

# PLEO™

A COMPANION GUIDE

[www.pleoworld.com](http://www.pleoworld.com)

## IMPORTANT

Use Pleo in dry, indoor locations only.

To prevent electric shock, never immerse or stand Pleo or the battery charger base in water or other liquids. Never play with Pleo or the battery charger base while immersed or standing in water yourself.

Do not incinerate Pleo or the battery pack as batteries may explode.

Do not dispose of Pleo's battery pack as general waste. Pleo's battery pack contains nickel metal hydride and must be disposed of properly as hazardous waste or local regulations.

Never immerse the AC adaptor in water or other liquids.

Do not connect the AC adaptor to a power system if it is wet or damaged.

Pleo and the AC adaptor are not to be connected to more than the recommended number of power supplies.

Disconnect the AC adaptor from the battery charger base and from the power supply before cleaning the charger base or the adaptor.

The AC adaptor is not a toy.

The rechargeable battery pack in Pleo is only to be charged under adult supervision.

**The supply terminals are not to be short circuited.**

Periodically examine Pleo, the battery charger base, and the AC adaptor for potential hazards such as cracked, damaged, or broken parts. In the event of such damage, they must not be used until the damage has been repaired.

Pleo contains a special replaceable battery pack. Do not use any other battery pack not explicitly designated for Pleo, as it may not operate correctly and may cause damage.

Pleo's battery pack is rechargeable using the AC adaptor included in the package. Do not use any other adaptor not explicitly designated for Pleo, as it may cause damage to the battery pack and to Pleo.

Exhausted batteries are to be removed from Pleo.

The rechargeable battery pack is to be removed from Pleo before being charged.

AC adaptor power ratings: input 100v – 240v AC 50/60hz  
250ma / output 12v DC 800ma.



'Let's care for the environment!'

The wheeled bin symbol indicates that the product must not be disposed of with other household waste. Please use designated collection points or recycling facilities when disposing of the item

## FOR SAFE USE OF CHARGER

Tailor made NiMH battery pack, 7.2V rated, 2200mAh is used.

**Warning:** Do not recharge the non-rechargeable batteries because of the danger of eruption.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

**CAUTION:** Only allow children at least 8 years old to use the battery charger.

Examine the battery charger regularly for damage, especially the cord, plug and enclosure. If the battery charger is damaged, it must not be used until it has been repaired.

The charger is not a Toy, please do not play with it.

## BEFORE YOU GET STARTED

1. READ this Companion Guide.
2. CHARGE Pleo's battery for at least 3 to 4 hours before first use.
3. REGISTER
  - Online at [www.pleoworld.com](http://www.pleoworld.com) with the serial number located on the bottom of Pleo's front right foot or on your Pleo Identity Card.
  - By mail with the enclosed Registration Card.
4. CHECK for important software updates on [www.pleoworld.com](http://www.pleoworld.com). To download the latest software you will need a USB cable.
5. KEEP your original sales receipt for Warranty purposes.
6. CONTACT US  
Pleo is a technically advanced product and your experience is very important to us. If you have concerns about Pleo's functionality we would like to hear from you. Please contact UGOBE Customer Service before you consider returning Pleo to the place of purchase. You can reach us at [www.pleoworld.com/support](http://www.pleoworld.com/support) or call the Pleo service line listed in the Customer Support Information document included.

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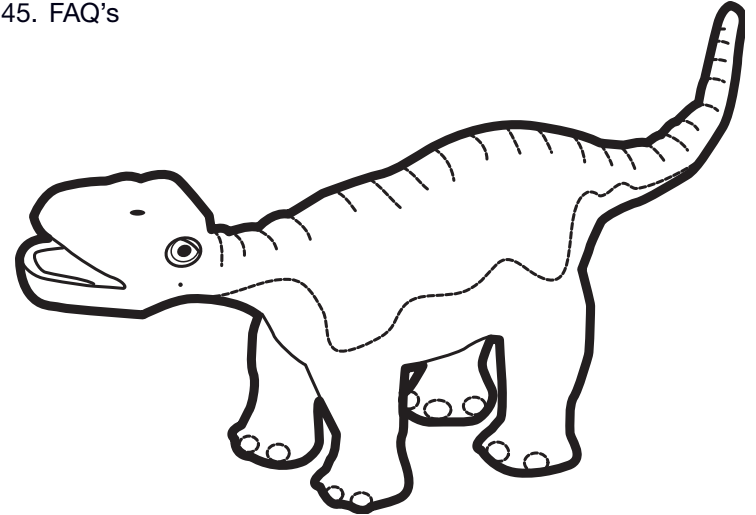
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WELCOME

## CONGRATULATIONS!

We are thrilled to introduce you to Pleo! You are now the proud owner of UGOBE's™ first Life Form.

All of us at UGOBE are passionate about creating robotic creatures that inspire emotional and lasting connections with people.

This guide will help you get started... but it won't tell you everything about Pleo – it can't!

You see, Pleo is more than a robotic dinosaur. He is an autonomous creature with a complex software architecture that enables him to:

- Learn over time
- Express emotion
- Respond to you and his environment

Keep a Plog (a Pleo Blog). Track Pleo's experiences and set of behaviors on [www.pleoworld.com](http://www.pleoworld.com). Compare notes with others in the Pleo community. And let us know what you discover!

*The UGOBE Life Forms Team*

Please note that the use of the pronoun “he” throughout this Guide is for simplicity and not an indication of the gender of your Pleo.



## THE 3 LAWS OF UGOBE LIFE FORMS

UGOBE Life Forms must:

1. Feel and convey emotions
2. Be aware of themselves and their environments
3. Learn and evolve over time



## GETTING STARTED WITH PLED

## What's In the Box

1. Pleo
2. QuickStart Guide
3. Companion Guide
4. Battery, Charger and AC Adaptor
5. Pleo Identity Card
6. Training Leaf

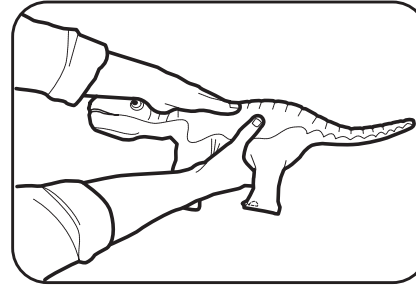
SD Card, SD Card Reader / Writer not included in package and sold separately at your local electronics retailer.

## Handling Pleo

Like any newborn or pet, Pleo must be handled with the utmost care. Remember that he is a highly sophisticated, state-of-the-art Life Form.

## Some very important DO's and DON'Ts:\*

### Please DO\*



- Place a supporting hand under Pleo's belly when picking him up.
- Treat Pleo as you would treat any living creature – with care and respect.
- Turn Pleo off and stand him on all four legs when not in use. Place Pleo back in his package for safe and secure transportation and storage. Use the Pleo button to return Pleo to storage position (see page 27).

## Please DON'T\*

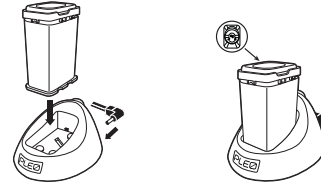
- Abuse Pleo
- Get Pleo wet
- Throw, drop, or violently shake Pleo
- Sit on Pleo
- Place Pleo near heat or flames  
(e.g. wall heaters, floor heaters, fires, stoves)
- Place Pleo in sand, soil, or mud
- Leave Pleo with other pets or animals capable of biting or damaging him
- Risk overheating Pleo by covering him with a blanket during play
- Allow small children to play with Pleo unsupervised

\* The purchaser shall not be entitled to any right of recourse from the manufacturer if: (a) purchaser's Pleo unit is damaged by accident, misuse, neglect, abuse, immersion in water, excess humidity, fire, or other hazard; (b) purchaser's Pleo unit is used with products not sold or licensed by UGOBE (including, but not limited to, product enhancements (including, without limitation, enhancements to Pleo units), adaptors and power supplies, provided by third parties); (c) purchaser's Pleo unit is used for commercial purposes (including, but not limited to, rental purposes); (d) purchaser's Pleo unit is modified by anyone other than UGOBE or its authorized repair providers; (e) the serial number on purchaser's Pleo unit is altered, defaced, or removed; or (f) the exterior finish of purchaser's Pleo unit is damaged or there is cosmetic damage, including, but not limited to, normal wear and tear. Purchaser's statutory rights are unaffected.

## Charging Pleo's Battery

As a new Pleo owner, please charge Pleo's battery right away.

1. Plug AC adaptor jack into charger cradle and plug into the wall. Securely place battery into charger cradle.

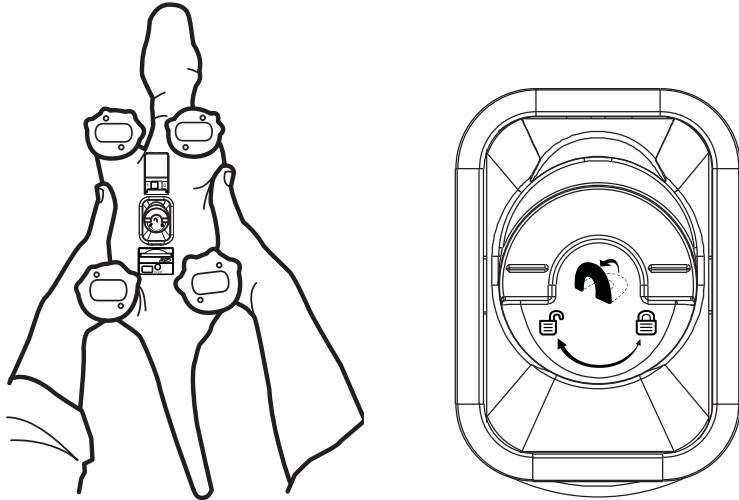


2. The typical charge cycle is 3 to 4 hours. The "PLEO" logo on the charger will illuminate green when charging is complete.

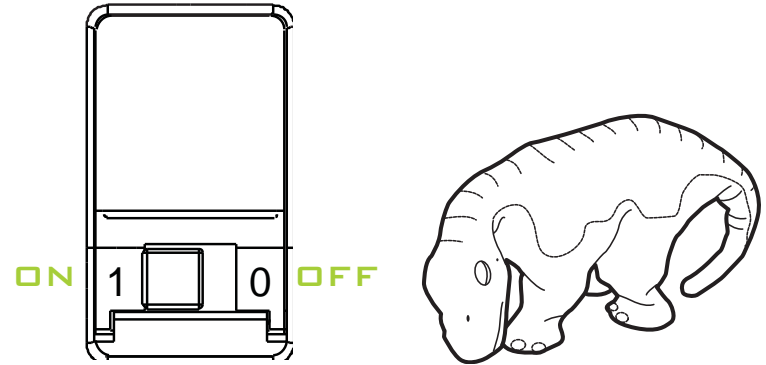
Indicator Light	Status
Red	Actively charging
Green	Charging complete
No Light	Check power to charger cradle
Flashing/Blinking	<ul style="list-style-type: none"><li>• Battery not seated properly. Make sure it is securely placed in charger.</li><li>• Battery temperature too hot and needs to cool down. Leave as is. Check back in a few minutes.</li></ul>

In hot (+35°C) and cold temperatures (0°C), battery may not charge.

3. Push release button on back of charger cradle to release battery when fully charged.
4. Insert battery into opening in Pleo's belly. Lift up the semi-circular key of battery cover. Twist counter-clockwise to lock in place. Fold down semi-circular key.



5. Turn power switch to ON ("1") position for play with Pleo.



**Warning: Do NOT use non-Pleo AC Adaptor or Battery Charger. Those included in the box are specifically designed for Pleo ONLY.**



## GETTING ACQUAINTED

## Life Stages

Pleo has three life stages, and his progress depends on your level of interaction. Listen for his first sounds, look for his first steps, watch how he adjusts to his world. As Pleo progresses through each stage, he exhibits a broader range of movement and behaviors.

### The Three Pleo Life Stages

#### Stage 1 – Birth

##### Duration

First 5-10 min., approx. (depending on level of active interaction)



##### What to Expect

Pleo opens his eyes to both you and the world for the first time. He starts to adapt to his environment. He is very slow, and his sensors are not very responsive yet. The more you pet and nurture Pleo in this stage the more confident he becomes and the faster he will develop. Pleo is finished “hatching” when he is fully awake and stands up on all four feet.

#### Stage 2 – Hatchling

##### Duration

30-45 min., approx (depending on level of active interaction)



##### What to Expect

Pleo starts to exhibit basic behaviors and needs. He begs to be fed, starts to walk, explores his environment, takes short naps like a baby, and starts to exhibit a wider range of emotions.

#### Stage 3 – Juvenile

##### Duration

Indefinitely; the rest of his life

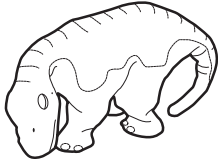


##### What to Expect

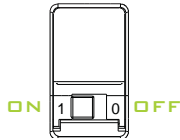
Pleo enters into his final stage of development. As he expands his capacity to learn, he exhibits a full range of movement and behaviors. He begins asserting a personality. You can't go wrong (aside from physically mistreating Pleo), so take your time to observe, play and learn about Pleo.

## Waking Pleo

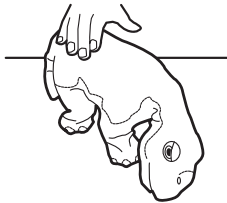
1. Now that Pleo is fully charged, it's time to wake Pleo for the very first time!



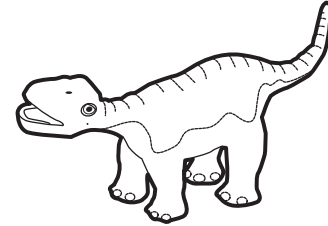
2. Make sure Pleo is turned ON ("1").



3. Place a hand on Pleo's back and gently shake him.



4. Please know that Pleo might not fully wake at first. Invite Pleo to open his eyes and say hello to the world by petting, touching, and talking to him. Pleo might not know exactly what you're saying but he can certainly feel your touch!



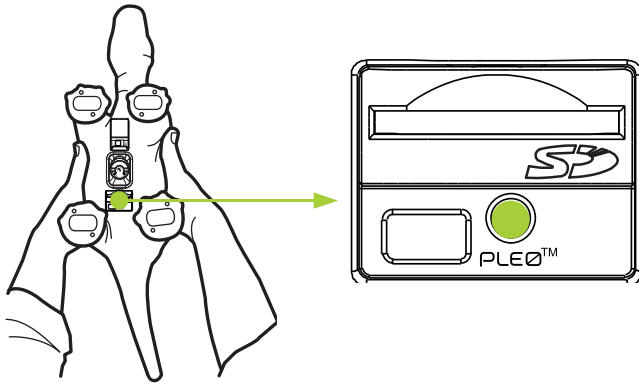
Pleo is awake when he starts to exhibit all the signs of a newborn Life Form. You may see him:

- Open his eyes wide, blink a few times, and look around his new environment.
- Stretch and let out a cry.
- Take his very first shaky and tentative baby step!

And now your journey really begins...

## The Pleo Button

Activation	Function
Press once	Mute
Press second time	Soft Volume
Press third time	Normal Volume
Hold 10 Seconds	Turn Off / Packaging / Storage Position



## Interacting with Pleo

Pleo is a complex Life Form capable of feeling and perceiving. Explore how Pleo's sensory abilities enable him to see and sense both touch and motion.

### Touch:

Pat, hold, and pet Pleo. Have fun exploring how Pleo reacts to being touched on his head, chin, back, and legs.

### Sight:

Pleo is able to detect objects in his path.

### Sound:

In a very quiet environment, when he is very still, Pleo can hear sounds from his left or right.

### Feel:

Pleo can tell when he is on the ground, being held in the air, or has been accidentally tipped over. See if he is ticklish.

### Exploration:

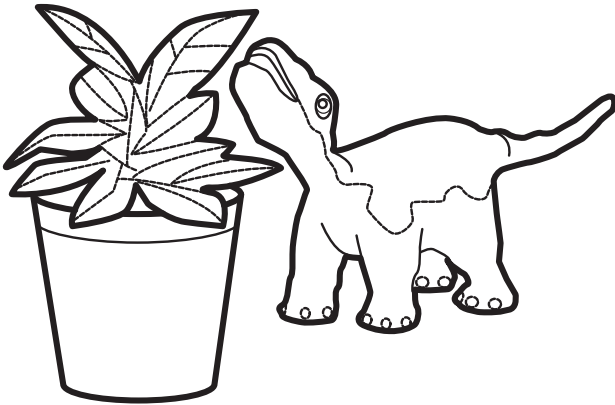
Pleo is able to navigate around objects and other Life Forms in his environment.

### Interaction:

See how your Pleo interacts with other Pleos.

### Caring for Pleo:

Pleo can express dissatisfaction from time to time. Please treat Pleo as you would any other living creature – with care. Be attentive with how you raise your Pleo.



Like any pet or newborn Life Form, Pleo actively responds and interacts with his environment.

### Here are some suggestions on how to play with Pleo:

- Place the training leaf in Pleo's mouth. If he's not hungry, does he play "tug-of-war"?
- Set a soda can in front of him. How does Pleo react?
- How does Pleo react when you pick him up and hold him?
- How does your Pleo respond to being petted, held and loved?
- What happens if you turn Pleo upside down? Can he tell which way is up?
- Can you teach Pleo to do a trick?

Remember: Have fun! Pleo is a Life Form. See what he is capable of doing. Observe how he responds to you and his environment.

Get to know your Pleo and log on to [www.pleoworld.com](http://www.pleoworld.com).

What can your Pleo do?



## UNDERSTANDING YOUR PLED

## Pleo's Emotions

What determines how Pleo feels?

UGOBE's™ Life OS is a complex software system that combines core behavioral instincts (e.g. the need to eat, sleep, explore, interact) with the ability to respond to and interpret external stimuli (e.g. sound, light, touch, objects).

For example, if Pleo:

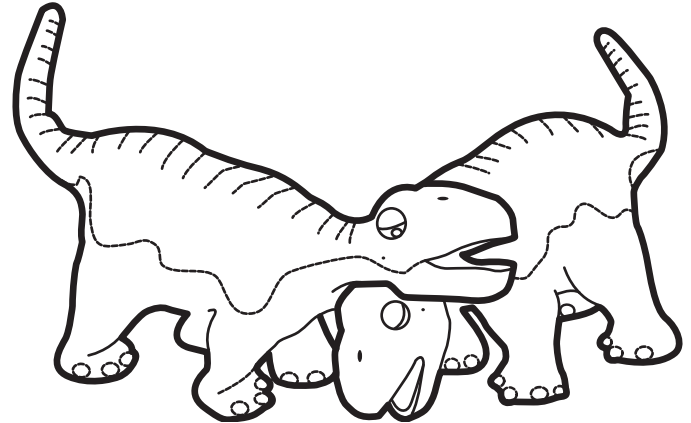
- Has not been interacting with anyone or receiving any external stimuli, he may get bored and take a nap.
- Is feeling adventurous, he may choose to venture off on his own.
- Is feeling hungry, he may learn to satisfy his hunger by wandering off and grazing on his own.
- Has recently eaten, he may want to play tug of war.

Pleo's response to his environment depends on how he feels at the moment. The intensity of his moods may also vary.

He may feel:

- Very happy
- A little sad
- Somewhat curious
- Extremely scared
- Or something else altogether.

Play with Pleo and get to know him. Keep track of moods. Figure out for yourself what makes your Pleo tick!





[WWW.PLEOWORLD.COM](http://WWW.PLEOWORLD.COM)

**IMPORTANT: Check for any critical or important software updates for your Pleo. Once you've registered you will automatically receive e-mail notification of software updates.**

## Registering Pleo

Registration is quick and easy!

- Visit [www.pleoworld.com](http://www.pleoworld.com)\*\*
- Locate your 12-digit serial number under your Pleo's front right foot or on your Pleo Identity Card.
- Record your user name and password for safe-keeping.

Welcome! You have now joined the PleoWorld community!

*\*\* OR mail in the included Registration Card. Make sure to provide phone number, address, and email so that we can contact you with critical updates.*

## Joining PleoWorld

What is PleoWorld? It is a whole community of Pleo owners and robotics enthusiasts who share your passion for Pleo on [www.pleoworld.com](http://www.pleoworld.com).

What can you do on PleoWorld?

### Personalize:

- Access new downloads for Pleo sounds and behaviors

### Connect:

Join an Online and Offline Community

- Participate in discussion boards
- Share with other Pleo owners
- Find like-minded Pleo pals
- Search for other Pleo owners in your neighborhood

### Share:

- Create a Custom Pleo Profile
- Write a "Plog" or Pleo Blog
- Share Pleo stories — upload videos and photos

## Software Updates

Download content and additional software from the Pleo web site [www.pleoworld.com](http://www.pleoworld.com).

PleoWorld.com offers a variety of cool downloads for your Pleo. Downloads include:

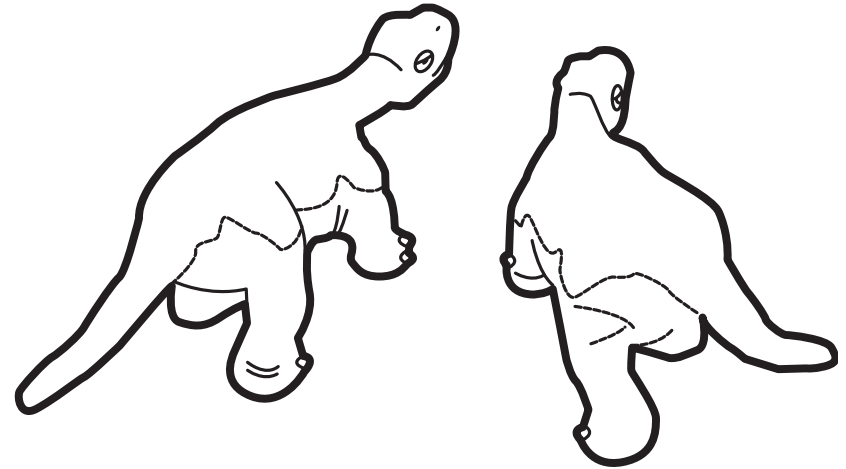
- Fun downloads to expand your Pleo's capabilities
- The latest Pleo software updates

To access PleoWorld and to transfer downloaded files to your Pleo, you will need the following:

- A PC or Mac
- An Internet connection
- A USB cable - for software updates only
- An SD Card Reader/Writer\*
- A blank SD Card\* – for fun downloads

Most high performance SD cards will work successfully with Pleo. Check [www.pleoworld.com](http://www.pleoworld.com) for specific suggestions on SD cards.

*\* Each sold separately at your local electronics retailers.*





## APPENDIX

## Troubleshooting

### How do I care for my Pleo?

Please heed all cautionary statements contained in this manual, including all electrical warnings and handling instructions. To clean Pleo, use only a damp cloth and wipe carefully. Do not use soap or any other cleaning agents. And please, do not attempt to make any repairs yourself! You will automatically void the Warranty included in this package.

### Why is my Pleo slow and sluggish?

Just like a real life puppy, Pleo needs his rest. When his battery is running low or in extremely hot temperatures, Pleo may slow down, seem tired or sleepy, or even shut down. Please keep Pleo indoors or in moderate climates between 0°C to 35°C.

### Why is my Pleo not turning “ON”?

1. Make sure the battery has been charged for four hours.
2. Double check that Pleo has been switched “ON” (see page 20 “Charging Pleo”).
3. Is Pleo sleeping? Gently nudge or tap Pleo to wake him up.

4. Much like a cell phone battery, the Pleo battery may need to be replaced over time. Log onto [www.pleoworld.com](http://www.pleoworld.com) for more information on purchasing a replacement rechargeable battery pack. Please note: Pleo contains a special replaceable battery pack. Do not use any other battery pack not explicitly designated for Pleo, as it may not operate correctly and may cause damage.

### How can I find out whether my Pleo has mechanical or software failures?

Log online to [www.pleoworld.com](http://www.pleoworld.com) to download software updates or contact customer support.

### My Pleo is being too loud. How do I reduce the volume or turn the sound off?

Press the Pleo Button once to “Mute”, press twice for low volume, and press three times for loud volume. (See page 27 for Pleo Button under “Interacting with your Pleo”.) Please note, complex gears and motors inside of Pleo may cause a moderate level of noise any time Pleo is in motion.

### Why is my Pleo freezing up or stopping in the middle of an action?

Pleo may stop operating or “lock up” when receiving an electro-static discharge. Simply turn the power OFF and then back ON to resume play.

For further questions, please contact us at:

<http://pleoworld.com/home/contact>

or call the Pleo service line listed in the Customer Support Information document included.

### FAQ's

#### What is Pleo?

Pleo is an autonomous robotic life form, modeled on a one-week-old Camarasaurus dinosaur. Pleo is designed to mimic life which means Pleo thinks and acts independently, just like a real animal.

#### What do you mean by “Life Form”?

In general, a UGOBE Life Form looks, moves, and behaves in ways that trigger a “belief of life.” Specifically, Pleo has organic body language, exhibits emotions, is aware of his surroundings, and has recognizable behaviors.

### What is a Camarasaurus?

Camarasaurus (KAM-ah-rah-sawr-us) means “Chambered Lizard” (Greek kamara = chamber, and sauros = lizard), referring to the holes in its vertebrae. Camarasaurus is the best-known sauropod found in North America and the most abundant of fossils from the Late Jurassic period. Camarasaurus also lived in Europe, where it survived into Early Cretaceous times. A complete, nearly perfect skeleton of a juvenile, 17 foot (5.2 meters) long was found in Utah. Its head was short and box-like with nostrils set above the snout and in front of the eyes. The weight of its backbone was lightened by holes in its vertebrae. Its neck was shorter and thicker than most sauropods, and it possessed a short and somewhat flattened tail. The forelimbs and hind legs of Camarasaurus were about the same length.

#### What makes Pleo special?

At the heart of Pleo and other UGOBE Life Forms is UGOBE's Life OS. It is the operating system software that enables Pleo to act independently and adapts Pleo's personality according to his interactions with you and the environment.

### What is UGOBE Life OS?

UGOBE Life OS is a complex platform of tools and technologies that enable Pleo's mechanical, electronic, sensory, and Artificial Intelligence systems to interact as a lifelike whole.

### What is UGOBE?

UGOBE is the creator of Pleo. We are the Emeryville, California-based company that develops revolutionary robotics, transforming inanimate objects into lifelike creatures that inspire emotional and lasting connections with people. You can visit us at [www.ugobe.com](http://www.ugobe.com).

### What age is Pleo suitable for?

Pleo is a highly sophisticated product that is much like an inquisitive animal that requires attention and care. Children under 8 years old should be supervised when playing with Pleo.

### Can Pleo talk?

Pleo makes animal sounds but Pleo does not say any words.

### Will Pleo be able to hear?

Yes, Pleo is able to hear sounds when he is still and it is quiet.

### What are some things Pleo cannot do?

Pleo cannot fly and Pleo cannot swim! Please ensure that you do not drop Pleo from a great height or drop him into water, as doing so will void the Warranty included in this package. Pleo is for use only in dry, indoor locations. Remember to care for Pleo like a pet – with the utmost care.

### Can I paint my Pleo?

No. Please do not paint your Pleo, as the thinner that the paint contains might adversely affect Pleo's skin material. We do, however, encourage you to accessorize your Pleo to match his unique personality.

For further questions, please contact us at:

<http://pleoworld.com/home/contact>

## Declaration of Conformity

### Issuers Details

Company Name:	UGOBE, Inc.	Date of Issue:	
Address:	P.O. Box 8397, Emeryville, California 94662-8397, USA		

### Product Details

Product Item code	Product Description
12006	Pleo

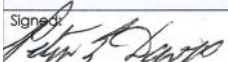
### Standards / Directives / Codes

Number	Date	Title
EN55014: Part 1	2002	Electromagnetic Compatibility (EMC – Emissions)
EN55014: Part 2	2002	Electromagnetic Compatibility (EMC – Immunity)

### Additional Information / Comments / Exclusions / Exemptions


### Declaration

I hereby confirm that the above products meet the requirements of the listed standard/s / Directives / Codes

Signed: 	Print name: Peter E. Davis	Date:
Position: Consultant to UGOBE, Inc.	Company: Peter E. Davis Consulting (on behalf of UGOBE, Inc.)	



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Patents pending.

[www.ugobe.com](http://www.ugobe.com)

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