

Think GAIA
For Life and the Earth

Massage Lounger

SANYO

HEC-DR8700



EXPERIENCE ULTIMATE COMFORT
FOR THE BODY AND MIND.

HOW THE MOST ADVANCED SENSOR TECHNOLOGY CAN ENHANCE MASSAGE.

Human beings can suffer from both physical and mental fatigue. The therapy has been designed based on a "stiffness feeling" as physical fatigue, and now the stress sensor, senses the degree of "stress" i.e. mental fatigue. The massage lounge's massage promotes relaxation according to the stress level. The HEC-DR8700 massage lounge offers treatment of both the mental and physical aspects through the stiffness sensor and stress sensor working together. SANYO massage loungers are closer to the techniques of a professional masseur than ever before.

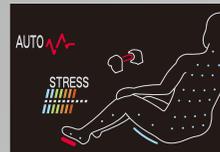
STRESS SENSOR

Selecting the Full Auto Course and inputting your age will measure your pulse fluctuations (R-R intervals as seen in an electrocardiogram) and determine the degree of stress. Research Center for Sports and Healthcare Technology of Ritsumeikan University and SANYO Electric Co., Ltd. have conducted cooperative research on electrocardiographic measurement and applied technology. (from 2006 to 2008: MEXT Knowledge Cluster Initiative)



Grip the sensor controller with the fingers of both hands.

When stress measurement is completed, the measured degree of stress is displayed.



Sensor Controller

STIFFNESS SENSOR

This sensor detects the amount of stiffness you're feeling in your body by sensing physiological response variations. It then automatically adjusts to provide the best massage for your body in the same way a professional senses your stiffness with the fingertips.



Grip the sensor controller with the fingers of one hand.

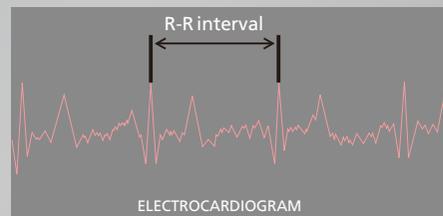


3 stiffness levels (High/Low/None) are indicated.

- When stiffness measurement is completed, the measured degree of stiffness is displayed.
- Areas where a high degree of stiffness has been detected.
- Areas where a low degree of stiffness has been detected.

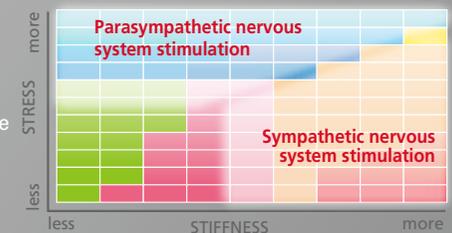
How to measure stress

Grip the stress sensor with both hands to measure your pulse fluctuations of R-R intervals as seen in an electrocardiogram and determine the degree of stress. The fluctuations of R-R intervals are called CVRR (Coefficient of Variation of R-R Intervals). The higher this value is, the more relaxed you are. The lower it is, the more stress you are experiencing. The CVRR index differs according to age, so input your age for greater accuracy. SANYO bases measurements and verification of CVRR of our massage loungers on testing conducted by the Department of Kansei Design of Hiroshima International University.



Course selection of Full Auto

If the double-function sensor finds your stress level high, a gentle massage that stimulates the parasympathetic nervous system is provided. If stiffness is high, you receive a massage that stimulates the sympathetic nervous system. So each time you enjoy the ideal massage for your condition, refreshing both body and mind.



BEST POSITION 1

Relaxation through a Neutral Body Posture.

The seat angle adjusts upward 30 degrees to approximate the Neutral Body Posture, spreading the load of the body optimally and achieving a comfortable sitting position.

This prevents the body's load from being applied too much to one area, thus allowing the user to relax in a natural posture.

The lower-back area fits snugly for a feeling of being absorbed into the chair, providing the ideal conditions for the user to receive a thorough kneading massage.

New shoulder grasping & kneading

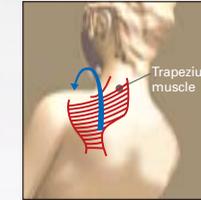
Significantly improving the performance of a conventional massage robot, the advanced mechanism featuring 35mm (1 3/8") "massage roller with joints"—the largest in its class—projects forward approximately 145mm (5 3/4").

The "thumb-type massage roller" operates like the fingers of a professional masseur grasping the shoulders, and kneads to relieve stiffness. Professional hand techniques are accurately emulated to give the user a comfortable massage. The wider massage heads allow the massage heads to come in contact with the body of the user over a wider area than conventional units and provide a rolling massage like the fingers of a masseur.



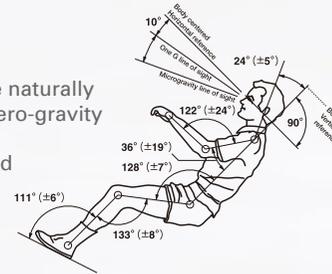
Trapezius muscle grasping & kneading

Shoulder stiffness is usually attributed to poor blood flow within the trapezius muscles. This represents the movement of grasping and kneading these muscles.

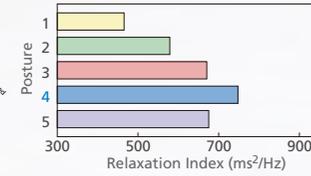


"Neutral Body Posture"

is the optimal relaxed posture naturally assumed by a person in the zero-gravity conditions of outer space. This posture has been adopted by many other applications since being introduced by the aerospace industry.



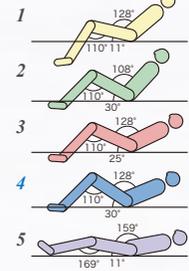
Body Relaxation by Posture Changes



Body relaxation index peaks when Posture 4 (closest to "neutral body posture") is selected.
Evaluation Method: Measuring 5 different postures.

Evaluated by: Research Center for Sports and Healthcare Technology of Ritsumeikan University

Experiment Angles



BEST POSITION 2

The Ideal Position for Air Massage.

Lifts the legs and feet to be parallel with the floor for a posture suitable for leg/foot massages. *Shiatsu* nodes effectively stimulate for a fully relaxed feeling while a gentle air massage is applied to the back.

* Automatically starts massaging in Comfort Air Course.



Ankle grip massage

The location of the built-in airbags is extended to the heel, to grip a wide range from the ankles to the heel and provide a massage similar to how the palm of a hand loosens stiffness.



the physical range of airbags



Lower back & thigh airbags

With your lower back in exactly the right position, the air bags expand and provide a comfortable massage. Your buttocks are also massaged to thoroughly relieve fatigue.

Undulating Sole *Shiatsu*

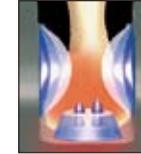
Each foot is securely cradled by airbags that inflate and deflate to mimic the alternating compression technique of a live massage.

Outer Sole *Shiatsu*



Outer airbag is inflated.

Center Sole *Shiatsu*



Both airbags are inflated.

Inner Sole *Shiatsu*

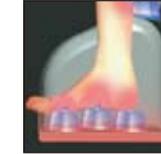


Inner airbag is inflated.

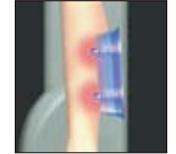
Sole airbags & calf massage

Shiatsu nodes provide a deep massage to the soles and calves. Side airbags inflate to further stimulate calves.

Sole airbags



Calf massage



Sole heater

The sole section incorporates a built-in heating function that warms the soles to allow the user to enjoy a more comfortable massage.



BEST POSITION 3

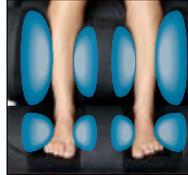
The Ideal Position for Effective Stretching.

Raising the legs transfers the load from the feet to the lower back, which promotes a posture suitable for stretching. The rolling massage on the back and angle changes of the legs provide effective stretching.

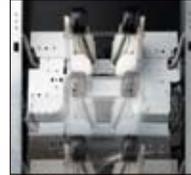
* Stretch Course massage will be selected automatically.

Stretch Mode

The airbags hold legs and feet, and the footrest automatically adjusts upward and downward, effectively stretching entire legs. Also, the back muscles are stretched for a full body experience.



Airbags hold legs and feet



Movement of stretching back muscles

Newly-designed leg sliding mechanism

Expands the sliding depth to 210mm (8 1/4"). Sliding the leg section up and down adjusts the unit to the best possible position to fully massage the legs right to the soles of the feet, according to the user's body shape and leg length. In addition, a new mechanism that changes the calf unit position with the sliding movement is employed.



Even if the leg unit is fully extended, it will be positioned at the proper height to fit the calves. This massage lounger provides satisfactory massage through the soles to the calves according to various users' heights.

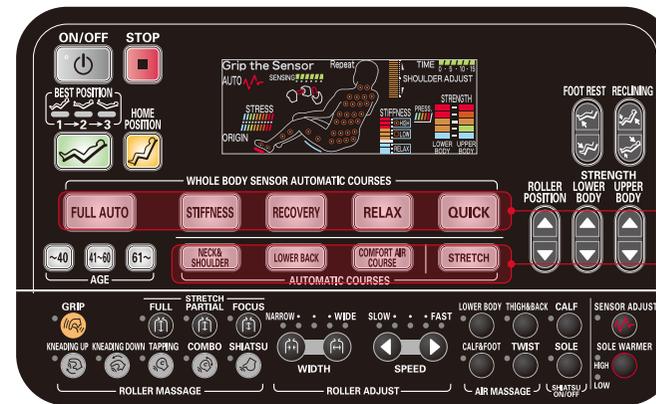


Specifications

Power consumption	200 W - 290 W	
Power dissipation of electric heating equipment	33 W	
Rated time	30 min.	
Timer	WHOLE BODY SENSOR AUTOMATIC COURSES FULL AUTOApprox. 17 minutes STIFFNESS, RECOVERY, RELAXApprox. 15 minutes QUICKApprox. 8 minutes (Maximum of approx. 20 minutes due to stiffness detection) AUTOMATIC COURSESApprox. 15 minutes MANUAL COURSESApprox. 15 minutes	
Dimensions	730mm (28 3/4") [width]×1,370mm (53 7/8") [depth]×1,220mm (48") [height] * When upright (with footrest retracted) 730mm (28 3/4") [width]×1,940mm (76 3/8") [depth]×760mm (29 7/8") [height] * When reclined (with footrest horizontal)	
Weight	Approx. 90kg (198 lbs)	
Cord length	Approx. 2.1m (82 5/8")	
Upholstery	Synthetic leather	
Accessories	Stand, Installation screws (Three)	
Frequency	Gripping	(5 stages) Approx. 9 - 24 times per minute
	Kneading (up/down)	(5 stages) Approx. 10 - 30 times per minute
	Tapping	(5 stages) Approx. 300 - 600 times per minute
	Shiatsu	(5 stages) Approx. 4 - 14 times per minute
Width	Tapping	(5 stages) Approx. 63 - 140mm (2 3/8" - 5 1/2")
	Spine stretching	(5 stages) Approx. 63 - 140mm (2 3/8" - 5 1/2")
Vertical movement speed	One up/down pass in approx. 34 sec.	
Range of partial stretching	Partial stretching (Partial) : Repetition with approx. 210mm (8 1/4") Partial stretching (Focus) : Repetition with approx. 110mm (4 3/8")	
Massage rollers up/down range	Approx. 780mm (30 5/8")	
Height adjustment for massaging rollers	No gradation or approx. 1cm (3/8")/one press of button	
Reclining angle	Approx. 120° - 170°	
Reclining method	Backrest : Motor-driven type (Linked with footrest) Footrest : Motor-driven type (Footrest only) Seat surface : Motor-driven type (Linked with backrest and footrest)	
Air pressure	(3 stages) Approx. 11-28kPa * There is a slight difference according to the part.	

Note : Product appearance and specifications are subject to change without notice.

Remote Control



Whole Body Sensor Automatic Courses

Automatic Courses

Manual Courses



Sensor Controller

Whole Body Sensor Automatic Courses

- FULL AUTO Full Auto Course**
Fully automatic massage based on the degrees of stress and stiffness
- STIFFNESS Stiffness Course**
Uses mainly realistic *Shiatsu*, pressing slowly and deeply to relieve stiff muscles.
- RECOVERY Recovery Course**
Uses mainly tapping and kneading to relieve muscle fatigue.
- RELAX Relax Course**
Uses mainly kneading and light tapping to gently stimulate body.
- QUICK Quick Course**
Short massage to promote blood circulation (Reduced time course)



HEC-DR8700

Distributed by

SANYO

SANYO Electric Co.,Ltd.

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