



# User Manual

Thank you for purchasing this equipment. To ensure that you use this equipment safely and correctly, please read this User's Manual and be sure you have understood its contents before using it.

Home Use

## Magnetic Field Equipment

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# Cautions on Use

Before using the equipment, please read these “Cautions on Use” to ensure that you use it correctly and safely. Here we describe the various degrees of injury and damage that can occur if you ignore the posted instructions and use the equipment incorrectly, divided into categories in the table below.



## WARNING

Indications in this column warn of possibility of death or serious injury.



## CAUTION

Indications in this column warn of possibility of light injury or damage to physical property.



## WARNING



The following persons are advised not to use the equipment, as its use together with the medical electrical appliances described may have adverse effects.

- ▶ Persons using a pacemaker or other implanted electrical medical equipment which may be prone to electromagnetic damage
- ▶ Persons using a variable cerebrospinal fluid shunt or other implanted medical equipment which may be affected by electromagnetic radiation



To avoid moderate-temperature burns:

- ▶ If the equipment feels hot during use, immediately stop using it.
- ▶ Do not use for extended periods of time on the same part of the body.
- ▶ Before using, remove any metal objects in direct contact with the skin.
- ▶ Avoid falling asleep while using the equipment.
- ▶ The following persons should use the equipment under the supervision or instruction of a person who can be safely entrusted to do so:
  - Children and others who require assistance or are not competent to decide for themselves
  - Persons with weak or sensitive skin
  - Persons taking sleep medication, cold medication or other medication that can cause drowsiness
  - Persons under heavy influence of alcohol or fatigue



## CAUTION



Persons receiving medical attention or others with any of the conditions listed below are strongly advised to consult a physician before using the equipment.

- ▶ Malignant tumor
- ▶ Sensitive period of first trimester of pregnancy or immediate post-partum
- ▶ Heart damage
- ▶ Loss of sense of temperature
- ▶ Requiring rest
- ▶ Infectious disease or wound on the skin
- ▶ Temperature of 38°C or higher (fever)
  - Symptoms of acute inflammation (severe fatigue, chills, blood-pressure fluctuation, etc.)
  - Weakness
- ▶ Perceptual disorder caused by severe peripheral circulatory disturbance from diabetes
- ▶ Condition causing acute pain, such as a sprain or torn muscle

# CAUTION



## To avoid electrical shock and injury:

- ▶ Absolutely do not disassemble or modify the equipment.
- ▶ Do not attempt to repair the equipment yourself. If you discover that the power cord has become damaged or failed, contact your vendor.



## To avoid electrical shock and injury:

- ▶ Do not use the equipment in humid locations such as bathrooms.
- ▶ Do not allow water or other liquids to come into contact with the equipment while it is in use.



## In the following situations, immediately turn the power OFF and disconnect the power plug from the power outlet.

- ▶ Deformation, discoloration, unusual odor or unusual noise has occurred.
- ▶ The equipment has become damaged or failed during use.
- ▶ A power failure occurs while the equipment is in use.



## Before using the equipment, note the following cautions:

- ▶ Confirm that the switches work correctly.
- ▶ Confirm that all cords are correctly and securely connected.
- ▶ If you haven't used the equipment for a while, confirm that it runs correctly and safely as described in the User's Manual.
- ▶ Observe the equipment to ensure that children do not play with it.



- ▶ Keep the equipment away from digital clocks, magnetic cards and other equipments that can be affected by magnetism.
- ▶ Do not use the equipment in combination with other therapeutic equipments.
- ▶ Do not use the equipment with a power supply of voltage other than AC 220V - 240V.



## When using the equipment, note the following cautions:

- ▶ If using the equipment seems to have no effect, consult a physician or specialist.
- ▶ Do not use the equipment on one part of the body for more than 30 minutes at a time.
- ▶ If you feel discomfort or something feels wrong, immediately stop using the equipment.



## After using and when storing the equipment, note the following cautions:

- ▶ After using the equipment, be sure to turn the power switch OFF and disconnect the power plug from the power outlet.
- ▶ When disconnecting the power plug, do not hold it by the power cord. Hold the power plug to pull it out.
- ▶ To prevent hindrance the next time you use the equipment, clean the equipment and place and store it in a location of low humidity.
- ▶ For general maintenance, removing surface dust using an electrical vacuum cleaner is sufficient. If heavy dirt has built up, pour a neutral solvent onto a cloth, wring it out thoroughly and wipe. Do not attempt to wash the entire equipment.

# Specifications and Nomenclature

## Specifications

### MIRAITECH

<b>Equipment Category</b>	Mechanical equipment 81: Magnetic field equipment, magnetic field equipment for home use (71015000)		
<b>Certification no.</b>	301AKBZX00006000	<b>Product name</b>	フレミン

<b>Purpose or effect</b>	Relieve muscle stiffness and promote relaxation. Made suitable for home use.
<b>How it works</b>	When you turn on the equipment, it uses electricity to create a magnetic field and gently surrounds your body.

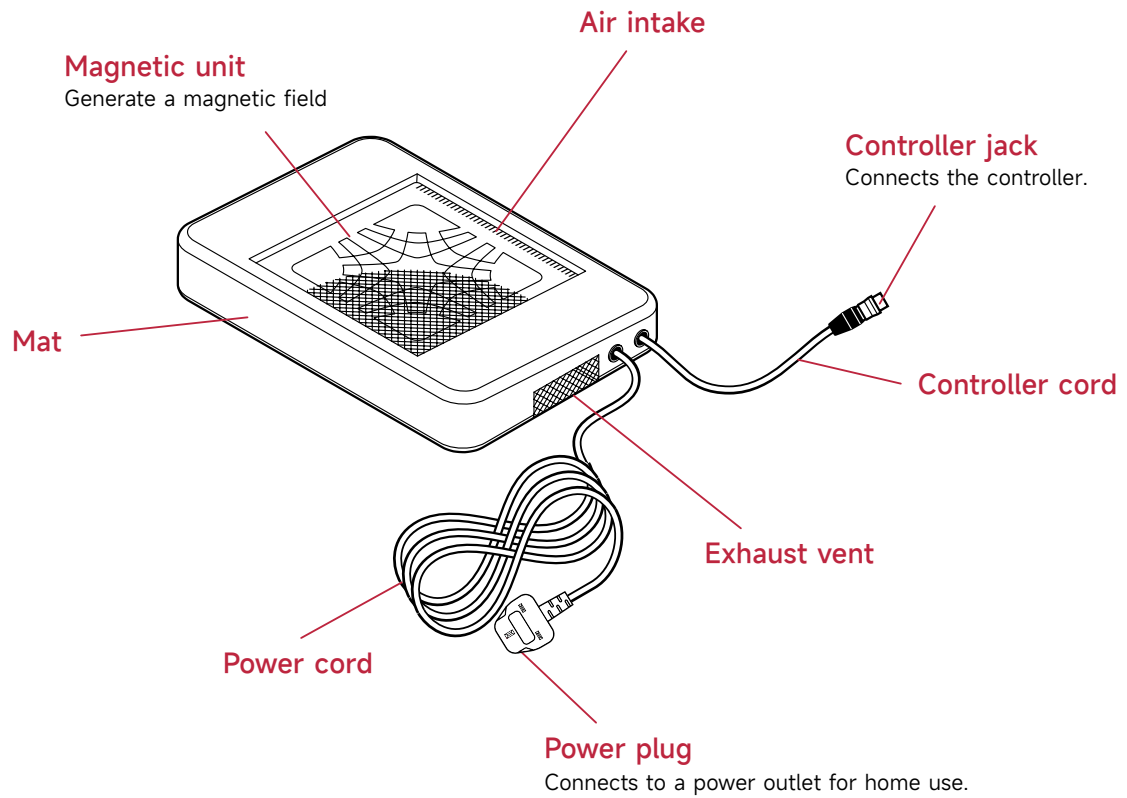
### ● Specifications for product model: ino/2U/3U

Product model	ino		2U		3U	
Dimensions of main unit	320 × 460 × 80 mm		1060 x 460 x 60mm		1570 × 460 × 60 mm	
Weight of main unit	4.3kg		10kg		12kg	
Rate voltage	AC 220V - 240V		AC 220V - 240V		AC 220V - 240V	
Rated frequency (Hz)	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Rated current (A)	1.3	1.1	1.3	1.1	2.6	2.1
Rated capacity (VA) ※1	300	250	300	250	600	480
Max. Magnetic flux density (mT)	180	140	180	140	180	140

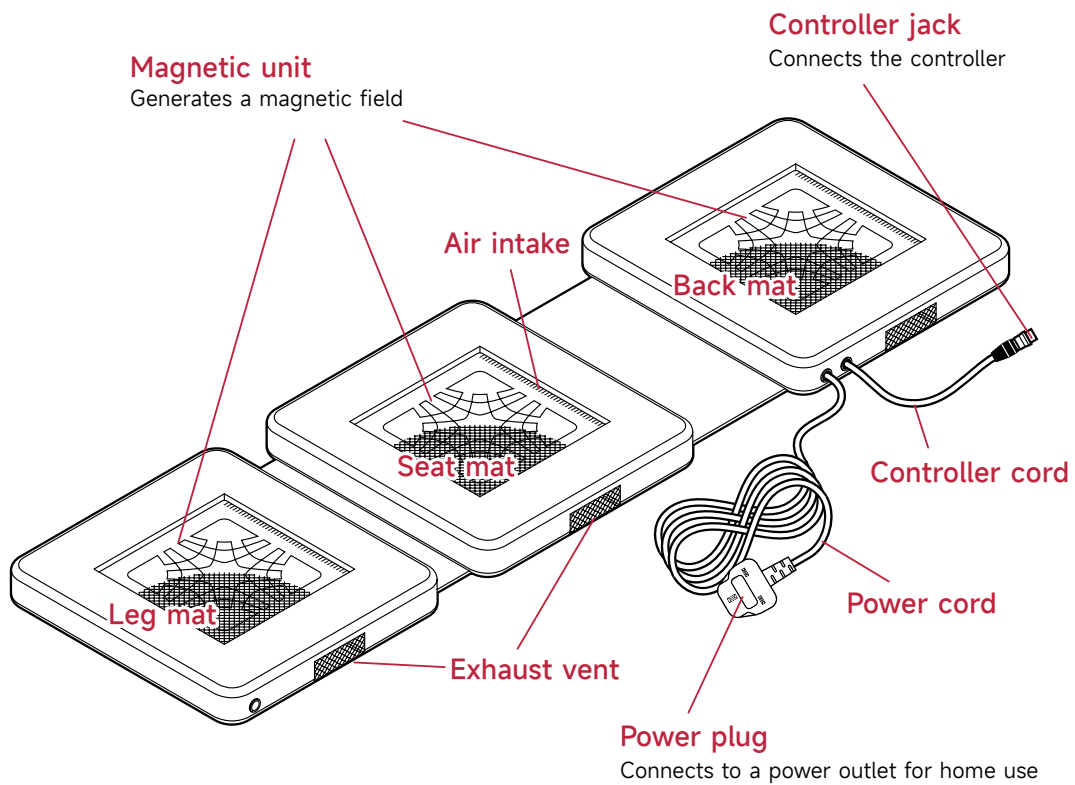
※1. The product of rated voltage and rated current; a theoretical value used as an indicator of quantity of magnetism generated. Not to be confused with power consumption.

# Nomenclature

## ● Main Unit of ino



## ● Main Unit of 2U/3U



# Nomenclature

## ● Controller

### Select Time button

Selects operation preferred time from among 10 min., 20 min. and 30 min.

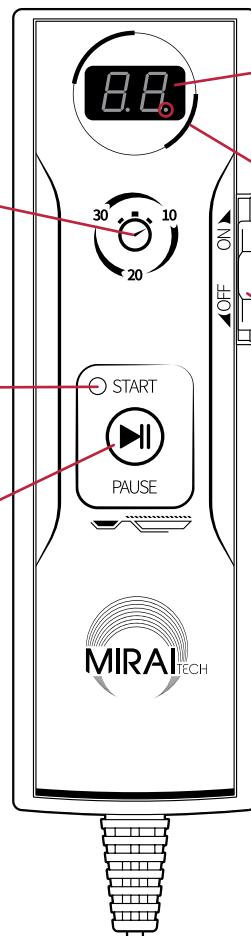
### Pilot lamp

During program operation this lamp is lit green.

### Start/Pause button

Starts and pauses operation

Note: The timer on the controller is not a quartz timer, so do not use it as a clock. Depending on the production lot and the environment in which it is used, error in operation time of as much as 10 seconds may occur.



### Display

The selected operation time is displayed in units of 1 minute. During operation, remaining operation time is displayed in units of 1 minute. Also, during operation the dot at lower right blinks once a second.

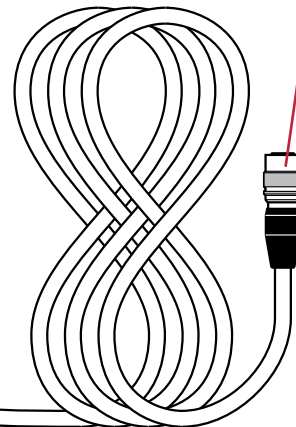
### Main power switch

Turns the main power of the operation equipment ON and OFF.

### Controller lamp

Connects to the controller jack of the equipment.

### Controller cord

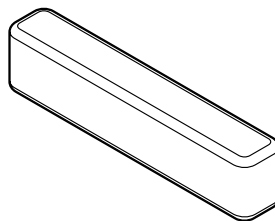


## ● Included Accessories

### Spacer cushions

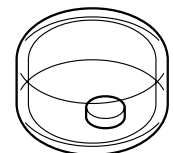
Used to adjust the position of the back mat when the equipment is placed on a chair or the like.

Note: Not included with the ino model.



### Magnetic tester

The magnet sealed inside shakes violently in response to the AC magnetism from the magnetic unit.

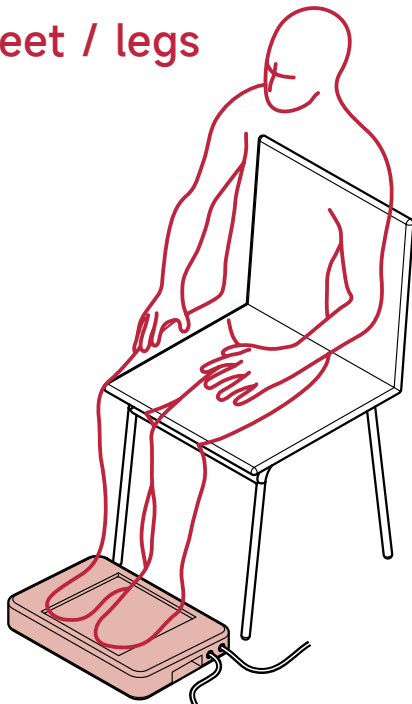


# Placing the Equipment

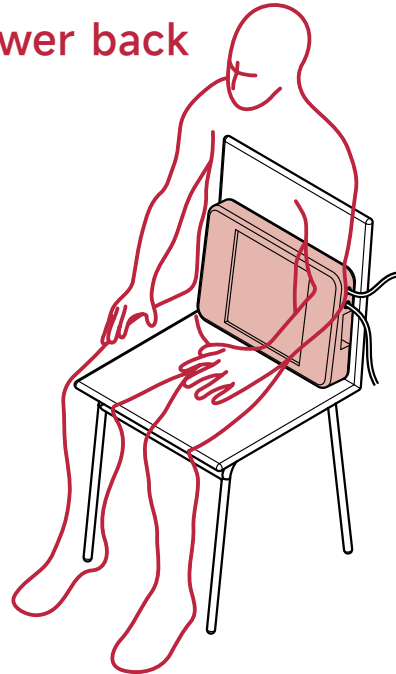
## Placing ino

Place the equipment on a level and sturdy floor or **on a strong and stable chair**, according to the part of your body on which you are using the equipment.

### ● Feet / legs



### ● Lower back



### ● Knees, etc.



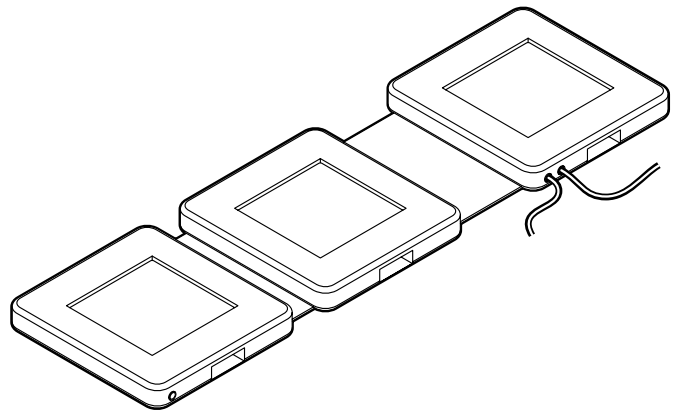
## WARNING

- ▶ Do not place the equipment on a soft, curved or bumpy floor or on an unstable chair. These may result in distortion of the mat, the wrinkling of the leather or other damage to appearance, or damage to the equipment from toppling or falling, in turn resulting in light injury to the user or damage or failure of the equipment.
- ▶ **Ensure that the air intake on the surface of the equipment is completely unobstructed. Also, ensure sufficient space around the exhaust vent on the side.** If the air intake or exhaust vent is obstructed, the magnetic unit may overheat, causing damage, failure or moderate-temperature burn.

# Placing the 2U/3U

## ● Placing on the Floor

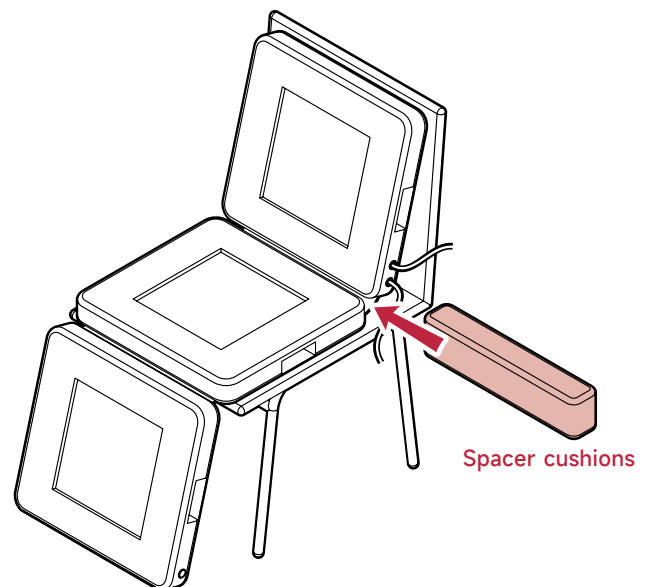
Spread the main unit out straight as shown in the illustration at right and **place them on a sturdy and level floor.**



## ● Placing the Equipment on a Chair,

Bend the main unit as shown in the illustration at right and **place it on a strong and level chair.**

Insert the included spacer cushions according to your preferred seat height and adjust the back mat.



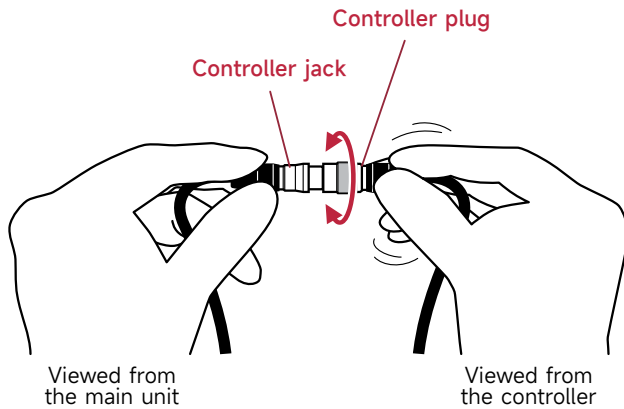
## **WARNING**

- ▶ Do not place the equipment on a soft, curved or bumpy floor or on an unstable chair. These may result in distortion of the mat, the wrinkling of the leather or other damage to appearance, or damage to the equipment from toppling or falling, in turn resulting in light injury to the user or damage or failure of the equipment.
- ▶ **Ensure that the air intake on the surface of the equipment is completely unobstructed. Also, ensure sufficient space around the exhaust vent on the side.** If the air intake or exhaust vent is obstructed, the magnetic unit may overheat, causing damage, failure or moderate-temperature burn.

# Connecting the Equipment to the Controller

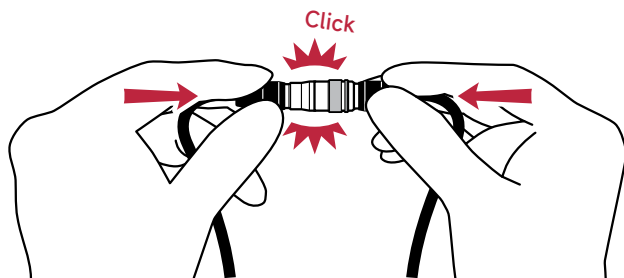
## ● Connecting the Controller

1



The controller plug and jack fit together at a certain position. Press the two lightly together while rotating the plug left and right to find the position where they fit together.

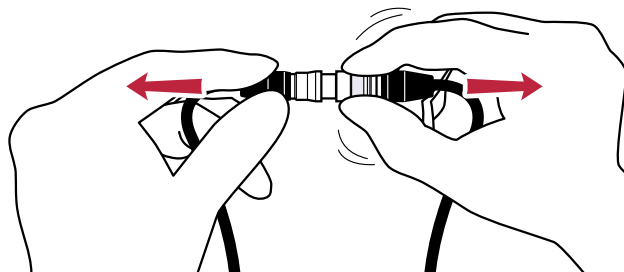
2



Push straight in from both sides. When the two sides fit together correctly, you will hear a click as they lock.

## ● Removing the Controller from the Equipment

3



Grip the controller plug in the location shown in the illustration and pull to release the lock. Pull straight out from both sides.

### ⚠ CAUTION

- ▶ Before connecting and disconnecting the controller, be sure to remove the power plug from the power outlet.
- ▶ The connection between the controller plug and jack is **not a screw-in connection**. When connecting and disconnecting the controller, be sure to follow the procedure above. Do not apply undue force, as damage may occur.
- ▶ When disconnecting the power plug, **do not hold it by the power cord**. Hold the power plug to pull it out.

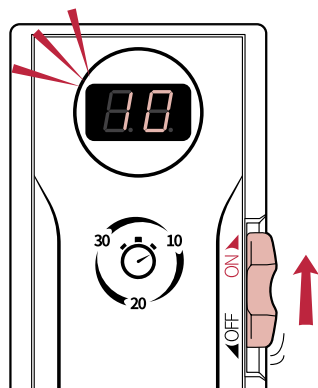
# Performing Operation

## How To Start

1 Insert the power plug into a power outlet.

2 Sit on the equipment.

3 Turn the main power switch of the controller ON.



A beep sounds and the display lights up. The previously selected operation time is displayed **in units of 1 minute**. The operation time selected in the factory settings is 10 minutes.

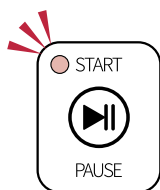
Slide the main power switch up to the ON position.

4 Press and hold the Select Time button to select the operation time.



Each time the Select Time button is pressed and held for **3 seconds or longer**, a beep sounds and the operation time is selected in a rotation of 10 min. → 20 min. → 30 min. → 10 min.

5 Press the Start/Pause button to start operation



A beep sounds and the pilot lamp lights green. The dot at bottom right of the display blinks in 1-second intervals. Each time a minute passes, the display of remaining time until end of operation decreases by 1 minute. You can confirm that the magnetic field is being generated correctly (the embedded magnet shakes violently) by bringing the **magnet tester** close to the magnet unit.

## How To Pause

During operation, press the Start/Pause button.

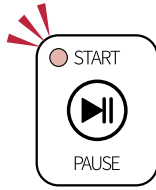


A beep sounds and the pilot lamp lights up.

The dot at bottom right of the display blinks and remaining time display stops counting down.

# How To Restart

With the equipment paused, press the Start/Pause button.



A beep sounds and the pilot lamp lights green.

The dot at bottom right of the display blinks and remaining time display begins counting down again.

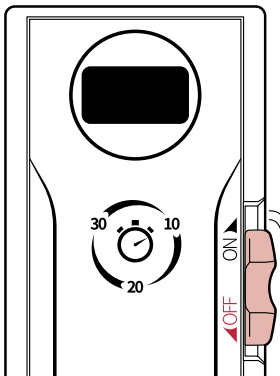
# How To Stop

**1** When the selected operation time has elapsed, the equipment quits automatically.

A beep sounds and the pilot lamp lights green.

The remaining time on the display returns to the state just before operation time was selected.

**2** Turn the main power switch of the controller OFF.



The display is turned off.

Slide the switch down until it reaches the OFF position.

**3** Remove the power plug from the power outlet.

# How To Interrupt

**1** During operation, turn the main power switch of the controller OFF.

The pilot lamp and display are turned off.

**2** Remove the power plug from the power outlet.



## CAUTION

- ▶ When you have finished using the equipment, be sure to turn the main power switch OFF and remove the power plug from the power outlet.
- ▶ When disconnecting the power plug, do not hold it by the power cord. Hold the power plug to pull it out.

# Pressing the Controller Buttons

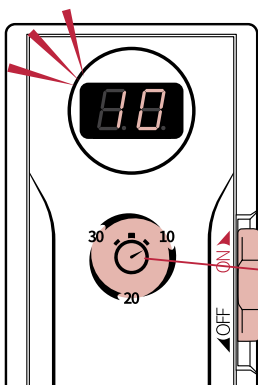
To prevent incorrect operation of or damage to the Select Time button and Start/Pause button of the controller, these parts are designed to require a slightly firm touch to operate. Press these buttons **slowly and fully**. When the button has been pressed correctly you will hear a beep.

## CAUTION

- ▶ When the controller is muted as described below, you will not hear the button operation sounds.

# Mute Function on the Controller

The **button operation sounds on the controller can be muted**. When these sounds are muted, you will not hear a beep when the Select Time button and Start/Stop button are pressed.



## ● Muting and Unmuting

With the power turned OFF, turn the main power switch ON **while holding down** the Select Time button. When you hear a beep and the power turns ON, release the Select Time button.

Hold down the button while sliding the Power button upward to the ON position.

## CAUTION

- ▶ The equipment is shipped with the mute function **inactive**. (When you press the buttons you will hear a beep.).
- ▶ When the mute function is active, you will still hear a beep to tell you that operation is complete.

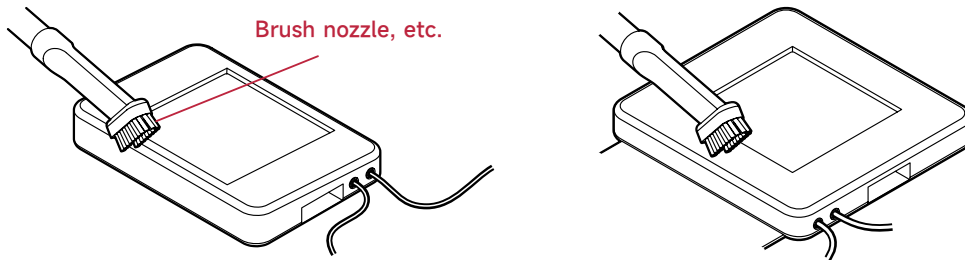
# Care and Storage

## Caring for the Equipment

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### ● Normal Care

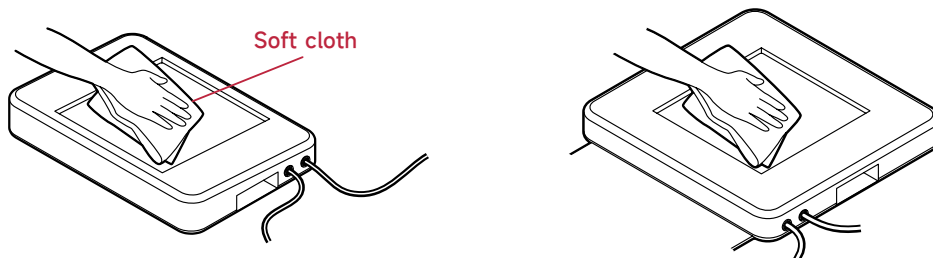
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Remove dirt from the surface of the equipment using a vacuum cleaner with a brush nozzle attachment.

### ● If Extremely Dirty

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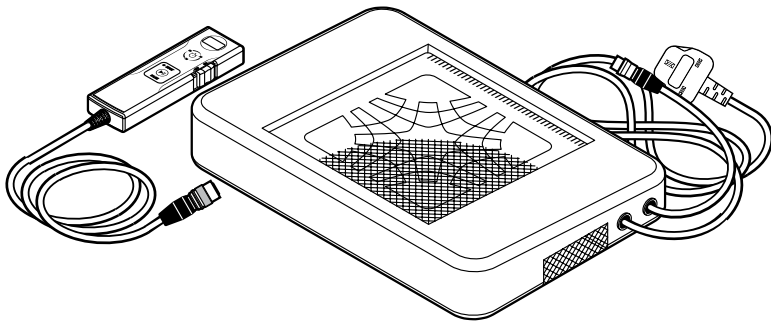


Pour a neutral solvent onto a cloth, wring it out thoroughly and wipe. Afterward, wipe off the solvent so that none remains.

## CAUTION

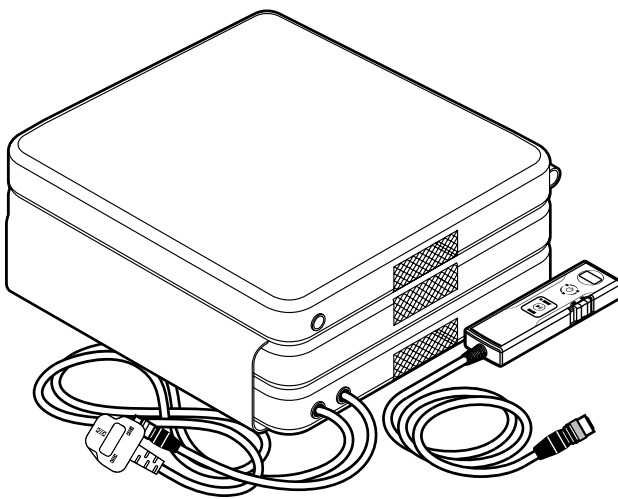
- ▶ **Do not attempt to wash the entire equipment.** Do not splash water on the equipment, as failure may result.
- ▶ Do not use organic solvent, alcohol, abrasive compounds or alkaline cleaning agents, as deformation, discoloration or damage may result.

# Storing the Equipment



Before storing the equipment for a long term, remove the controller. **Avoid** storing the equipment in locations to which any of the following descriptions apply:

- Humid
- Dusty
- Exposed to direct sunlight
- Close to a heater



2U/3U can be folded and stored as shown in the illustration at left. When folding, be careful not to subject the cord to undue force.

## CAUTION

- ▶ **Do not** move the equipment **by pulling the cords**. Instead, pick up and carry the mat.
- ▶ The equipment is **precision equipment**. Do not store it in a high place from which it could fall or with a heavy item on top of it. Falling or imposition of excess weight could cause damage or failure.
- ▶ Do not store the controller, cords or other items between the floor and the equipment, between these and the folded mat, etc. Deformation of the mat from its own weight may cause damage or failure to the controller and equipment.

# When You Think Something's Wrong

## Before You Request Repairs First, check the following points

### ● If this happens

- ↳ Check this.
  - ↳ Fix it like below.

### ● The power won't turn on.

- ↳ Is the power plug inserted in the electrical socket?
  - ↳ Insert the power plug into the electrical socket.
- ↳ Is the controller connected to the equipment?
  - ↳ Connect the controller to the equipment. → P.31
- ↳ Is the circuit breaker disconnected?
  - ↳ Reset the circuit breaker.

### ● Operation doesn't start.

- ↳ Is the Start/Pause button pressed?
  - ↳ Turn the power ON, then press the Start/Pause button. → P.32, 33

### ● Time selection doesn't work.

- ↳ Did you press and hold the Select Time button?
  - ↳ Press and hold the Select Time button for **at least 3 seconds**. → P.32
- ↳ Is the pilot lamp lit?
  - ↳ The Select Time button does not work when operation is in progress (the pilot lamp is lit). Press the Start/Pause button to pause operation or press the Power button again interrupt operation, then try operating time selection.

### ● The magnetic field doesn't activate.

- ↳ Is the magnetic unit hot?
  - ↳ A safety feature to prevent overheating may be in operation. Turn the power OFF and wait for the magnetic unit to cool off, then turn the power ON.
  - ↳ Make sure the air intake on the front of the equipment and the exhaust vent on the side of the equipment have enough room for air to circulate. If the air intake or exhaust vent is blocked, the magnetic unit may tend to overheat.

If you have checked all of the above and the trouble persists, consult with your vendor