EXPERIMENT MANUAL

Robotic Jellyfish Nightlight Kit Good to know!

If you are missing any parts, please contact Thames & Kosmos technical support.

KIT CONTENTS





Dear parents and adults.

Please support and accompany your child when assembling the Robotic Iellyfish Nightlight. Read the instructions together and follow them. Assembling the Robotic Jellyfish Nightlight is an exciting project and can take one to two hours. Please ensure that all parts of the kit are kept away from small children. Have fun assembling and experimenting with your **Robotic Jellyfish Nightlight Kit!**

SAFETY INFORMATION

WARNING

WARNING: Not suitable for children under 3 years. Choking hazard — small parts may be swallowed or inhaled. Strangulation hazard - long cord may become wrapped around the neck.

WARNING: This toy is only intended for use by children over the age of 8 years and above due to accessible electronic components. Instructions for parents or caregivers are included and shall be followed.

Keep packaging and instructions as they contain important information.

- > WARNING: To reduce risk of fire or electric shock, do not expose this product to rain or moisture. Do not use near water
- > Unplug this device when unused for long periods of time.
- > Do not stare directly into the LED.
- > Inspect the product before use. If damage is suspected, discontinue use immediately.
- > The toy is not intended for children under 3 years old.
- The toy must only be used with the recommended transformer (USB power adapter, DC 5V).
- The transformer is not a toy
 - Checklist:

J	No.	Description	Quantity	Part No.
Ö	P1	Jellyfish dome	1	729852
Ö	P2	Locking key	1	729853
Ö	P3	Top cover	1	729854
Ö	P4	Ring frame	1	729855
Ö	P5	Gear switch	1	729856
Ö	P6	Housing bottom	1	729857
Ö	P7	Base bottom cove	er 1	729858
Ö	P8	Housing top	1	729859
Ö	P9	LED cap	1	729860
Ö	P10	Planet gear carri	er 1	729861
Ö	P11	Planetary drive g	ear 1	729862
Ö	P12	Sun gear	1	729864
Ö	P13	Planet gear	8	729865
Ö	P14	Ring gear	1	729866
Ö	P15	Gear with hex hol	e 1	729867
Ö	P16	Cam gear	1	729868
Ö	P17	Gear, 18T	1	729869
Ö	P18	Double gear	6	729870
Ö	P19	Gear, 28T	1	729871
Ö	P20	Gear for LED	1	729872
O	P21	Gear, 26T	1	729873
Ô	P22	Drive shaft	1	730249

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. > The toy is not to be connected to more than

> The transformer or power supply used with the toy shall

- the recommended number of power supplies. This means only use the included USB-C cable.
- The wires are not to be inserted into socket outlets
- > This toy is only to be connected to equipment bearing either of the following symbols:



J	No.	Description 0	luantity	Part No.
Ο	P23	Jig	1	729874
Ο	P24	Switch	1	729875
Ο	P25	Bottom cover	1	729876
Ο	P26	Base bottom cove	r 1	729878
Ο	P27	Base side cover	1	729879
Ο	P28	Base gear housing	g 1	729880
Ο	P29	Post cover, left	1	729881
Ο	P30	Post cover, right	1	729882
Ο	P31	Post cover, bottom	า 1	729883
Ο	P32	Post cover, top	1	729884
Ο	P33	Tentacle	8	729885
Ο	P34	RGB LED with wire	e 1	729886
Ο	P35	Short spring	1	729887
Ο	P36	Long spring	2	729889
Ο	P37	Shaft, hexagonal	1	729890
Ο	P38	Motor with worm g	ear 1	729891
Ο	P39	Circuit board	1	729892
Ο	P40	Contact plate	1	729893
Ο	P41	Shaft, round	8	729894
Ο	P42	Screw	10	729895
Ο	P43	USB-C cable	1	729896
Ο	P44	Foam piece	1	730248



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The jellyfish has a planetary gear train in its head. One of three elements can be fixed into place with P2. This affects the movement of the robot.

	Which gear is fixed?	Jellyfish head rotation	Tentacle rotation	Tentacle spin
Mode 1	Sun gear	C	C	Ç
Mode 2	Planet gear carrier	Ċ	Ø	Ċ
Mode 3	💮 Ring gear	Ø	Ċ	Ċ



When inserting P2, gently rotate the outer ring slightly. This makes it easier to insert P2.







Insert the Type-C end into the base and insert the USB end into a wall brick or USB port (not included). Switch to "on" to power the model.



When the robot is on, the LED cycles between different colors. Switch it to the lock symbol to fix a certain color and stop the gears from turning.

When you are going to sleep or when you will be away from the toy, switch it to lock mode or turn it off to ensure optimal performance.

NOTES ON DISPOSAL OF ELECTRICAL AND ELECTRONIC COMPONENTS:

The electronic components of this product are recyclable. For the sake of the environment, do not throw them into the household trash at the end of their lifespan. They must be delivered to a collection location for electronic waste, as indicated by the following symbol:

Please contact your local authorities for the appropriate disposal location.



TROUBLESHOOTING



Scan the QR code for a video on how to solve common issues.



How the light changes color



RGB LEDs actually contain three LEDs: red, green, and blue. By sending different amounts of electricity to each LED, the brightness of each LED can be controlled. The different brightnesses of red, green, and blue light combine to create different hues.

The gear train actually drives the color-changing behavior mechanically. When the gear (P20) rotates clockwise, the metal contact plate (P40) attached to it rotates as well. The contact plate functions as a rotating switch. When one of its raised contact points touches a section of the conductive circle on the circuit board above it, one of the three colored LEDs lights up. If both contacts are touching the same section (e.g., red), then the resulting color will simply be that one color (e.g., red). But if the contacts are touching two different sections (e.g., red and blue), then the colors mix to result in a new color (e.g., magenta).

- FCC Part 15 Statement This device complex with Part 15 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

base name therefore, and (2) this device indicated particular interference received, including interference that may cause undesired operation. Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses 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 dees cause harmful interference to radio or television reception, which can be determined by

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Technical product development: Dominik Ulrich, Genius Toy Taiwan Co., Ltd. Manual design concept: Atelier Bea Klenk, Berlin. Packasjing design concept: Peter Schmidt Group, Hamburg Packaging layout: Dan Freitas Illustration and images: Genius Toys Taiwan Co., Ltd. Manual text and layout: Hannah Mintz and Ted McGuire

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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 ban.

help.

ICES Statement CAN ICES-3 (B)/NMB-3(B) This Class B digital apparatus complies with Canadian ICES-003.

This device complies with Industry Canada licence-exempt RSS standard[s]. Operation is subject to the following two conditions: 11 this device may not cause interference, and [2] this device must accept any interference, including interference that may cause undesired operation of the device.

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