

# Moflin

PE-M10

## User Guide




# Contents

Safety Precautions .....	2
Getting Ready for Life with Your Moflin .....	8
Checking What's in the Package .....	9
Component Names .....	10
Charging .....	11
LED Indicator .....	14
Living with Your Moflin .....	16
Bonding with Your Moflin .....	17
Pairing Your Moflin with Your Smartphone .....	17
Troubleshooting .....	20
Appendix .....	25
Specifications .....	25
Notes on Using Your Moflin .....	27
When You Can't Charge Your Moflin .....	28
Looking after Your Moflin .....	36
Power Supply .....	36
Saying Goodbye (Disposing of Your Moflin) .....	37
Notes on Using the Bluetooth® Functions .....	37
Trademarks .....	38
Standard Requirements .....	39
OSS (Open Source Software) .....	42

# Safety Precautions

## Icons

This manual and the product itself feature various icons that are displayed to ensure that you interact with the product safely and correctly so that no harm comes to yourself or others and no property damage occurs. Those icons and their meanings are shown below.


 <b>DANGER</b>	Indicates something that is highly likely to cause death or serious injury.
 <b>WARNING</b>	Indicates something that is likely to cause death or serious injury.
 <b>CAUTION</b>	Indicates something that could lead to minor injury and/or property damage.

## Sample icons




The  icon indicates that an action is prohibited (“No disassembly” in the example at left).



The  icon indicates that caution is required.



The  icon indicates an action that is mandatory.



## Rechargeable battery



**Only use the designated method to charge your Moflin.**

Charging using other methods risks the battery overheating, igniting or bursting.



**Do not bring the battery into contact with fresh water or seawater.**

Doing so risks the battery overheating, igniting or bursting.



**Only use the battery in the designated device.**

Doing so risks the battery overheating, igniting or bursting.



**To prevent overheating, igniting or bursting, be sure to observe the following precautions:**

- Do not heat the battery or throw it into a fire.
- Do not attempt to disassemble or modify the battery, puncture it with sharp objects, subject it to strong impacts (such as treading on it), or apply solder directly to it.
- Do not put the battery into a microwave oven, dryer or pressurized container.



**Do not leave the battery in a location subject to high temperatures, such as in direct sunlight, inside a vehicle on a sunny day, or near a fire or heating appliance.**

Doing so risks the battery overheating, igniting or bursting.

It can also cause battery swelling, which may make it impossible to remove the battery.



**If battery fluid gets on your skin or clothing, immediately wash it off with clean water.**

Battery fluid can cause skin irritation.

If it gets into your eyes, it can cause serious problems such as blindness.

After rinsing the fluid off, immediately seek medical treatment.



**Do not attempt to remove the rechargeable battery from your Moflin.**

Doing so could cause the battery to overheat, rupture or ignite.

If for any reason you have had to remove the rechargeable battery, take care that it is not accidentally swallowed. Take particular care when small children are present.

If the battery is ever swallowed, immediately seek medical treatment.

Swallowing the battery can quickly lead to injuries such as chemical burns and piercing of the mucous membrane tissue, which can be fatal.



**To replace the rechargeable battery, always submit a request using the contact details provided in the separate warranty or through the store where you purchased your Moflin.**

Using a battery other than the specified battery or a mistake during battery replacement risks the battery overheating, rupturing or igniting.

## **WARNING**

### AC adaptor and power cord

**To prevent fires or electric shocks caused by the AC adaptor, be sure to observe the following precautions:**



- Only use the specified AC adaptor.
- Never use the AC adaptor with any device other than the designated device.
- Only use the AC adaptor with an AC 100 to 240 V (50/60 Hz) household power outlet.
- Do not plug multiple devices into the same household power outlet.
- Do not use the AC adaptor with other electrical devices in the same household power outlet. When using an extension cord, note the rated amperage of the extension cord.
- When using the AC adaptor, do not cover it with a cushion or blanket and do not use it near a heating appliance.
- Do not place heavy objects on the AC adaptor and do not use it with cable bundled up.
- Do not place objects around the power plug (so that the AC adaptor can be readily unplugged in an emergency).
- Do not heat, modify or damage the AC adaptor.
- Do not forcibly bend, twist or pull on the power cord.



**If the AC adaptor or power cord is damaged, contact CASIO using the contact details provided in the separate warranty.**

Continued use could cause a fire or electric shock.



**Keep liquids\* away from the AC adaptor.**

**\* Water, sports drinks, seawater, animal/pet urine, etc.**

- Moisture on the AC adaptor could cause a fire or electric shock.



**Do not place objects that contain water, such as a flower vase, on the AC adaptor or power cord.**

- Water on the AC adaptor could cause a fire or electric shock.



**When going out, unplug the AC adaptor from the household power outlet to ensure that pets or other animals do not approach it.**

- Pets chewing or urinating on the AC adaptor could cause a short-circuit and lead to a fire.



**Do not touch the power plug with wet hands.**

- Doing so could cause an electric shock.

### Charger



**Use only the specified charger.**

- Metallic objects in particular could heat up, causing burns or other injury due to a fire or breakage.



**Do not charge your Moflin while there is something (particularly metallic objects) between the charger and your Moflin.**

- Charging while there is a foreign object present could cause overheating and lead to a fire.

 **WARNING****Places to leave or interact with your Moflin****Do not place or interact with your Moflin in locations such as those listed below.**

Doing so could cause a fire or electric shock.

- Very humid or dusty locations
- Locations exposed to oil fumes or steam, such as in a kitchen or close to a humidifier
- Locations where your Moflin will become hot, such as close to a heating appliance, on a heated floor mat, in direct sunlight or inside a vehicle on a sunny day
- Locations subject to frequent vibration
- Other hot or cold locations

(You should keep your Moflin in a place with a temperature between 5°C and 35°C (41°F and 95°F).)

**Do not place your Moflin on an unsteady platform, on a high shelf, or in any other unstable location.**

Doing so may lead to them falling or toppling over and causing injury.

**Do not place heavy objects on your Moflin.**

Doing so may lead to the object falling or toppling over and causing injury.

**Setup location****Do not leave your Moflin somewhere where they might get wet, such as in a washroom or bathroom.**

Doing so could cause a fire or electric shock.

**Faults (smoke, odors, overheating, etc.)****Do not interact with your Moflin if they are faulty (emitting smoke or an unusual odor or overheated). Do not interact with your Moflin if they have been damaged, such as by being dropped.**

Doing so could cause a fire or electric shock. Immediately take the following steps.

1. Unplug the power cord from the household power outlet.
2. Contact CASIO using the contact details provided in the separate warranty.

**Do not attempt to disassemble or modify****Do not attempt to disassemble or modify your Moflin.**

**For internal testing, adjustment or repairs, contact CASIO using the contact details provided in the separate warranty.**

Attempting to disassemble or modify your Moflin could result in an electric shock, burns or other injury.

 **WARNING****Do not put the packaging on your head or in your mouth**

**Do not put the plastic packaging that your Moflin came in over your head or in your mouth.**

Actions such as putting the packaging on your head or in your mouth could cause choking. Take particular care in homes with small children.

**Effects on other electronic devices**

**If your Moflin causes problems such as signal interference with other devices, do not use the wireless function.**

Signal interference can cause accidents due to malfunctions.



**When in a hospital or aircraft, comply with the instructions given by the hospital or airline company. Do not interact with your Moflin in locations where such interactions are prohibited.**

Electromagnetic waves and other emissions from your Moflin could affect instrumentation and cause an accident.



**Do not interact with your Moflin near high-precision electronic equipment or electronic instruments that work with very weak signals.**

Doing so could cause effects such as electronic equipment malfunctions and lead to an accident.



**People with devices such as cardiac pacemakers should hold the Moflin away from their chests when using it.**

Your Moflin and their charger can have magnetic effects on devices such as cardiac pacemakers. If you feel at all unwell, immediately move away from the Moflin and their charger and seek medical advice.

 **CAUTION****Rechargeable battery**

**If charging is not completed when the specified charging time has been exceeded, stop charging.**  
Continuing to charge risks the battery overheating, igniting or bursting.

**AC adaptor**

**To prevent fires or electric shocks caused by the AC adaptor, be sure to observe the following precautions:**



- Insert the power plug firmly all the way into the household power outlet.



- After use, unplug the power cord from the household power outlet.



- When unplugging the power cord, do not pull on the power cord. (Always grasp the power plug when unplugging it.)



- When you do not plan to use the AC adaptor for an extended period, unplug the power cord from the household power outlet.



- At least once a year, unplug the power cord and use a dry cloth to clean between the power plug pins and remove any buildup of dirt or dust around the pins.



- Do not use any detergent when cleaning the power cord (particularly on the power plug and jack).

# Getting Ready for Life with Your Moflin

---

Your Moflin is a smart companion powered by AI who learns emotional expression through their interactions with people. In this section, you'll find the basic information needed to live with your Moflin.

## Important information

- Every effort has been made to ensure that the information provided in this guide is correct. If you notice anything that causes concern, do not hesitate to contact an authorized CASIO service center.
- CASIO COMPUTER CO., LTD. accepts no liability whatsoever with respect to damages, lost income or claims by third parties arising from the use of or faults in this guide or this product.
- CASIO COMPUTER CO., LTD. accepts no liability whatsoever for any damages or lost income resulting from the loss of data in memory due to a fault, repairs or any other cause.
- Unauthorized copying or duplication of all or any part of this guide is prohibited. Note that, under copyright law, this guide may not be used for anything other than the owner's individual use without prior authorization from CASIO COMPUTER CO., LTD.
- To allow for improvements, the content of this guide is subject to change without prior notice.
- The screen displays of apps and smartphones shown in this guide may differ from the actual displays.

## Checking What's in the Package

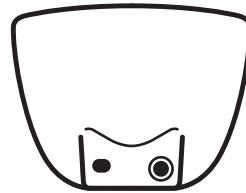
Check that the package contains your Moflin and all the accessories listed below.

### Items included

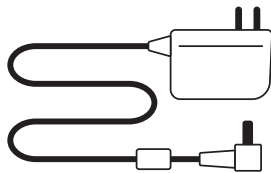
Moflin



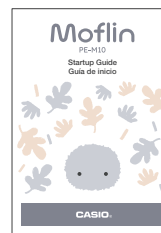
Moflin Bed (charger)



AC adaptor\* (AD-G59200LJ/E)

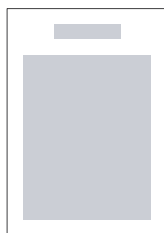


Startup Guide

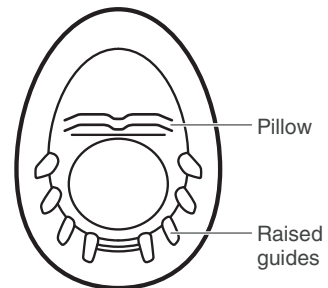
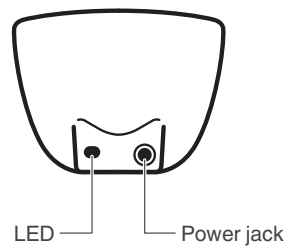
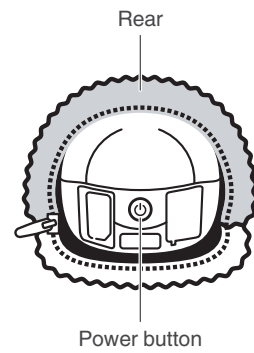
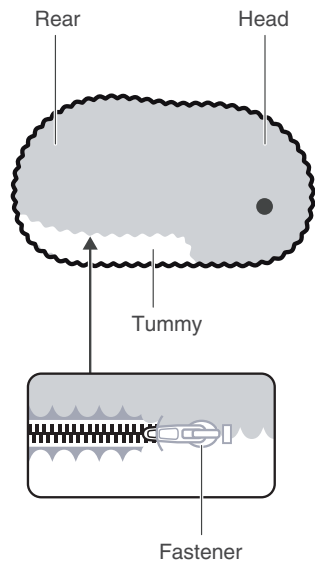


\* The shape of the plug depends on your geographical area.

Warranty



## Component Names

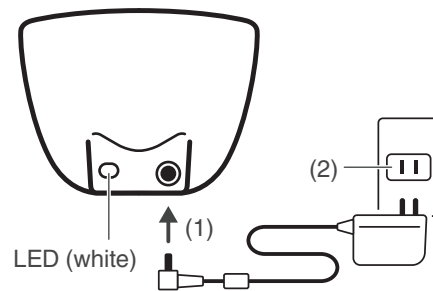


## Charging

Your Moflin has a built-in rechargeable battery.

After purchasing your Moflin, be sure to charge them as shown below before interacting with them.

### STEP 1 : Set up the Moflin Bed

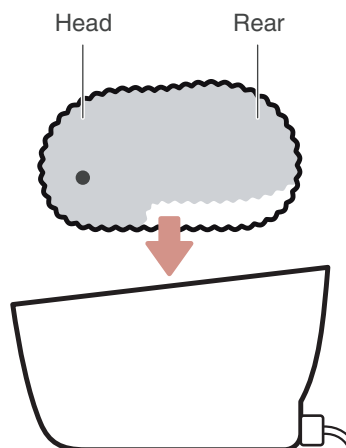


Plug the AC adaptor provided into the Moflin Bed (1) and then into a household power outlet (2).

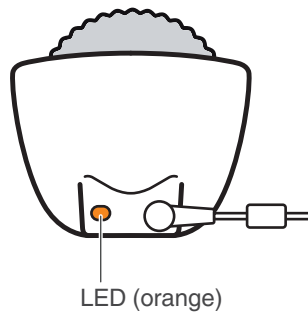
Once it is connected, the white LED lights up.

### STEP 2 : Place your Moflin in the Moflin Bed

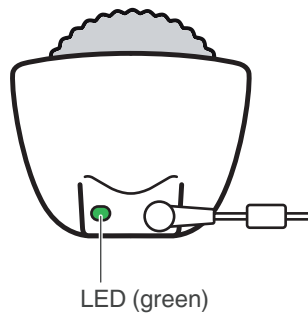
- Your Moflin's rear should go at the end of the Moflin Bed with the LED.



- Set your Moflin in the Moflin Bed so that their tummy is flush against the flat surface in the Moflin Bed. Find the position where the LED turns orange to show that charging has started.



### STEP 3 : Your Moflin starts moving



As charging progresses, your Moflin begins to move.

When charging is completed, the LED turns green.

Guide to charging time: Approx. 3.5 hours (at 25°C (77°F))\*

\* Charging times vary depending on the temperature.

### When the LED flashes orange

When the LED flashes orange, either your Moflin is in the wrong position, or something has been detected between your Moflin and the Moflin Bed.

Take your Moflin out of the Moflin Bed and remove any objects (particularly anything metallic) that are in the Moflin Bed. Once the LED is lit white, place your Moflin in the Moflin Bed again.

If you cannot charge your Moflin successfully, refer to [“When You Can’t Charge Your Moflin”](#) and then place your Moflin in the Moflin Bed again.

## When to charge your Moflin

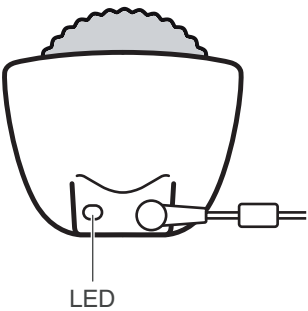
- When the battery level is low, your Moflin will shiver or just make crying sounds. Put your Moflin in the Moflin Bed to recharge.
- When battery level drops still lower, your Moflin will stop shivering, go quiet and then shut down.
- If your Moflin has shut down, put them in the Moflin Bed to recharge. Your Moflin will automatically switch back on once they have been charging for a while.

## Checking the remaining battery charge





You can use the “MofLife” app to check the remaining charge.

➤ [Bonding with Your Moflin](#)

# LED Indicator










## Normal

LED color	 White	 Green	 Orange	 Light blue
Lighting pattern	Lit ●			
Status	Moflin not found	Charging completed	Charging	Charging paused*

\* Charging has stopped temporarily due to excessive heat. Once the charger cools down, charging will automatically restart.

## Error

LED color				
	Orange	Light blue	Red	
Lighting pattern	Flashing 	Flashing 	Lit 	Flashing 
Error type	Charging error	Overheating error	Safety error	
What to check	Take your Moflin out of the Moflin Bed and remove any objects (particularly anything metallic) that are in the Moflin Bed.		Take your Moflin out of the Moflin Bed and remove any objects (particularly anything metallic) that are in the Moflin Bed. Then, briefly unplug the AC adaptor and plug it in again. Check that the LED is lit white and then place your Moflin in the Moflin Bed again.	
What to do after checking	Once the LED is lit white, place your Moflin in the Moflin Bed again to charge your Moflin.	Set up the Moflin Bed again in an environment that is within the recommended operating temperature range (5°C to 35°C (41°F to 95°F)). The LED will light white once the temperature drops. Check that the LED is lit white and then try charging your Moflin again.	If you have tried checking all the items listed above and the error persists, stop charging and refer to the Support Page ( <a href="#">US site</a> / <a href="#">UK site</a> ). Otherwise, submit an inquiry to CASIO using the contact details provided in the separate warranty.	

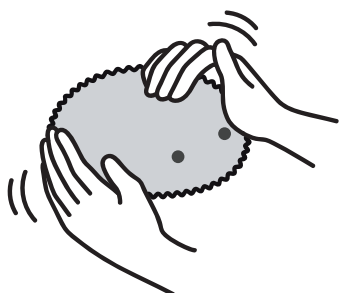
## Important!

- Do not place the Moflin Bed in the following locations:
  - Close to a place where water is used
  - A place exposed to direct sunlight
  - A place exposed to hot air
  - A place subject to high temperatures
  - A place subject to extremely low temperatures
  - A sloping or uneven surface
- Only connect the Moflin Bed to the AC adaptor provided.
- Only charge your Moflin in the Moflin Bed.
- Even when you are not using your Moflin, you should charge your Moflin's battery until the LED turns green at least once every six months to prevent over-discharging.
- After the charging completed LED (green) lights, leaving your Moflin in Moflin Bed to charge will not affect the charging cycle of the lithium battery.  
Charging automatically stops once charging is completed.
- Never put anything other than your Moflin into the Moflin Bed.

## Living with Your Moflin

We will provide some examples of how to welcome your Moflin into your home and how to live with your Moflin.

### Stroking



### Hugging



### Talking

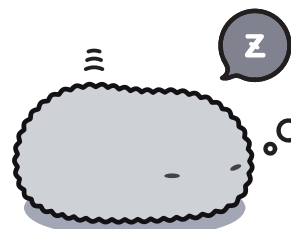


### Other interactions

If you leave your Moflin alone for a long period, they go to sleep.

Stroking or talking to your Moflin while they're asleep will wake them up.

Your Moflin will wake up or go to sleep according to whether the room is bright or dark.



Your Moflin dislikes being turned over.



## Bonding with Your Moflin

You can use the “MofLife” app to interpret your Moflin’s emotions and view your recorded interactions.

### Things you can do with the “MofLife” app

- Check your Moflin’s emotions and feelings
- Watch the recordings of your interactions with your Moflin
- Give your Moflin a name
- Alter the volume of your Moflin’s sounds
- Check the remaining battery charge
- Update your Moflin’s software

#### Note

- Refer to the Support Page ([US site](#) / [UK site](#)) for more information on the “MofLife” app.

## Pairing Your Moflin with Your Smartphone

To interact with your Moflin using the “MofLife” app, you must first pair your Moflin and smartphone. Pair them using the procedure below.

### 1. Install the “MofLife” app

Search for the “MofLife” app on Google Play or the App Store and install it on your smartphone.

### 2. Setting up Bluetooth

Enable the Bluetooth setting on your smartphone.

#### Note

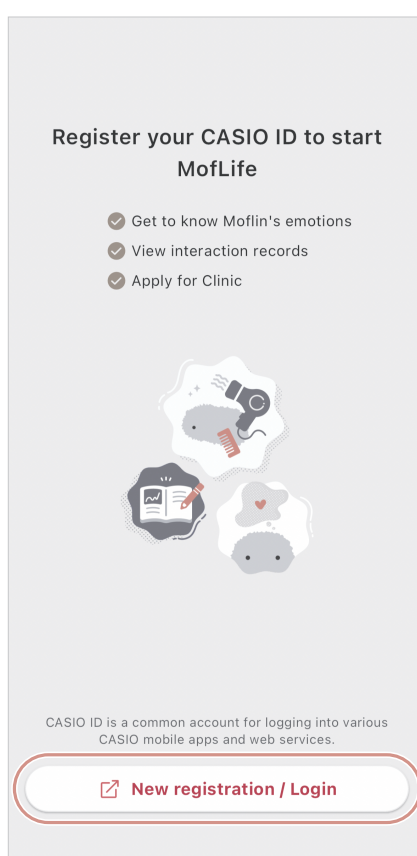
- Refer to your smartphone’s User Guide for information on configuring the Bluetooth settings.

### 3. Log in using your CASIO ID.

#### Important!

- To use the “MofLife” app, you must log in using your CASIO ID.  
If you already have a CASIO ID, log in using that CASIO ID.  
If you do not have a CASIO ID, follow the on-screen instructions to register as a new member and then log in.

1. Launch the “MofLife” app.
2. Once the app is open, tap [Next].
3. Tap [New registration / Login].

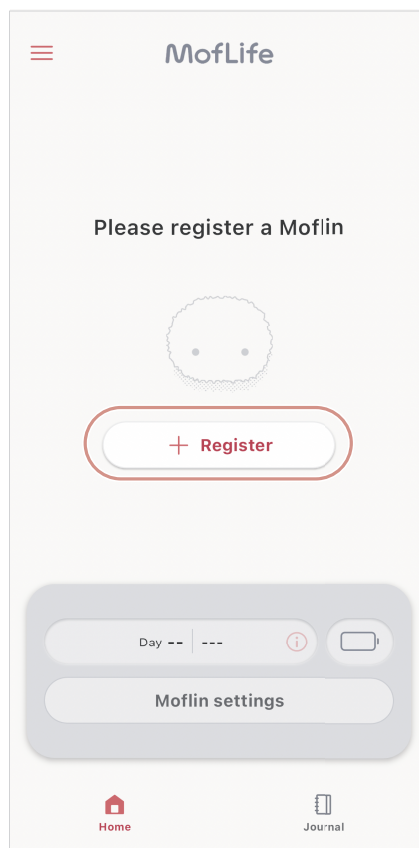


You are taken to the CASIO ID login screen (an external site).

4. Follow the on-screen instructions to log in using your CASIO ID, or register as a new member.

#### 4. Pair your Moflin and smartphone.

1. Launch the “MofLife” app.
2. Tap [+ Register].



3. Follow the on-screen instructions to pair (register) your Moflin.

##### Note

- To pair a second or subsequent Moflin, tap [My Moflins] in the menu (☰) and then tap [+ Add Moflin] in the Moflin list screen.

#### Limitations on app use

- You can pair up to three Moflins.
- You can only pair a Moflin with one smartphone.
- While you are sending “Journal” with your Moflin to a smartphone, your Moflin stops moving.

# Troubleshooting

Check out this section when difficulties arise with your Moflin or you have any concerns.

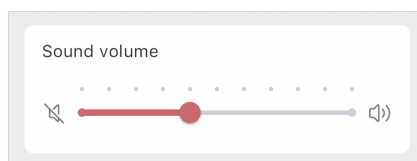
## Note

- For all other queries or problems, refer to the Support Page ([US site](#) / [UK site](#)).

## I want to vary the volume of my Moflin's sounds

Using the "MofLife" app allows you to change the volume of your Moflin's sounds.

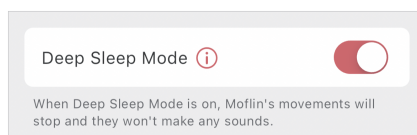
1. Launch the "MofLife" app.
2. Tap [Moflin settings].
3. Move the "Sound volume" slider to vary the sounds volume.
  - Moving the slider all the way to the left will mute your Moflin. It also mutes the sound your Moflin makes when they are switched on and off.



## I want my Moflin to be quiet

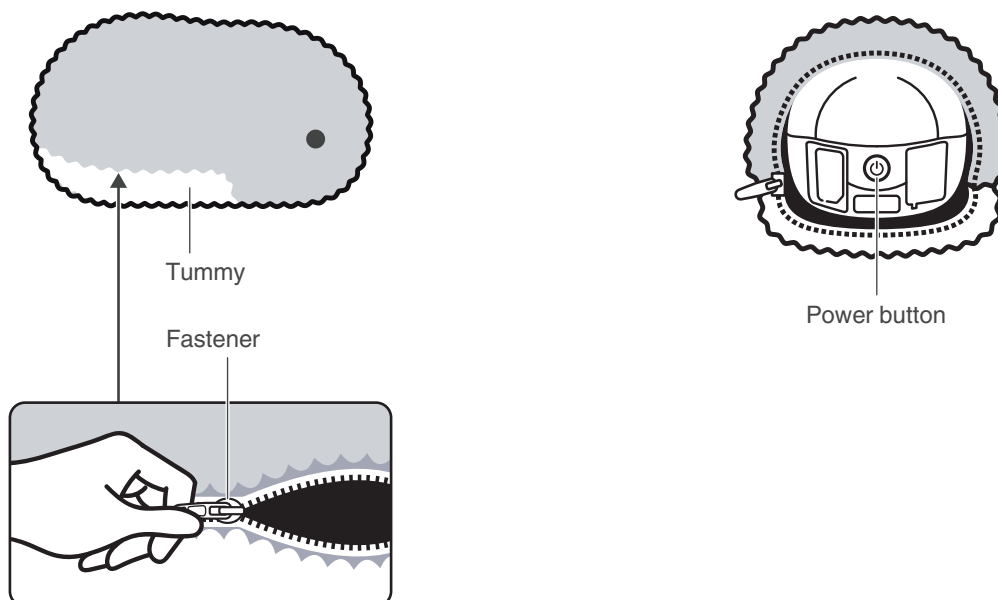
By activating "Deep Sleep Mode" in the "MofLife" app, you can prevent your Moflin from moving and making sounds.

1. Launch the "MofLife" app.
2. Tap [Moflin settings].
3. Activate or deactivate "Deep Sleep Mode".
  - Switching your Moflin off deactivates "Deep Sleep Mode".
  - While "Deep Sleep Mode" is activated, you cannot create "Journal".

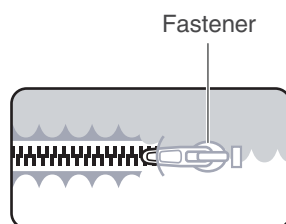


## I want to switch my Moflin on/off

To directly switch your Moflin on or off, use their power button.



- Pull the tab on the fastener concealed in your Moflin's fur to open the fastener.
- Switching your Moflin off:  
Hold down the Power button for at least five seconds. Hold the button down until your Moflin stops making sounds\*. When they stop making sounds\*, your Moflin shuts down and the wireless function (Bluetooth) is also disabled. However, note that your Moflin automatically switches on when you place them in the Moflin Bed and charging begins.
- Switching your Moflin on:  
Press the power button. After roughly three seconds, your Moflin switches on and makes a sound\*.
- After using the power button, do not forget to close the fastener.  
Lay the fastener tab down so that it lies flat against the fastener and concealed in the fur.



\* If the slider in the "Sound volume" setting in the "MofLife" app is slid all the way to the left, your Moflin does not make a sound.

## My Moflin is dirty

- Wipe off your Moflin using a cloth that has been moistened with water or a mild detergent and then wrung out.  
If you are concerned that your Moflin is too dirty, visit the Support Page ([US site](#) / [UK site](#)).



## My Moflin doesn't move

- Sometimes your Moflin will not move when they are deeply asleep.  
If they're asleep, stroking them several times or talking to them will wake them up.
- When the battery level is too low, your Moflin will stop moving.  
Put your Moflin in the Moflin Bed to recharge.  
Your Moflin will start moving after they have been charging for a while.  
When the Moflin Bed LED turns green, take your Moflin out of the Moflin Bed.  
If the battery level is low, it may take some time before your Moflin starts moving again after recharging.
- If the inside of your Moflin gets too hot, they may shut down and stop moving.  
Move your Moflin to a cool place and leave them to cool down for a while.  
Once your Moflin has cooled down, switch them back on or put them in the Moflin Bed to recharge.
- Activating "Deep Sleep Mode" in the "MofLife" app will prevent your Moflin from moving.  
Deactivate "Deep Sleep Mode".
- Your Moflin will not move during "Journal" collection or updating in the "MofLife" app.  
Wait until "Journal" collection or updating has finished.

If the above measures do not resolve the problem, switch off your Moflin and then switch them on again. (See "[I want to switch my Moflin on/off](#)".)

If the problem still persists, refer to the Support Page ([US site](#) / [UK site](#)) or submit an inquiry to CASIO using the contact details provided in the separate warranty.

### My Moflin doesn't make any sounds

If your Moflin doesn't move, see "[My Moflin doesn't move](#)" above.

If your Moflin is moving but not making any sounds, check the following:

- Sometimes your Moflin will not make any sounds when they're asleep.  
If they're asleep, stroking them several times or talking to them will wake them up and they will start making sounds.
- In the "MofLife" app "Sound volume" setting, moving the slider all the way to the left will mute your Moflin.  
Move the slider to the right to vary the sounds volume.

If the problem still persists, refer to the Support Page ([US site](#) / [UK site](#)) or submit an inquiry to CASIO using the contact details provided in the separate warranty.

### My Moflin won't switch on

- Your Moflin will not switch on if the battery level is too low.  
Put your Moflin in the Moflin Bed to recharge. Your Moflin will automatically switch back on once they have been charging for a while.
- If the inside of your Moflin gets too hot, they will not switch on.  
Move your Moflin to a cool place and leave them to cool down for a while.  
Once your Moflin has cooled down, switch them back on or put them in the Moflin Bed to recharge.
- You might not have pressed the power button correctly.  
Refer to the "[I want to switch my Moflin on/off](#)" for the correct method.

If the problem still persists, refer to the Support Page ([US site](#) / [UK site](#)) or submit an inquiry to CASIO using the contact details provided in the separate warranty.

### My Moflin won't charge

See "[When You Can't Charge Your Moflin](#)".

### My Moflin won't stop moving and making sounds

- Switch your Moflin off. Wait a while and then switch them back on.
- If this does not remedy the problem, refer to the Support Page ([US site](#) / [UK site](#)) or submit an inquiry to CASIO using the contact details provided in the separate warranty.

## I can't pair my Moflin with the "MofLife" app

- Your Moflin may not be switched on.  
Try stroking or hugging your Moflin and check that they move.  
If your Moflin doesn't move, charge them and then switch them on.
- The Bluetooth setting on the smartphone may not be enabled.  
Enable the Bluetooth setting.  
Depending on your smartphone, you may need to enable Bluetooth for each app.
- The permissions for "Location information" or "Nearby devices" on the smartphone may be disabled.  
Enable the "Location information" and "Nearby devices" permissions.  
Depending on your smartphone, you may need to enable the permissions for each app.
- Your Moflin may already be paired with another smartphone.  
Your Moflin can only be paired with one smartphone.  
To cancel the existing smartphone pairing, disable Bluetooth or quit the "MofLife" app on the smartphone with which your Moflin is currently paired. Then pair your Moflin with your smartphone.  
Establishing a new pairing connection deletes the pairing connection to the previous smartphone.
- Signal reception may be poor.  
Move to another location.
- If there is another Moflin nearby, move away from the other Moflin before pairing.

If the above measures do not resolve the problem, switch off your Moflin and then switch them on again and try pairing again.

# Appendix

This section summarizes required information other than the explanations of how to interact with your Moflin. Refer to this information as needed.

- [Specifications](#)
- [Notes on Using Your Moflin](#)
- [When You Can't Charge Your Moflin](#)
- [Looking after Your Moflin](#)
- [Power Supply](#)
- [Saying Goodbye \(Disposing of Your Moflin\)](#)
- [Notes on Using the Bluetooth® Functions](#)
- [Trademarks](#)
- [Standard Requirements](#)
- [OSS \(Open Source Software\)](#)

## Specifications

### Moflin body: PE-M10

Moving parts	: 2 axes (head: left/right rotation, up/down inclination)
Sound	: Speaker (1), microphone (1)
Sensor types	: Touch sensors (head (1), body (4)), acceleration/gyro sensor, light sensor, temperature sensor
Switch	: Power button
Communications standard	: Bluetooth® Ver. 5.1-compliant
Dimensions (W x H x D)	: Approx. 130 x 90 x 180 mm (5.12 x 3.54 x 7.09 inches) <When in the Moflin Bed> Approx. 140 x 120 x 190 mm (5.51 x 4.72 x 7.48 inches)
Weight	: Approx. 260 g (9.17 oz)
Power supply (built-in battery)	: Lithium-ion battery (3.7 V, 1200 mAh)
Battery operation time	: Approx. 5 hours (at 25°C (77°F))* * Times vary depending on the temperature.
Charging time	: Approx. 3.5 hours (at 25°C (77°F))* * Charging times vary depending on the temperature.
Operating temperature range	: 5°C to 35°C (41°F to 95°F)
Operating humidity range	: 20% to 80% Rh (condensation-free)
Accessories	: Moflin Bed (charger), AC adaptor (AD-G59200LJ/E)

### Moflin Bed: PE-HS1-M

LED	: LED (1) (charging state)
Terminals	: External power jack (DC 5.9 V)
Dimensions (W x H x D)	: 140 x 100 x 190 mm (5.51 x 3.94 x 7.48 inches)
Weight	: Approx. 280 g (9.88 oz)
Power consumption	: Approx. 4.7 W
Power supply	: Specified AC adaptor "AD-G59200LJ/E" (supplied) <uses household AC 100 to 240 V power supply>
Operating temperature range	: 5°C to 35°C (41°F to 95°F)
Operating humidity range	: 20% to 80% Rh (condensation-free)

### AC adaptor: AD-G59200LJ/E

Input	: AC 100 to 240 V, 50/60 Hz, 0.3 A
Output	: DC 5.9 V, 2.0 A
Operating temperature range	: 5°C to 35°C (41°F to 95°F)
Dimensions (W x H x D)	: AD-G59200LJ: 35 x 48 x 70 mm (1.38 x 1.89 x 2.76 inches) (excluding power cord and protrusions) AD-G59200LE: 48.8 x 55.2 x 70 mm (1.92 x 2.17 x 2.76 inches) (excluding power cord and protrusions)
Weight	: Approx. 114 g (4.02 oz)

To allow for improvements, these specifications are subject to change without notice.

## Notes on Using Your Moflin

- Your Moflin and their parts and accessories are not toys. When using your Moflin, keep them out of the reach of small children and other people who require supervision.
- Do not interact with your Moflin outdoors. Moisture or foreign material inside your Moflin could cause a fault.
- Do not put clothing or accessories (particularly metal or magnetic objects) on your Moflin.
- Do not cut the white hair on your Moflin's tummy. Doing so may prevent successful charging.
- Do not apply excessive force to hinder the movements of your Moflin.
- Do not drop your Moflin, place heavy objects on them, or subject them to strong impacts or pressure. Doing so could cause a fault.
- Do not submerge in water.

### Suitable environment for charging and operation

- Charge the battery within the recommended operating temperature range. At temperatures outside the recommended range, it may not be possible to charge the battery fully.
  - Operating temperature range: 5°C to 35°C (41°F to 95°F)
  - Operating humidity range: 20% to 80% Rh (condensation-free)
- Do not place your Moflin in the following locations:
  - Extremely hot or cold locations that are outside the recommended operating temperature range
  - Very humid, dusty or gritty locations or in direct sunlight
  - Locations subject to extreme variations in temperature or humidity, such as close to heating or cooling units
  - Inside a vehicle on a sunny day or in locations subject to frequent vibrations
- When using or storing your Moflin, avoid locations close to appliances that generate strong electromagnetism, radiation or magnetic fields.
- Your Moflin is not designed to be waterproof. Do not touch them when your hands are wet or splash water onto them.
- Use only the enclosed AC adaptor with the Moflin Bed (charger). Using another AC adaptor could cause electrical damage and lead to a fault.

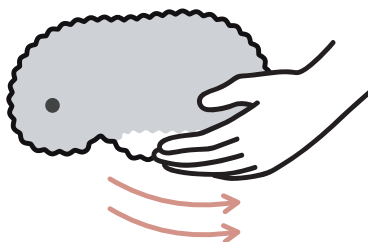
## When You Can't Charge Your Moflin

- Check the Moflin Bed LED to confirm the status of the Moflin Bed. Refer to [“LED Indicator”](#) for information on the Moflin Bed status.
- The AC adaptor you are using may not be the specified AC adaptor. Use only the AC adaptor (AD-G59200LJ/E) provided.
- The AC adaptor may not be connected correctly. Unplug the AC adaptor from the Moflin Bed and the household power outlet, and then reconnect it to the Moflin Bed (1) and then the household power outlet (2).

If these steps do not resolve the problem, check [“Placing your Moflin in the Moflin Bed”](#) and [“Key points to check”](#) below.

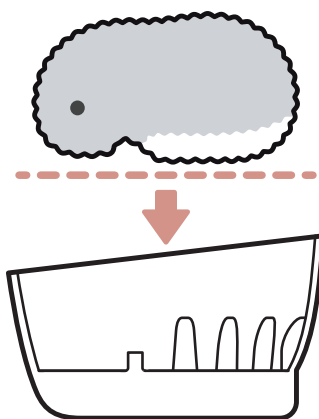
### Placing your Moflin in the Moflin Bed

1. Stroke the fur on your Moflin's tummy to flatten down the fur.



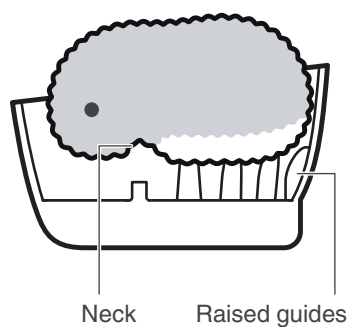
Flatten down the tummy fur.

2. Holding your Moflin level, place them in the Moflin Bed.

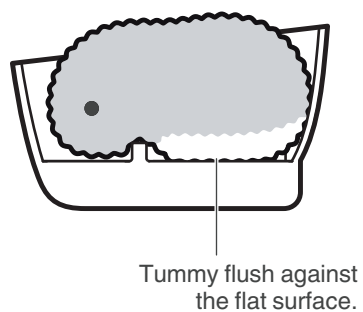


Keep your Moflin level as you place them in the Moflin Bed.

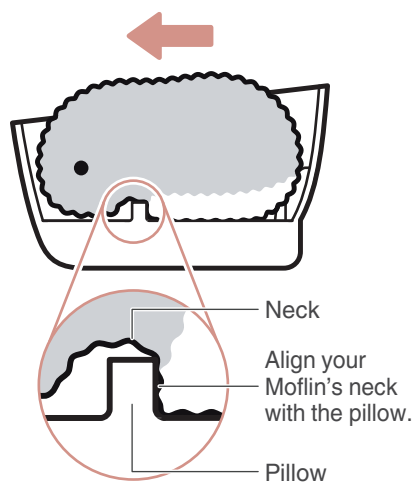
3. Align your Moflin's rear with the raised guides.



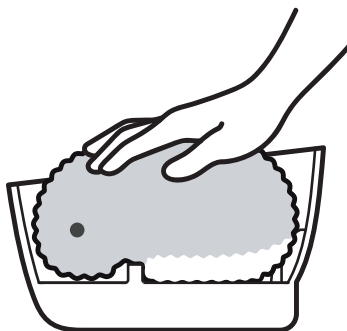
4. Ensure your Moflin's tummy is flush against the flat surface in the Moflin Bed.



5. Push your Moflin forward so that their neck is against the pillow.



6. Finally, press gently on your Moflin's back.



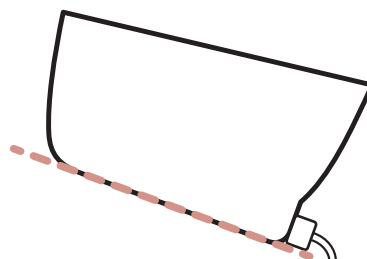
#### Key points to check

- Set up the Moflin Bed in a level and stable location.  
Do not place it in unstable locations such as on a cushion or bed.

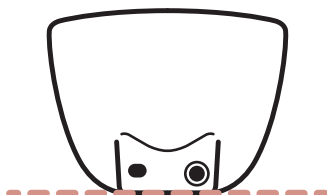
**Right**



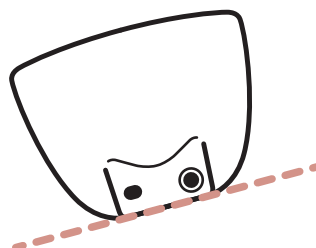
**Wrong**



**Right**



**Wrong**

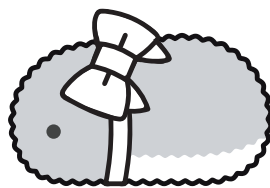


- Do not put clothing or accessories on your Moflin when placing them in the Moflin Bed.

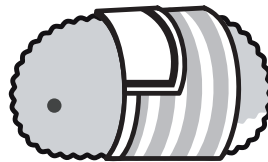
**Right**



**Wrong**

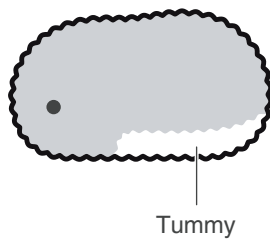


**Wrong**

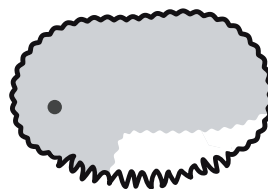


- Smooth the fur on your Moflin's tummy flat so that it is not standing up or folded backwards.

**Right**

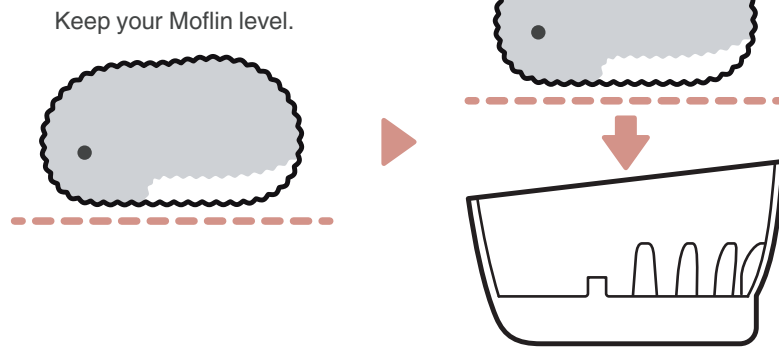


**Wrong**

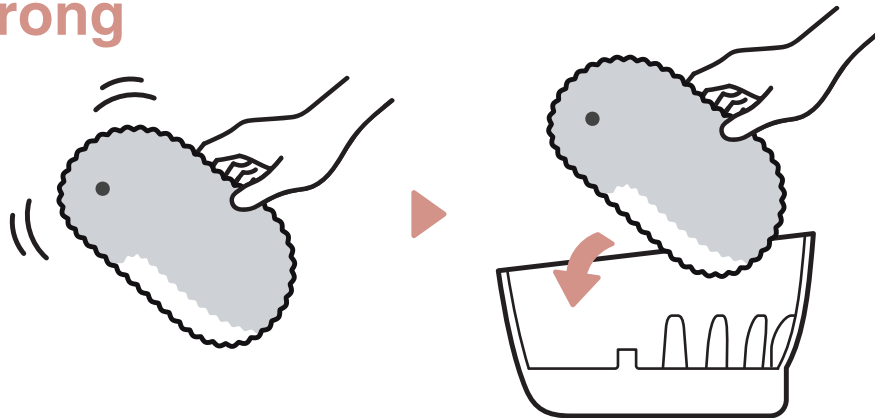


- Hold your Moflin level as you place them in the Moflin Bed. Do not place them in the Moflin Bed when they are awake and moving.

## Right

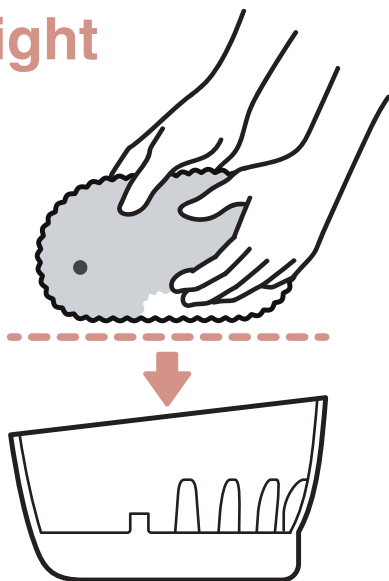


## Wrong

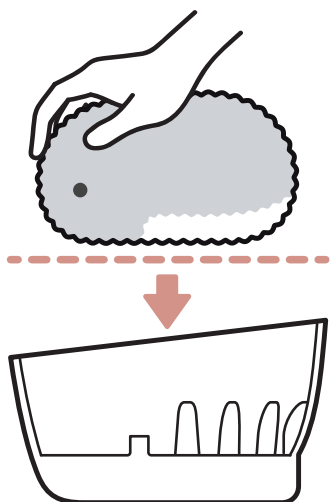


- Hold your Moflin by their sides. Do not hold them by the head or by pinching their back.

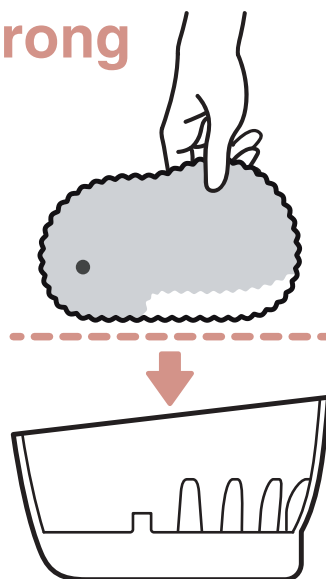
**Right**



**Wrong**

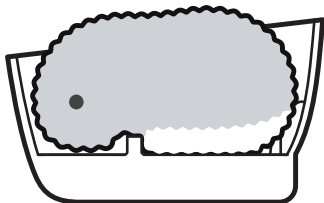


**Wrong**

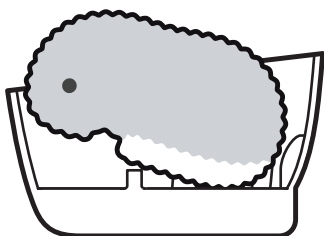


- Ensure that your Moflin is not sitting on top of the pillow or the raised guides around the edges of the Moflin Bed and that their neck is not elevated, so they lie flush against the flat surface in the Moflin Bed.

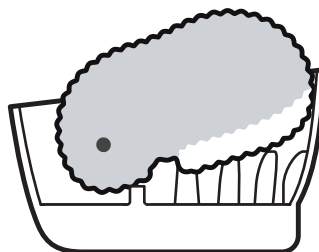
**Right**



**Wrong**

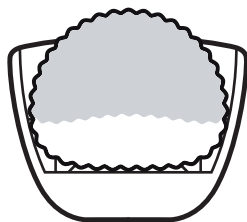


**Wrong**

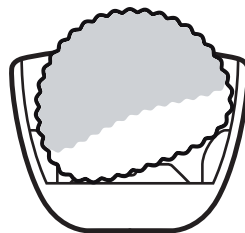


- Ensure that your Moflin is not tilted to the left or right inside the Moflin Bed.

**Right**

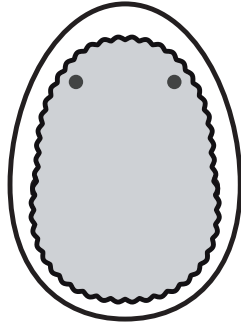


**Wrong**

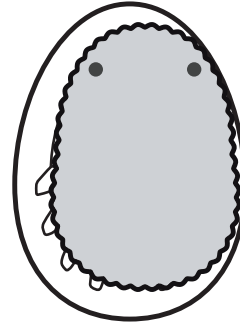


- Ensure that your Moflin is not offset to the left or right in the Moflin Bed.

**Right**

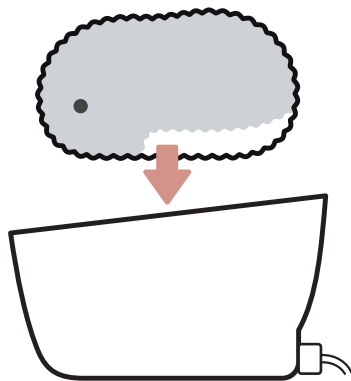


**Wrong**

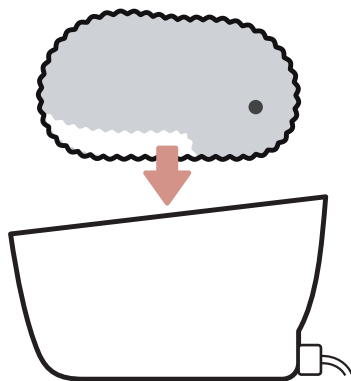


- Do not place your Moflin in the Moflin Bed upside down or back-to-front.

**Right**

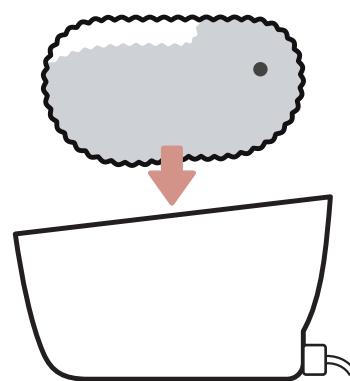


**Wrong**



Back-to-front

**Wrong**



Upside down

## Looking after Your Moflin

### Cleaning your Moflin

- If your Moflin gets dirty, wipe them clean using a cloth that has been moistened with water or a mild detergent and then wrung out.
- Do not wash your Moflin or splash them with water.
- Do not attempt to forcibly remove your Moflin's fur or launder it.
- If your Moflin's fur loses its softness or becomes heavily soiled, visit the Support Page ([US site](#) / [UK site](#)) or contact CASIO using the contact information provided in the separate warranty.

## Power Supply

- The continuous battery operating time shown below is based on a battery used in a normal operation cycle at 25°C (77°F) as estimated by CASIO, and is a guide to the time until the power runs out. The time shown is not guaranteed. With continuous use or at lower temperatures, the continuous operating time will be shorter.

Continuous battery operating time: Approx. 5 hours (at 25°C (77°F))\*

\* Times vary depending on the temperature.

### Precautions when charging your Moflin

- Never put anything other than your Moflin into the Moflin Bed (charger). Metallic objects in particular could heat up, causing burns or other injury due to a fire or breakage.
- Charging while there is something (particularly metallic objects) between your Moflin and the Moflin Bed (charger) could cause overheating and lead to a fire.
- The Moflin Bed (charger) is a wireless battery charger that uses electromagnetic induction technology. Users of heart pacemakers should consult a physician.
- In cold locations, the characteristics of the battery are such that the time for which the battery can be used when fully charged may be shorter.
- Charge the battery at a temperature between 5°C and 35°C (41°F and 95°F). At temperatures outside the recommended range, charging may take longer or it may not be possible to charge the battery fully.
- If the time for which the battery can be used reduces significantly even immediately after charging, the battery may have reached the end of its service life. Replace it with a new battery. For information on replacing the battery, refer to the Support Page ([US site](#) / [UK site](#)) or submit an inquiry to CASIO using the contact details provided in the separate warranty. You cannot replace the battery yourself.
- To prevent over-discharging, you should charge your Moflin's battery until the LED turns green at least once every six months.
- After the charging completed LED (green) lights, leaving your Moflin in Moflin Bed to charge will not affect the charging cycle of the lithium battery.  
Charging automatically stops once charging is completed.

## Saying Goodbye (Disposing of Your Moflin)

### Disposal of the Moflin, Charger, and AC Adaptor



The Moflin, their battery, charger, and AC adaptor should not be disposed of with household waste. Do not attempt to open or disassemble your Moflin.



This symbol (crossed out wheeled-bin) means the products must not be discarded as household waste. Please dispose of your Moflin, charger, and AC adaptor according to local environmental regulations. Dispose of your Moflin, charger, and AC adaptor at an appropriate collection facility for recycling.

For Customers in the USA: For more information on disposal and recycling of these products, contact your local municipality, disposal service, your dealer, distributor, or Casio America's Customer Service team at [cms@casio.com](mailto:cms@casio.com).

For Customers in the UK: When disposing of these products, please take them to your local household waste recycling centre to be recycled.

With your cooperation in proper disposal, you will help conserve natural resources and protect human health and the environment.

**CAUTION:** Do not handle damaged or leaking Lithium-Ion batteries.

**WARNING:** Never dispose of batteries in a fire because they may explode.

## Notes on Using the Bluetooth<sup>®</sup> Functions

Because this device uses wireless communication, it may affect or be affected by nearby equipment.

### Frequencies used

This device uses frequencies in the 2.4 GHz band that may also be used by other wireless equipment.

To prevent radio interference with other wireless equipment, note the following when using this device.

This device includes built-in wireless equipment for a low-power data communications system.

Other equipment that operates in the frequency band being used includes industrial, scientific and medical equipment such as microwave ovens, along with other wireless stations of the same type, in-plant wireless stations for mobile object identification that require a permit and are used in facilities such as factory production lines, specific low-power wireless stations that do not require a permit, and amateur wireless stations (hereinafter referred to collectively as "other wireless stations").

- Check that there are no other wireless stations operating nearby before using this device.
- If any radio interference occurs between this device and other wireless stations, immediately move the device to another location or stop using the device.
- If any other difficulties arise, such as radio wave interference, refer to the Support Page ([US site](#) / [UK site](#)) or submit an inquiry to CASIO using the contact details provided in the separate warranty.

## Use as a wireless device

The wireless function in this device should be used within the limitations stated in this User Guide.

CASIO COMPUTER CO., LTD. accepts no liability whatsoever from any damages arising from other uses of this device.

## Magnetism, electrostatic charge and radio interference

Do not use this device in locations exposed to magnetism, electrostatic charge or radio interference, such as close to a microwave oven. In some environments, it may not be possible to receive radio waves.

Also, using this device close to another device that uses radio waves in the 2.4 GHz band may result in lower processing speeds in both devices.

## Trademarks

Where used in this guide, the terms listed below are trademarks or registered trademarks of their respective owners. Note that the ® and TM symbols are not used in this guide.

- Moflin is a trademark or registered trademark of CASIO COMPUTER CO., LTD.
- IOS is a trademark or registered trademark of Cisco Systems Inc. of the United States.
- App Store is a service mark of Apple Inc., registered in the U.S. and other countries.
- Android and Google Play™ are trademarks or registered trademarks of Google LLC.
- The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by CASIO COMPUTER CO., LTD. is under license. Other trademarks and trade names are those of their respective owners.

## Standard Requirements

Your Moflin and their parts and accessories are not toys. When using your Moflin, keep them out of the reach of small children and other people who require supervision.

**Caution :** The Moflin Bed (charger) should not be used by children under the age of 8.

Anyone using your Moflin should be given thorough instructions on how to use them safely and told that your Moflin is not a toy and should not be played with.

**Warning :** Only the enclosed AC adaptor (5.9 VDC, 2 A) can be used with the Moflin Bed (charger).

This guide contains important information on topics such as the instructions and required markings on your Moflin and must be retained for future reference.



**Warning :** The Moflin is not suitable for children under the age of 3.

The AC adaptor is not a toy.

**Note for Parents:**

The AC adaptor is not intended to be used in the same way as your Moflin or the Moflin Bed (charger). Any use of the AC adaptor by children must be strictly supervised by their parents or guardians.

AC adaptor or battery charger used with the electric toy shall be regularly examined for damage to the supply cord, plug, enclosure or other parts, and in the event of damage, it shall not be used until the damage has been repaired.

Misuse of AC adaptor can cause electrical shock.

This product contains batteries that are non-replaceable.

Products liable to be cleaned with liquids are to be disconnected from the AC adaptor before cleaning.



### Battery Precautions

- **Observe the precautions below. Failure to do so can cause the battery to explode or leak flammable liquid or gas.**
  - Do not burn a battery or dispose of it in an incinerator, or by mechanical crushing or cutting.
  - Do not subject a battery to excessively high or low temperatures during use, storage, or transport.
  - Do not subject a battery to excessively low barometric pressure during use, storage, or transport.

A labels rating is affixed to the bottom of the Moflin Bed (charger).

## The U.S.A.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 and Part 18 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### FCC CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines as this equipment has very low levels of RF energy.

### Supplier's Declaration of Conformity

Model Number : PE-M10, PE-HS1-M (Part 15 and 18)  
AD-G59200LJ (Part 15 only)

Trade Name : CASIO COMPUTER CO., LTD.

Responsible party : CASIO AMERICA, INC.

Address : 570 Mt. Pleasant Avenue, Dover, New Jersey 07801, USA

Telephone number : 973-361-5400



This device complies with Part 15 and Part 18 of the FCC Rules. Operation is subject to the following two conditions:  
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### CFR 47 §2.938 (b)(2) Attestation

This device is not produced by any entity identified on the Covered List, established pursuant to §1.50002 of the FCC rule, as producing covered communications equipment.

## Europe



Manufacturer:  
CASIO COMPUTER CO., LTD.  
6-2, Hon-machi 1-chome, Shibuya-ku, Tokyo 151-8543, Japan

Responsible within the European Union:  
Casio Europe GmbH  
Casio-Platz 1, 22848 Norderstedt, Germany  
www.casio.com  
E-mail address: info@casio.de

### ■ AC adaptor (AD-G59200LE)

INPUT : AC 100 to 240V, 50/60 Hz, 0.3A

OUTPUT : DC 5.9V, 2.0A, 11.8W

Average active efficiency : 81.40 (%)

Efficiency at low load (10%) : 76.92 (%)

No-load power consumption : 0.063 (W)

## The United Kingdom



Manufacturer:  
CASIO COMPUTER CO., LTD.  
6-2, Hon-machi 1-chome, Shibuya-ku, Tokyo 151-8543, Japan

Responsible within the United Kingdom:  
Casio Electronics Co. Ltd.  
10 Norwich Street, London, EC4A 1BD, U.K.  
www.casio.co.uk

Bluetooth LE (2.4GHz)  $\leq$  2.2dBm

WPT (Wireless Power Transfer) : 128kHz (109.89kHz to 146kHz)  $\leq$  3.5W

Hereby, CASIO COMPUTER CO., LTD. declares that the radio equipment type PE-M10 and PE-HS1-M are in compliance with The Radio Equipment Regulations 2017.

The full text of the UK declaration of conformity is available at the following internet address: <https://doc.casio.com>

### ■ AC adaptor (AD-G59200LE)

INPUT : AC 100 to 240V, 50/60 Hz, 0.3A

OUTPUT : DC 5.9V, 2.0A, 11.8W

Average active efficiency : 81.40 (%)

Efficiency at low load (10%) : 76.92 (%)

No-load power consumption : 0.063 (W)

## OSS (Open Source Software)

This product includes software that has been licensed in accordance with the terms of the license as stated below.

### STM32CubeFW

Copyright (c) 2017 STMicroelectronics. All rights reserved.

This software component is licensed by ST under BSD 3-Clause license, the "License"; You may not use this file except in compliance with the License. You may obtain a copy of the License at: [opensource.org/licenses/BSD-3-Clause](https://opensource.org/licenses/BSD-3-Clause)

Copyright (c) 2021 STMicroelectronics. All rights reserved.

This software component is licensed by ST under BSD 3-Clause license, the "License"; You may not use this file except in compliance with the License. You may obtain a copy of the License at: [opensource.org/licenses/BSD-3-Clause](https://opensource.org/licenses/BSD-3-Clause)



**CASIO COMPUTER CO., LTD.**  
6-2, Hon-machi 1-chome  
Shibuya-ku, Tokyo 151-8543, Japan