port on the main unit.



Note: The white dots of the connecting hole and the connecting cord should be connected accordingly.



7. Operating Instructions

Power On: Press the power button on the control panel to turn on the device.

Adjust Settings:

1.Time Setting: Press the "Time" button and use the +/- buttons to adjust the duration in 5-minute steps, up to a maximum of 95 minutes.

2.Frequency Setting: Press the "Fixed/Adjust Frequency" button. If "Fixed Frequency" appears on the screen, use the +/- buttons to set your desired frequency. If "Adjust Frequency" is shown, use the +/- buttons to set your desired frequency.

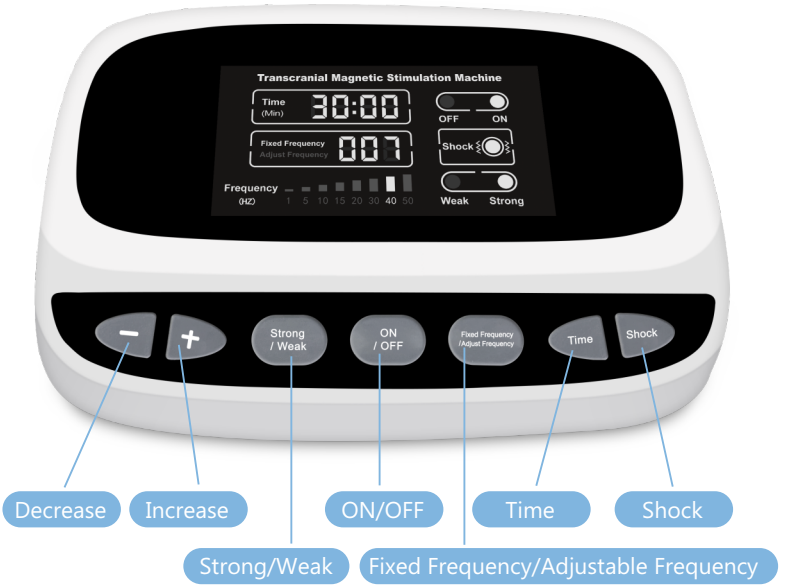
3.Electric Stimulation: If the screen shows "Electric Shock," it is activated. If not displayed, it remains off.

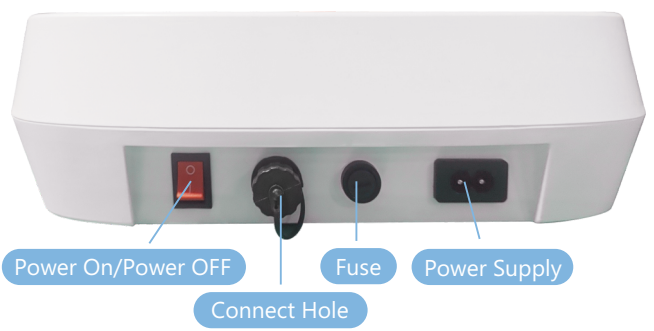
4.Magnetic Field Strength: Switch between "Strong" and "Weak" modes, which grade is displayed, it is activated.

Coil Positioning: Adjust the treatment head and position the coil for optimal therapy.

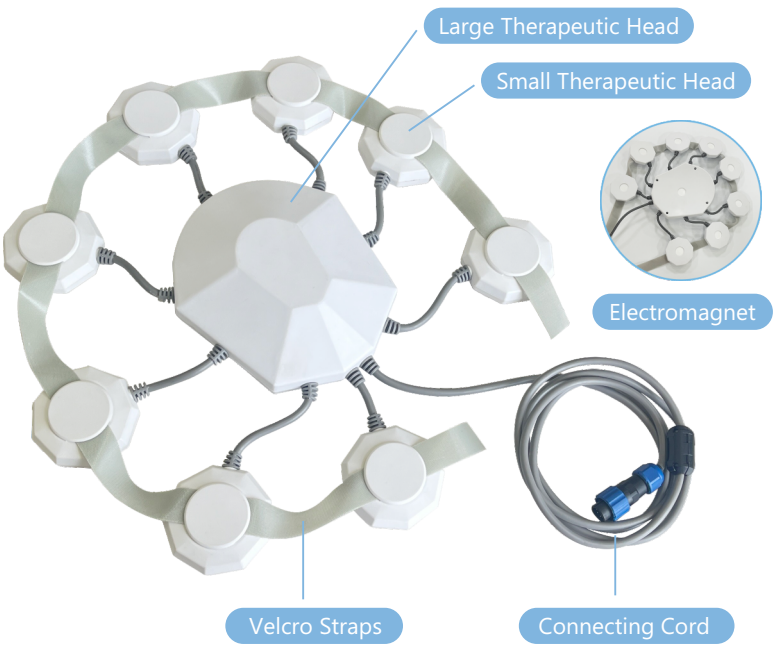
Start Treatment: Press the start button to initiate the session. Monitor the patient throughout the treatment.

End Treatment: After the session, press the stop button and turn off the device. Unplug the machine when not in use.


Transcranial Magnetic Stimulation Machine
Time
(Min)
30:00
OFF
ON
Fixed Frequency
Adjust Frequency
007
Shock
Frequency
(HZ)
1 5 10 15 20 30 40 50
Weak
Strong
Strong
/ Weak
ON
/ OFF
Fixed Frequency
/Adjust Frequency
Time
Shock
Decrease
Increase
ON/OFF
Time
Shock
Strong/Weak
Fixed Frequency/Adjustable Frequency


Power On/Power OFF
Fuse
Power Supply
Connect Hole


Heat Dissipation Hole


Large Therapeutic Head
Small Therapeutic Head
Electromagnet
Velcro Straps
Connecting Cord

8. Function Instructions

1. Transcranial Magnetic Stimulation Machine magnetic field output intensity: 2 levels, first level Weak intensity range 6mT-10mT, second level Strong intensity range 11mT-19mT.

2. The treatment time is adjustable, the adjustment range is 0-95 minutes, each adjustment increases or decreases by 5 minutes, and the output stops after the treatment time countdown ends, and there is a sound prompt.

3. Transcranial Magnetic Stimulation Machine Shock Mode:

Shock Mode 1: Shock 0.5 second, rest 2 seconds; cycle in sequence;

Shock Mode 2: Shock 0.5 second, rest 1 second, Shock 0.5 second, rest 2 seconds; cycle in sequence;

Shock Mode 3: Shock 0.5 second, rest 1 second, Shock 0.5 second, rest 1 second, Shock 0.5 second, rest 2 seconds; cycle in sequence;When Shock is turn on, the machine will automatically switch between Shock Mode 1, 2, and 3. Each mode operates for 30 seconds before transitioning to the next mode.

4. Basic Parameters: The magnetic field output waveform is a sine wave, and you can set it to work at a Fixed Frequency or Variable(Adjust) Frequency.

9. Treatment Mode

Our rTMS machine offers two frequency modes: 8 Fixed Frequency Modes and 11 Variable(Adjust) Frequency Modes. It's designed to treat various neurological and psychiatric conditions. Each mode has specific applications, allowing for customized treatments based on your needs.

Fixed Frequency Modes: These operate at a single fixed frequency throughout the treatment session, providing consistent stimulation. The fixed modes offer frequencies of 1Hz, 5Hz, 10Hz, 15Hz, 20Hz, 30Hz, 40Hz, and 50Hz.

001、002、003、004、005、006、007、008.(1Hz、5Hz、10Hz、15Hz、20Hz、30Hz、40Hz、50Hz)

Variable(Adjust) Frequency Modes: These modes cycle through multiple frequencies every 5 seconds during each session, providing varied stimulation to optimize treatment outcomes for complex conditions. There are 11 variable(Adjust) frequency modes, each incorporating different combinations of frequencies.

F01 : 002、003、005、006、007、008(5Hz、10Hz、20Hz、30Hz、40Hz, 50Hz) for comprehensive brain stimulation across a wide range of conditions.

F02 : 001、002、005(1Hz、5Hz、20Hz) for a balanced approach to both inhibitory and excitatory stimulation.

F03 : 007、008(40Hz、50Hz) for strong excitatory effects targeting Parkinson's and severe pain.

F04 : 005、006、007、008(20Hz、30Hz、40Hz、50Hz) for strong excitatory stimulation aimed at advanced neurological conditions.

F05 : 004、005、006(15Hz、20Hz、30Hz) for moderate to strong excitatory treatment.

F06 : 002、004、005.(5Hz、15Hz、20Hz) for a mix of mild to moderate excitatory stimulation.

F07 : 004、005(15Hz、20Hz) for moderate excitatory stimulation.

F08 : 006、008.(30Hz、50Hz) for strong excitatory effects.

F09 : 003、005.(10Hz、20Hz) for excitatory stimulation.

F10 : 004、005、006、007、008(15Hz、20Hz、30Hz、40Hz、50Hz)for comprehensive excitatory effects.

F11 : 001、002、003、004、005、006、007、008(1Hz、5Hz、10Hz、15Hz、20Hz、30Hz、40Hz、50Hz) for a versatile treatment option across various conditions.

10. Treatment Recommendations

Condition	Fixed Mode	Variable(Ajdust) Mode	Session Duration	Session Frequency
Depression	1Hz, 10Hz, 15Hz, 20Hz+	F01, F02, F06, F07, F11	20-30 mins	5 times/week for 4-6 weeks
Smoking Cessation	10Hz	F01	20 mins	3 times/week for 4 weeks
Autism	1Hz, 5Hz	F01, F02, F11	20-25 mins	4 times/week for 6 weeks
Schizophrenia	20Hz, 30Hz	F04, F05, F06, F11	25-30 mins	5 times/week for 6 weeks
Parkinson's	20Hz, 40Hz, 50Hz	F03, F04, F08, F11	20-30 mins	5 times/week for 4-6 weeks
Severe Pain	40Hz, 50Hz	F03, F08	20mins	5 times/week until relief
Stroke Recovery	5Hz, 10Hz, 20Hz+	F01, F09, F10	20-30 mins	5 times/week for 4-6 weeks
PTSD	1Hz, 10Hz	F01, F11	20-30 mins	4 times/week for 6 weeks
Traumatic Brain Injury (TBI)	10Hz, 20Hz	F04, F05,F10	20-30 mins	5 times/week for 6 weeks
Alzheimer's	10Hz	F01, F06, F07, F11	20-30 mins	4 times/week for 6 weeks
Chronic Pain	20Hz, 30Hz	F01	20-30 mins	5 times/week for 4-6 weeks
Cognitive Enhancement	10Hz, 15Hz	F01, F02, F06, F07, F11	20 mins	3-4 times/week for 4 weeks
Migraine	10Hz	F01	20 mins	As needed for relief
Epilepsy	1Hz	F02, F11	20-25 mins	5 times/week for 6 weeks
Insomnia	1Hz	F02, F11	20-25 mins	3-4 times/week for 4 weeks
Brain Attack	1Hz, 20Hz	F01, F04	20-30 mins	5 times/week for 6 weeks
Anxiety	1Hz	F02	20-25 mins	4 times/week for 4 weeks

11. Contraindications

Here is a comprehensive list of common contraindications that can be included:

1. Implanted Metallic or Electronic Devices: Pacemakers Deep Brain Stimulation (DBS) Implants Cochlear Implants Vagus Nerve Stimulators Intracranial Electrodes or Aneurysm Clips Any other implanted electronic or metal device rTMS may interfere with these devices, causing malfunction or injury.

2. Seizure Disorders: Individuals with a history of epilepsy or seizure disorders should avoid rTMS, as it can potentially trigger seizures.

3. Severe Head Trauma or Brain Lesions: Patients with recent severe head trauma, intracranial lesions, or brain tumors should not undergo rTMS.

4. Pregnancy: The safety of rTMS during pregnancy has not been established. Pregnant women should avoid this treatment unless explicitly recommended by a healthcare provider.

5. Uncontrolled or Untreated Psychiatric Disorders: Patients with severe mental health conditions such as active suicidal thoughts, mania, or psychosis should consult a psychiatrist before undergoing rTMS therapy.

6. Recent Stroke: Individuals who have recently experienced a stroke should consult a healthcare provider before undergoing rTMS therapy.

7. Children and Adolescents: The safety and efficacy of rTMS in children and adolescents are not well-established. Use of rTMS in these populations should only be considered under the supervision of a healthcare provider.

8. Medication and Substance Use: Some medications, particularly those that lower the seizure threshold (e.g., certain antidepressants, antipsychotics, and stimulants), may increase the risk of seizures during rTMS therapy. Patients should inform their healthcare provider about all medications they are taking.

12. Technical Specifications

Product Name: Transcranial Magnetic Stimulation Machine

Model Number: JLC01

Number of Therapeutic Heads: 1 Large Therapeutic Head+8 Small Therapeutic Head

Magnetic Field Frequency: 1/5/10/15/20/30/40/50Hz, 8 Fixed Frequency Adjustable

Variable(Adjust) Frequency Modes: 11 Modes to Choose

Weak Level Magnetic Strength: 6mT-10mT

Strong Level Magnetic Strength: 11mT-19mT

Head Vibration Mode: Available

Time: 0-95 Minutes, Every 5 Minutes Adjustable

Net Weight: Machine: 1kg / 2.21lbs, Therapeutic Head: 0.7kg / 1.54lbs

Machine Size: 27.97*18.97*8.06cm / 11.01*7.47*3.17in

Power Supply: AC 100V-240V, 50Hz/60Hz

13.Packing List



Transcranial Magnetic Stimulation Machine



Magnetic Therapeutic Head



Packing Box



US/UK/EU/AU

Charging Cord



User's Manual

14. Maintenance and Care

Cleaning: Use a soft, damp cloth to wipe the device and coil. Avoid harsh chemicals.

Routine Inspection: Regularly check the device for signs of wear or damage, especially the coil connection.

Calibration: Ensure that the device is calibrated according to the manufacturer's guidelines.

Storage: Store the device in a cool, dry place when not in use.

15. Warranty

Under normal use this product is guaranteed for 1 year after its original purchase date against manufacturing defects in materials or workmanship. This warranty extends only to the original purchaser.

If the product should become faulty within the warranty period, contact your provider. Please feel free to contact us at

info@zjzklasershop.com or visit **www.zjzklasershop.com**

if you have any comments about the Transcranial Magnetic Stimulation Machine or this User Manual.

16. Disclaimer

1.The health benefits suggested or implied in this manual, other product literature, and website are not certified or endorsed by any regulatory authority or medical institute.

2. The use of this device is entirely at the user's discretion. Please read all instructions and safety information carefully before using this product. We assume no responsibility for personal injury or property damage sustained by or through using this product.

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