# Kiturami



# Kiturami Cabon Mat Ondol User Manual

# Use and Installation

- Carbon Mat Ondol
- KDMU-951 / KDMU-952 / KDMU-953



www.kiturami-usa.com

- \* When using this product on the floor as bed, use it on a mat
- \*\* Do not use with heat-sensitive products such as latex, memory foam, leather, and sponges. Warranty of product will not cover those cases.
- \* If you use it for a long time at high temperature, please be careful about low-temperature burns
- \* Unplug the power when going out or not in use for energy saving and fire prevention.
- \* Please read the manual carefully and keep this manual at easy-to-find place
- \* Please use with caution if you have diseases such as diabetes, high fever, skin disease, etc.,
- \* Be careful of the use for children who are not capable of control or those who do not detect heat
- \* Product design and specifications are subject to change without prior notice for quality improvement.
- \* The images in this manual may not match the product you purchased.
- \* When using the product, be careful not to fold or bend the electric mat. Overheating may occur.

# **User Manual – Contents**

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1. Preparation Precautions for use

# Precautions for use /

Please use it in the correct way after fully understanding the precautions.

Please note that failure to follow the precautions may result in injury or physical damage.

- \*\* In order to prevent accidents due to mistakes in use (misuse) and to use the product more conveniently, precautions are indicated in an easy-to-understand manner. Please read the manual after understanding the indications and contents below.
- \*\* Use of these instructions without understanding may result in death, serious injury, and property damage.



It refers to a dangerous case that may result in serious injury or death if this indication is violated.



Violation of this indication may result in serious injury, so caution is required.





In case of violation of this indication, there is a possibility of minor injury or product damage.



Do not use for children under 3 years of age who cannot react quickly to high temperatures.



# **Danger**

- 1. This product is for 120V only.
- When connecting power, use a grounded outlet. Ungrounded affects the generation of electromagnetic waves.
- 3. Do not touch or unplug the power plug with wet hands. If the cord is damaged, there is a risk of electric shock or short circuit.
- Do not use multiple products at the same time in the outlet, which may cause fire or electric shock due to overload.
- 5. Do not forcibly bend, tie, or pull the power cord, and do not touch the power cord when it is exposed.( It may cause fire due to electric shock or short circuit.)
- Do not place a stove or open flame near the product. It may cause deformation or malfunction or fire.
- 7. If the cord is used in a bent state, it may cause fire or malfunction.
- 8. Do not use the carbon mat in the spa or any humid place. (It may cause a fire due to electric shock or short circuit)

1. Preparation Precautions for use

# Precautions for use /

Please use it in the correct way after fully understanding the precautions.

Please note that failure to follow the precautions may result in injury or physical damage.



# **Danger**

- 1. Be careful of low-temperature burns when using for a long time
- 2. Do not store flammable substances near the product.
- 3. Do not disassemble or modify the easy connector and smart control arbitrarily. (It may cause accidents and malfunctions.)
- 4. Be sure to unplug the power plug when going out or not in use.
- 5. Do not use the mat by folding it or covering it over the body.
- Do not cover the Smart Control with a blanket or use it on a mat. (It may cause overheating)
- 7. When washing, put in a washing net for washing separately, and after washing, do not use a dryer, but natural dry. Never use the product when wet.
- 8. Do not use the product on the bed with temperature control function.



## Danger

- 1. This product is not manufactured for hospital or medical use.
- Never use with heat-sensitive products such as latex, memory foam, leather, or sponges. In the event of a problem, we cannot compensate you for damage.
- 3. Do not impact the easy connector and smart control. It may cause product failure.
- 4. Be careful not to pierce the product with sharp objects such as pins or nails.
- 5. Do not place heavy objects on the mat for a long time.
- People with diseases (health issues) such as diabetes, high fever, skin disease, etc., please use with caution.
- 7. When operating the product, be careful not to allow children to operate it. When using the product, be sure to use it under the guidance of parents. (It may cause electric shock or malfunction in children.)
- 8. Using a controller with a product like humidifier, it may cause electrical short circuits or failure due to moisture
- 9. Please remove the power plug when you go out.
- 10. Please fold the carbon mat by waiting until dry enough when to store or wash (Folding before dry may cause mat failure.)
- 11. Always check the mat and smart controller for any tear or damage. (If torn out or damaged, stop using it and contact our customer center at 888-446-4869)
- 12. Do not put things on the mat when storing it.
- 13. If the mat is wet during use, remove the power cord and dry it completely before use.

1. Preparation Product features

# **Product Features /**

This product has a variety of special features, unlike the existing electric and hot water mats.

## | Features of Kiturami Carbon Mat Ondol



#### **Bluetooth function**

Multiple products can be controlled by a single app.



### Far-infrared emission

By using carbon heating yarn that generates a large amount of far-infrared rays, the natural sense of heat provided by far-infrared rays is delivered deep into the body.



# **Used low voltage**

Unlike general electric mats that use AC120V, this product uses DC24V low voltage, so it is safe from fire and electric shock.



#### Machine washable

When washing, put in a washing net for washing separately, and after washing, do not use a dryer, but natural air dry. Never use the product when wet.



# **High-efficiency power-saving products**

Remarkable energy savings are possible through the low voltage of DC 24V.



#### Resolving harmful electromagnetic waves

Harmful electromagnetic waves have been solved by using a controller that meets the EMF standard



#### Efficiency of storage and portability

It is safe to fold or crumple, so it can be folded several times for easy storage.



#### Wake-up Function

The smart dimming function enables brightness by touching any button once when the LED is off.

1. Preparation Product features

# Product Features and Product Safety Device /

This product is equipped with 9 safety devices. It is a product that has passed thorough performance tests, environmental tests, and reliability tests to ensure safety.

## | Features of Kiturami Carbon Mat Ondol



## **AC120V** exclusive product

This product is for AC120V only.



#### Various sizes

Available in single, queen, and king sizes, depending on individual's preferences.



## **Dual control system**

You can use it safely without worrying about fire or electric shock with 9 safety features



#### Machine washable

When washing, put in a washing net for washing separately, and after washing, do not use a dryer, but natural air dry. Never use the product when wet.



## **Ambient Light Function**

The color changes for each set temperature interval.



#### **Voice Support**

More convenient guidance system with voice support



#### Convenient encoder dial selection

Encoder dialing for convenient function selection

# 9 safety devices







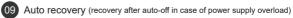










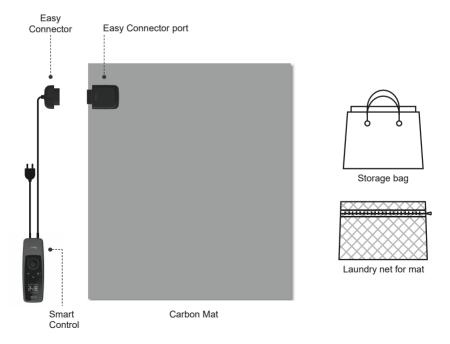


# Product Basic Information /

Product specifications and design are subject to change for quality improvement.

	Model		KDMU-951 / KDMU-952 / KDMU-953 (Modal 51% + AeroSilver 49%)		
tion	Smart Control Size / Weight		215mm X 68mm X 48mm / 1.5lbs		
	Easy Connector Size / Weight		60mm X 126mm X 26mm / 0.1lbs	82mm X 127mm X 26mm / 0.2lbs	
specification		Single	Queen	King	
		Matt size	1,050mm X 2,000mm ± 50mm	1,500mm X 2,000mm ± 50mm	1,650mm X 2,000mm ± 50mm
Product	Specification	Matt Weight	4.1lbs	5.5lbs	6.8lbs
		Rated power consumption	85W (120V, 60Hz)	160W (120V, 60Hz)	160W (120V, 60Hz)
	Country of Origin		Republic of Korea		

**Components :** Carbon mat, smart control / easy connector, storage bag, laundry net for mat, user manual, quick guide

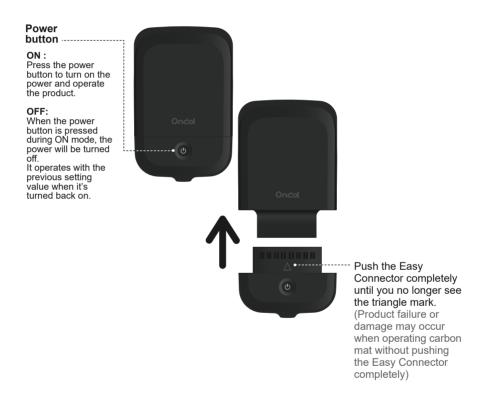


# Product Control (Easy Connector) /

Please use it after understanding the names of each part of the product control panel.

※ Kiturami mat is a dual control system, and the power can also be used with easy connector.

### | KDMU-951 / 952 / 953

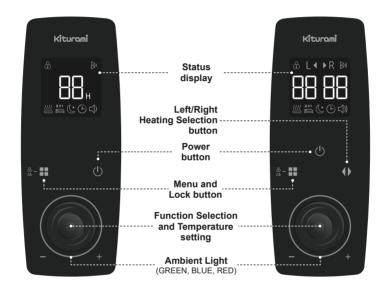


[Remark] As a result of continuous improvement, the design and specifications of the product may differ from this manual statement.

# Product Control (Smart Control) /

Please use it after understanding the names of each part of the product control panel.

| Single heating system (KDMU-951) | Dual heating system (KDMU-952 / KDMU-953)



# Ambient Light (GREEN, BLUE, RED)

Setting temperature lower than 29°C	Green
Setting temperature higher than 30°C	Blue
Setting temperature higher than 40°C	Red

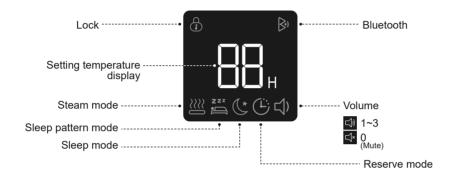
\*\*Do not cover the Smart Control with a blanket when using it. (It may cause malfunction of product)

# Product Control (Smart Control) /

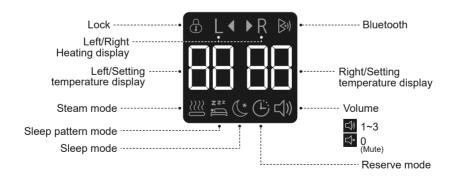
Please use it after understanding the names of each part of the product control panel.

Previous setting temperature will be displayed when the product is re-started.

# | LED Display Single heating system (KDMU-951)



# | LED Display Dual heating system (KDMU-952 / KDMU-953)



# Product Control (Smart Control) /

Please use it after understanding the names of each part of the product control panel.

Previous setting temperature will be displayed when the product is re-started.

- \*\* In case of lock mode, steam mode, sleep mode, or sleep pattern, all button functions are disabled, so press the button to release it and set the function.
- \*\* Smart control / dimming function (automatic) After 3 seconds of operating the smart control, the brightness is switched to 20% to induce a good night's sleep and turns to 0% after 60 seconds to enhance the comforting sleep.
- \*\* Smart control / Wake up function With the smart control dimming function, when the LED is off, touch any button to activate the brightness.



# Power ON/OFF setting \*12-hour auto-off setting is default.

Connect the carbon mat and the easy connector and insert the power plug into the outlet. When the power button is pressed, the display turns on and the product works. (Initial set temperature at the time of shipment: 33 degrees)



#### Temperature setting

\*Temperature setting range: 25~45 degrees, be careful of low-temperature burns when setting over 40 degrees.

#### 1. When using a single mat

- · When the encoder dial is turned in the direction , the temperature rises by 1°C.(1.8°F)
- Turn the encoder dial in the direction 

  to decrease the temperature by 1°C.(1.8°F)
- 2. When using a double mat \* If you set it to 25 or less, the heating is turned off. (displayed as OFF)
- · Press the O left/right heating setting button to set left&right/left/right.
- When the encoder dial is turned in the direction ⊕, the temperature rises by 1°C.(1.8°F)

  Turn the encoder dial in the direction ⊕ to decrease the temperature by 1°C.(1.8°F)
- During the temperature setting, press and hold the 'left/right heating settings button' for more than 3 seconds to initialize to the temperature to 33°C



# Left Right Heating Setting Button

Each time you press the button, left/right heating / left heating / right heating settings are possible, so you can set the left and right temperature differently.



# Reserve mode setting \* Timer setting range: 1 to 10 hours

Each time the button is pressed, it is set in increments of 1 hour, and the carbon mat operates only during the reserved time, after which it turns off automatically. (\*The default setting without reservation is to turn off automatically after 12 hours of operation.

\* Temperature settings can only be set during heating mode.)



**Lock mode setting** • Release your hand from the button after touching to set the lock mode. For the safety of children, press and hold the  $\frac{6}{3a}$  − ■ button for more than 3 seconds to prevent temperature and function control.

You can release the lock mode by pressing the  $\frac{6}{38}$  -  $\blacksquare$  button for 3 seconds.

(\*\* In lock mode, the power button is disabled. If you want to turn off the power, release the lock mode and press the power button.)

# **Product Control** (Smart Control) /

Please use it after understanding the names of each part of the product control panel.

▶ Previous setting temperature will be displayed when the product is re-started.

- \* In case of lock mode, steam mode, sleep mode, or sleep pattern, all button functions are disabled, so press the button to release it and set the function.
- \* Smart control / dimming function (automatic) After 3 seconds of operating the smart control, the brightness is switched to 20% to induce a good night's sleep and turns to 0% after 60 seconds to enhance the comforting sleep.
- \* Smart control / Wake up function With the smart control dimming function, when the LED is off, touch any button to activate the brightness.



#### Steam mode setting

\*Steam mode: temperature 50 degrees / timer 2 hours (all buttons inactive)

When a hot compress is needed, the temperature is maintained at 556 for 2 hours so that you can feel the effect of the compress, after which it returns to the previous set temperature. The mat is hot, so be careful of burns.

(In the Steam mode, the temperature setting dial does not work because it's fixed at 50C.) \* Depending on the external environment, the temperature may not be able to reach 50C.



Sleep mode setting \*Sleep mode: temperature 33 degrees / timer 9 hours (all buttons inactive) It is kept at 33< for 9 hours so that you can take it to sleep and feel refreshed, after which it turns off automatically. It is recommended to use it in sleep mode when sleeping.



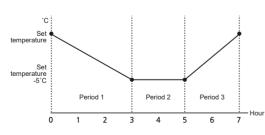
#### Volume control

Each time the button is pressed, the volume of the guidance voice is adjusted in 0, 1, 2, or 3 steps. When On/Off, it operates with the existing setting.



## Sleep pattern setting

Considering that if the set temperature is maintained at the initial stage of operation, the temperature inside the room will rise further. In consideration of the fact that the temperature is lowered slowly from the set temperature for 3 hours to adjust the body temperature of the person, ondol heating takes into account the fact that the body temperature drops when waking up This is an efficient ondol heating function that adjusts the body temperature by raising it to the initial set temperature 2 hours before the end of the set time.



			(Offit: flour)
Setting time	Period 1	Period 2	Period 3
5H	3	0	2
6H	3	1	2
7H	3	2	2
8H	3	3	2
9H	3	4	2
10H	3	5	2

(Linit: hour)

- \* Set temperature: After the temperature gradually drops to -5 degrees for the first 3 hours of the function from the temperature set by the user, it starts to return to the set temperature 2 hours before the end of the function and ends at the set time.
- \* Setting time: Selectable from 5 to 10 hours. (The product will be turned off automatically at the end of the setting time.)

# Product Control (Smart App) /

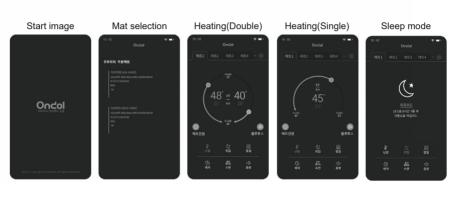
Please use it in the correct way after fully understanding the precautions.

- ▶ Previous setting temperature will be displayed when the product is re-started.
- \* Model: KDMU-951 / KDMU-952 / KDMU-953

# | Kiturami carbon mat app connection and menu

#### · Each function app images

General heating setting(Single,Double), Sleep mode, Steam mode, Reserve mode, Sleep pattern mode, Volume

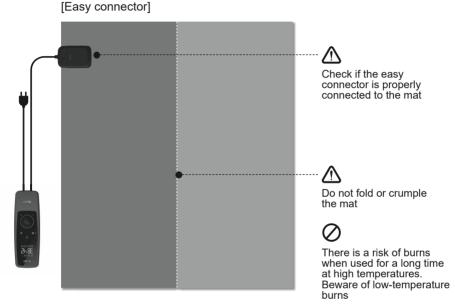




\*This product supports the Bluetooth function from Android 8.0 or higher for smartphones.

# Things to check before using the product /

Please read the checklist before using the product and use it in the correct way.



# Separate heating left/right example (Q/K)

- \*\* The part where the easy connector connection port is located with respect to the center of the mat is "Right" heating.
- · Use after removing the protective film attached to the Smart Control of the carbon mat.
- · Check if the carbon mat is spread out properly.
- · When using the mat, it is recommended to use it together with a pad or blanket to maximize the thermal effect.
- · After use, unplug the power plug to ensure safety.
- · Please do not use control and connection around humid conditions [Remark] As a result of continuous improvement, the mat's color may change.

# Things to check before using the product /

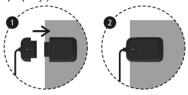
How to install and use the product / Please use the product in the correct way after thoroughly understanding how to install and use the product.

① After removing the outer packaging, unfold it properly so that the connection port is located on the head side.



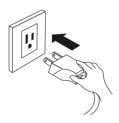
\* Be careful not to damage the product when opening it using a knife or scissors.

② Connect the easy connector properly by pushing the easy connector all the way in until you hear a "click" sound. (If the easy connector is not pushed all the way in, the mat may not be warm or work properly.)



\* If the easy connector is not pushed all the way in, the mat may not be warm or work properly.

③ Insert the power plug into an electrical outlet.



Press the power button to turn on the power.



⑤ Press the temperature setting button to set the desired temperature (temperature setting range: 25°C ~ 50°C)

# 1. When using a single mat

When the encoder dial is turned in the direction  $\oplus$  , the temperature rises by 1°C.(1.8°F)

Turn the encoder dial in the direction  $\bigcirc$  to decrease the temperature by 1°C.(1.8°F)

## 2. When using a double mat

Press the left/right heating setting button to set left&right/left/right.

When the encoder dial is turned in the direction  $\oplus$ , the temperature rises by 1°C.(1.8°F)

Turn the encoder dial in the direction to decrease the temperature by 1°C.(1.8°F)

# How to manage the product /

Please use the product in the correct way after thoroughly understanding how to install and use the product.

# | Features of Kiturami Carbon Mat Ondol



- Keep away from direct sunlight, near fire, or in a humid place.
- Keep out of reach of children.
- If you keep the mat and the smart control separately, you can keep them in a storage bag or wardrobe together with a regular duvet.
- Do not place heavy objects on the product
- When keeping for a long period of time, check the product frequently for damage and if this occurs, contact customer service.

# | Easy Connector / Smart Control



- When the product is contaminated, gently wipe it with a neutral detergent.
- Never use it together with products that chemically react with plastics.
- Be careful not to let detergent or water get inside the easy connector or smart control

#### How to wash



- Completely separate the easy connector from the mat's connection port.
- 2. Put it in the laundry net for the mat and wash it separately.
- 3. After washing, do not use a dryer but natural dry.
- 4. Never use the product when wet.
- Recommend to wash with hand or wool course on front loading washing machine.
  - Not to use on top loading or other washing machine.

# How to manage the product /

Please use the product in the correct way after thoroughly understanding how to install and use the product.

# | Precautions for washing

- When washing, be sure to put it in the laundry net and wash it in a drum washing machine wool course or hand wash.
- If you use a laundromat, coin washing machine, or roll-on washing machine, damage to the product may occur. Product warranty will not cover this case.
- Never use the dryer. If damage to the product occurs, product warranty will not cover this case.





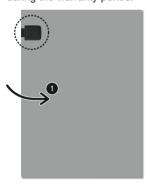








- Roll the connector inside the mat and put the mat in the laundry net to wash.
- If the connector collides with the washing machine or if the washing net is not used, the connector may be damaged.
- Product can be washed 5 times (If you wash more than 5 times, the product may be damaged and you may not be able to use it)
- Make sure to store the controller separately. (Washing prohibited)
- Washing the controller with the mat will cause a malfunction then paid service required even during the warranty period.







# Checklist before service /

Please check the following before contacting the customer service center

# \* If the above-suggested actions do not solve the problem, please contact customer service.

Error code	Reason	Solution:	
EI	Easy connector port connection error and right-sided mat heating wire disconnection	Please check the connection between mat and easy connector. If the error codes keep displayed, please contact customer service.	
E2	Easy connector port connection error and left-sided mat heating wire disconnection	Please check the connection between mat and easy connector. If the error codes keep displayed, please contact customer service.	
E3	If the set temperature is not reached after 8 hours	Please re-connect the power cord.  If the error codes keep displayed, please contact customer service.	
Product is not operated	Checklist		
Product is not operated	Check if there is a power outage.		
	Check if the breaker is down Please turn on the breaker.		
	Check if the power plug connection is normal Insert the power plug correctly.		
	Please make sure the power is on Please turn on the power.		
	Check if the easy connector is damaged Please contact the customer service center.		
	Check if the mat, easy connector, and smart control are properly connected Please connect correctly.		
	Please check if the set time has passed up to 12 hours Please turn on the power.		
	Make sure the temperature is set correctly - Set the temperature high.		
Mat is not warm enough	Check if the temperature is lower than the room temperature Set the temperature according to the surrounding environment.		
	Check to see if heat is lost to the floor Place a blanket between the floor and the mat		
	Check if there are too thick duvets or blankets on the mat Please replace it with a thinner blanket or appropriate thickness.		
	In sleep mode, the temperature setting is 33°C. After canceling the sleep mode, set the temperature higher.		
	It cannot be set over 45 degrees.		

\*If the above-suggested actions do not solve the problem, please contact customer service.

4. Others Customer Service

# **Customer Service /**

This product can be serviced in accordance with the Consumer Damage Compensation Regulations.

If a defect occurs during use, please contact the customer service center

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## Free service information

Within the warranty period (refer to the product warranty), repairs are possible free of charge in case of malfunctions in performance or function caused by manufacturing defects of the product under normal use.

# Paid service information

#### Payment will be required in the following cases.

- 1. If the product warranty period has expired
- 2. Even within the product warranty period, payment will be required in the following cases.
  - In case of consumer intention or negligence in handling, moving, or other defects during transportation
  - Minor defects that do not interfere with use when replacing consumable parts that wear normally during use
  - In case of failure or damage caused by natural disasters (water damage, fire, etc.)
  - If the product is changed or damaged by repairing it at a place other than the manufacturer or the manufacturer's designated repair center
  - In case of service request that is not related to product quality
  - In case of malfunction by using power that does not match the rated voltage
  - In case of failure or fire due to defective outlet
  - In case of failure due to not following the 'Cautions' in the user's manual
  - In the event of a failure due to an external cause rather than a defect in the product itself
- \* In the case of paid service processing, the customer is responsible for the delivery cost for service repair.
- \* In the case of a return due to a simple change of mind, a round-trip shipping fee will be charged. No refunds will be issued after 7 days have elapsed since the product has been opened, installed, or received.

· Customer service 1-888-446-4869