



littlehippo

# KELVIN

Color Changing Night Light,  
Room Thermometer and Hygrometer

## SETUP GUIDE

**1 Year** Limited Warranty  
support@littlehippo.com  
650-395-7884  
littlehippo.com

**CONGRATULATIONS** on your purchase of KELVIN, the all-in-one room monitor to help give you peace of mind!

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# MEET KELVIN



**Fig. 1 KELVIN**

Thank you for purchasing KELVIN, the children's all-in-one room monitor. KELVIN displays the room's temperature and humidity so you can keep your child's room comfortable and safe.

KELVIN is also a night light that changes color based on the room temperature. Blue means it is too cold; red means it is too hot; and amber means it is within our

recommended range! Because each infant's environment is different, you may program KELVIN's amber range to follow your doctor's recommendations.

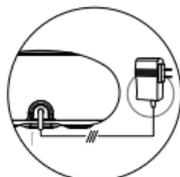
Each Little Hippo purchase comes with a 100% Satisfaction Guarantee and one year warranty. Contact [support@littlehippo.com](mailto:support@littlehippo.com) for support, warranty claims and inquiries.

Now, let's get started.

## IN THE BOX



**KELVIN**



**AC ADAPTER**

# SETUP AND MAINTENANCE

## SET UP

Attach the AC adapter jack to KELVIN's base (Fig. 2) and insert the cord into a 100V-240V household outlet.



Fig. 2 KELVIN's Base

## STORE

KELVIN should be left on display, or stored in its box or a cool, dry place. Avoid putting KELVIN over or close to heat sources (such as a radiator) or in direct sunlight, for safety and accuracy reasons.

## CLEAN

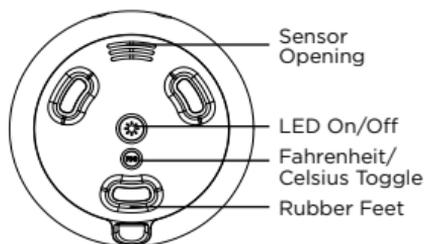
Wipe off dust with a soft, damp cloth. Do not use liquids or abrasive cleaners. Avoid cleaning with liquids or cleaners near the sensor opening on the base.

# DISPLAY

 LED	<b>F/C</b> Fahrenheit/Celsius
 Temperature	 Humidity

## CONTROL PANEL

To program all settings, use the control panel on the bottom of KELVIN (Fig. 3).



**Fig. 3** Control Panel

## TEMPERATURE TOGGLE

When KELVIN is first plugged in, the display will read in Fahrenheit.

To toggle between Fahrenheit and Celsius, press the F/C button on the base of the device (Fig. 4).



**Fig. 4** F/C Button

## NIGHT LIGHT TOGGLE

When KELVIN is first plugged in, the color changing night light will turn on.

To toggle the night light on or off, press the LED button on the base of the device (Fig. 5).



Fig. 5 LED Button

## INFANT SAFER SLEEP INFORMATION

Sleep experts advise to keep a baby's room at a temperature level that is comfortable for an adult. Studies have shown that overheating, along with other factors, can increase the risk of Sudden Infant Death Syndrome (SIDS). It is difficult to provide specific room temperature guidelines to avoid overheating, although "acceptable" ranges generally lie between 61-72° F (16-22° C).

KELVIN displays an amber light if the room temperature is within its default range of 68-72° F (20-22° C). Outside this range, KELVIN will display a blue light if the room is too cold, and will display a red light if the room is too hot.

Because a "comfortable" yet realistic temperature level can depend on multiple factors including geography, you may customize KELVIN's amber

### USER TIP

When toggling between temperature scales, it is possible for the colors to change due to rounding during conversions to Fahrenheit or Celsius.

range. We strongly encourage consulting your doctor if you are unsure of what temperature range is safe for your infant.

This setup guide provides additional information on how to create a safer sleeping environment for your baby.

KELVIN is not a substitute for active monitoring. Be sure to check your

infant regularly to ensure he/she is not too hot or cold. Signs of overheating include sweating or the baby's chest feeling hot to the touch.

Always consult your doctor before settling on conditions in your baby's room and if you have any questions or concerns.

## TEMPERATURE RANGE

KELVIN will display one of three colors depending on what the room temperature is. If the temperature displays a blue or red light, take steps to heat or cool your baby's room, respectively.

### DEFAULT RANGES



**BLUE**

Under 68° F (Under 20° C)



**AMBER**

68-72° F (20-22° C)



**RED**

Over 72° F (Over 22° C)

## CUSTOMIZE THE AMBER RANGE

- 1. Hold down the F/C button** for 2 seconds to enter Set Temperature mode. When setting for the first time, KELVIN will display the temperature icon and the lowest temperature in the default amber range - 68° F (20° C) (Fig. 6).
- 2. Press the LED button** to increase the temperature up to a maximum of 72° F (22° C).

### Press the F/C button

to decrease the temperature down to a minimum of 61° F (16° C).

Adjust the amber range by selecting the lowest temperature desired in the range. The amber range is always a five degree range in Fahrenheit (or three degree range in Celsius), inclusive of the endpoint degrees. Refer to the charts on pages 9 and 10 for allowable custom amber ranges.



Fig. 6 Set Temperature Mode (in ° F)

- 3. Hold down the F/C button** for 2 seconds to save and exit Set Temperature mode.

**Example:** If you adjust the lower bound temperature from 68° F to 70° F, the amber range will change from 68-72° F to the new custom range, 70-74° F.

Refer to the following tables for the allowable custom amber ranges. Cells highlighted in green are lower bound temperature options you may select. KELVIN's default settings are highlighted in yellow.

Acceptable Range		Too Cold	Too Hot
Display Setting Lower Bound Amber (° F)	Upper Bound Amber (° F)	Blue (° F)	Red (° F)
61	65	≤ 60	≥ 66
62	66	≤ 61	≥ 67
63	67	≤ 62	≥ 68
64	68	≤ 63	≥ 69
65	69	≤ 64	≥ 70
66	70	≤ 65	≥ 71
67	71	≤ 66	≥ 72
68	72	≤ 67	≥ 73
69	73	≤ 68	≥ 74
70	74	≤ 69	≥ 75
71	75	≤ 70	≥ 76
72	76	≤ 71	≥ 77

Acceptable Range		Too Cold	Too Hot
Display Setting Lower Bound Amber (° C)	Upper Bound Amber (° C)	Blue (° C)	Red (° C)
16	18	≤ 15	≥ 19
17	19	≤ 16	≥ 20
18	20	≤ 17	≥ 21
19	21	≤ 18	≥ 22
20	22	≤ 19	≥ 23
21	23	≤ 20	≥ 24
22	24	≤ 21	≥ 25

# SAFER SLEEP GUIDELINES

In 2016, the American Academy of Pediatrics (AAP) released updated recommendations for creating a safer infant sleeping environment and to reduce the risk of SIDS and other sleep-related infant deaths. Their recommendations include but are not limited to:

1. Infants should always be placed for sleep entirely on their backs until at least one year of age. Side sleeping is not safe.
2. Infants should sleep on a firm sleep surface covered with a tightly fitted sheet and no other bedding or soft objects.
3. Infants should sleep in the parents' room (although on a separate surface designed for infants, not in the same bed), ideally until at least one year of age.
4. Never place the infant to sleep on a couch or armchair.
5. Keep soft objects and loose bedding away from the infant's sleep space.
6. Consider using a pacifier during nap time and at bedtime.
7. Avoid overheating as well as using head and face covers. Avoid over-bundling. Generally, infants should dress appropriately for their environment, with no greater than one layer more than an adult would wear to be comfortable.
8. Do not allow anyone to smoke near your infant.
9. Keep your infant up to date with vaccinations and check ups according to your health care provider.
10. Breastfeeding is recommended and is associated with a decreased risks of SIDS.

Refer to the policy statement released by the AAP entitled “SIDS and Other Sleep-Related Infant Deaths: Updated 2016 Recommendations for a Safe Infant Sleeping Environment” for the latest guidelines.

Always consult your doctor before settling on conditions in your baby's room and if you have any questions or concerns.

## HUMIDITY GUIDELINES

The United States Environmental Protection Agency (EPA) recommends keeping indoor relative humidity between 30% and 50%, to decrease mold growth.

If the relative humidity is too low, your infant can experience discomfort such as cracked skin or dried-out nasal passages. To increase humidity levels, you may use a humidifier to introduce moisture into the air.

If the relative humidity is too high, the environment becomes conducive to mold growth and allergens. To decrease humidity levels, you may use a dehumidifier.

Always try to maintain consistent humidity levels in your baby's room throughout the year.

Consult your doctor before settling on humidity conditions in your baby's room and if you have any questions or concerns.

# ONE YEAR WARRANTY

Little Hippo's warranty covers defects in material and product workmanship under normal use for a period of one (1) year. The warranty does not cover damages resulting from misuse, abuse, immersion, normal wear and tear or unauthorized modification.

For warranty claims, please contact us:

Phone: 650-395-7884

Email: support@littlehippo.com

There are no expressed warranties except as listed above. This warranty gives you specific legal rights which may vary from state to state. **NOT LEGAL FOR TRADE.**

## TECHNICAL INFORMATION

### AC ADAPTER

Input Voltage:

AC 100V-240V, 50Hz or 60Hz

Output Voltage: DC 5V

### OPERATING TEMPERATURE RANGE

(32F-104F, +/- 2F)

(0-40C, +/- 1.5C)

### OPERATING HUMIDITY RANGE

(20%-90%, +/-5%)

Allow sufficient time for KELVIN to accurately calibrate and measure the temperature and humidity of the surrounding environment. Avoid repeatedly plugging and unplugging KELVIN. For accurate readings, keep KELVIN on a solid surface away from heat sources (such as a radiator or sunlight) and avoid holding KELVIN in your hand.

# IMPORTANT SAFETY INFORMATION

## READ ALL INSTRUCTIONS BEFORE USING. SAVE THESE INSTRUCTIONS.

To reduce the risk of electric shock, burns, fire or injury:

- Do not attempt to open KELVIN. Please refer any servicing to qualified service personnel.
- Unplug KELVIN from the outlet when not in use and before cleaning.
- Keep KELVIN away from water and locations where it can fall or be pulled into a water source such as a tub or sink.
- Keep KELVIN away from heat sources such as stoves, radiators and other devices emitting heat.
- Keep KELVIN out of reach of your child's crib or bed, and ensure that the cable cannot be pulled out by a child.
- Use KELVIN only for its intended use as described in this manual. Do not use attachments not provided with KELVIN.
- Do not spill liquid on or into KELVIN, and never insert objects into the openings. Take care to avoid cleaning with liquid or spilling any liquid into or around the sensor opening.
- Do not use KELVIN if it has a damaged cord, plug, cable or housing. Please reach out to Little Hippo at [support@littlehippo.com](mailto:support@littlehippo.com) or 650-395-7884.

Do not disassemble or modify KELVIN. Modifications not authorized by the manufacturer may void user's authority to operate KELVIN, void the warranty and may be dangerous.

## FCC DISCLAIMER

This device complies with Part 15 of the FCC Rules. Operation of this device 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.

Caution: Changes or modifications that are not expressly approved by the manufacturer could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant of 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 radiates radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference in the radio communications. 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, you are encouraged to try to correct the interference by one or more of the following measures:

1. Reorient / relocate the receiving antenna.
2. Increase the separation between the equipment and the receiver.
3. Connect the equipment into an outlet from a different circuit where the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.



**littlehippo**

We stand behind our 100% Satisfaction Guarantee and one year warranty.

Visit [littlehippo.com](http://littlehippo.com) for more information.



Note: Due to production changes and improvements, actual product may vary slightly from images shown in manual and/or on packaging.

Note: This guide is updated as of 30/10/2017. Always consult your doctor for the latest recommendations and guidelines.

Patent Pending

**PARENTHOOD JUST  
GOT EASIER**