

pH PenPlus User Manual



English

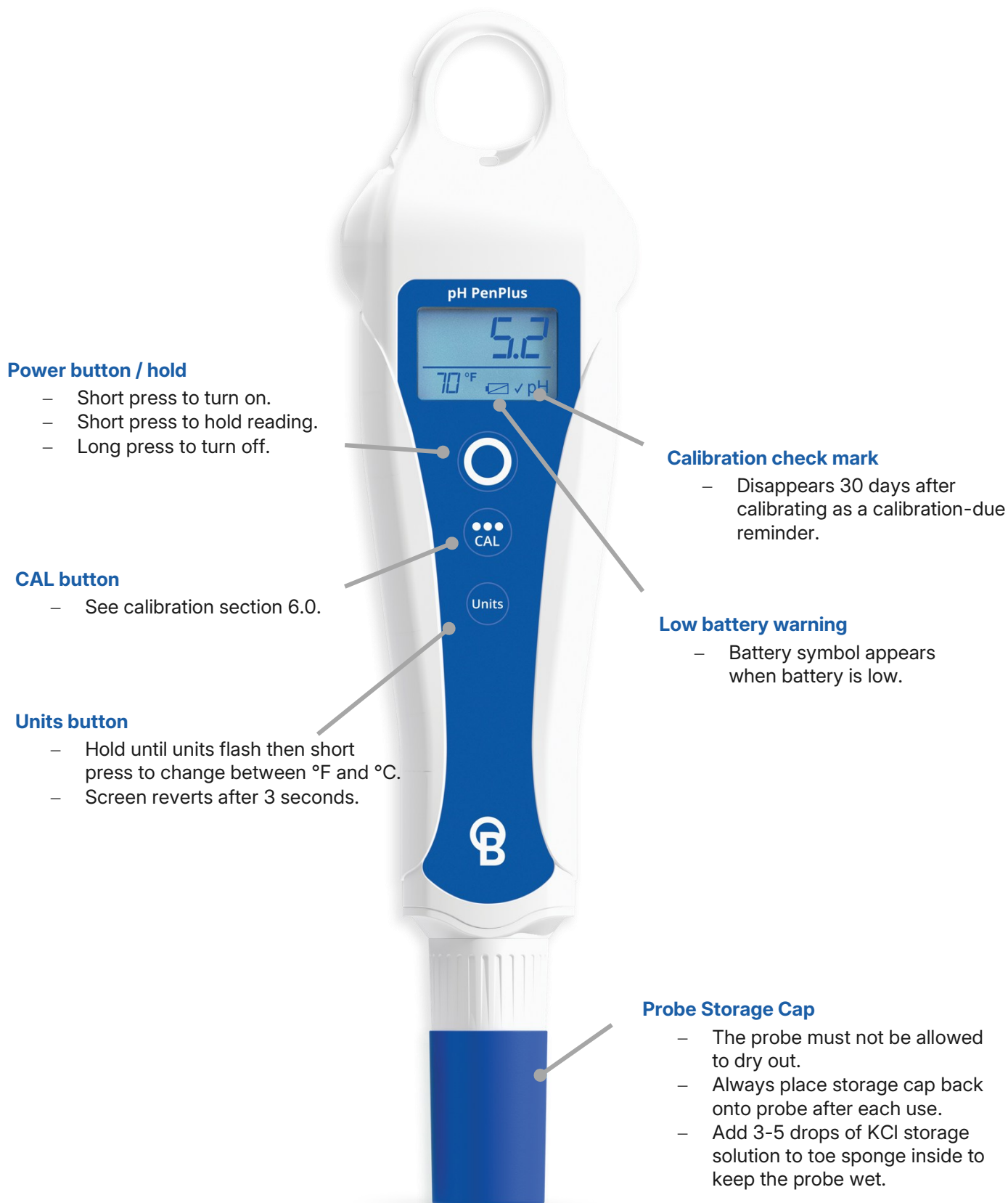
1. Contents

1.	Contents.....	2
2.	Features	3
3.	To Operate.....	4
4.	Replaceable pH Probe	5
5.	Before Use	6
6.	Calibrate in 4 easy steps.....	6
7.	Probe Replacement.....	7
8.	IMPORTANT – pH PenPlus Probe Care	8
9.	Cleaning	9
10.	Battery Replacement	9
11.	Hydration.....	10
12.	Calibration.....	11
13.	Error Messages.....	12
14.	Troubleshooting Guide	13
15.	Technical Specifications	14
16.	Bluelab Probe Care Kit – pH	15
17.	Bluelab pH Probe KCl Storage Solution	15
18.	Bluelab Limited Warranty	16
19.	Contact Details.....	17

2.Features

- ✓ Replaceable pH/temperature probe
- ✓ Screw-cap probe design for quick replacement
- ✓ Double-junction pH probe for reliable measurements
- ✓ IP68 dustproof and waterproof rating
- ✓ 2-year limited warranty (6 months for probe)
- ✓ KCl-filled silicone storage cap with internal sponge maintains probe hydration
- ✓ Temperature in °C or °F
- ✓ Integrated lanyard
- ✓ Hold-reading function
- ✓ Bright backlit display for easy reading
- ✓ Simple 2-point calibration with 30-day reminder
- ✓ Auto-off function to conserve battery
- ✓ Low battery indicator
- ✓ Automatic Temperature Compensation (ATC)
- ✓ Successful calibration indicator
- ✓ Compact handheld design

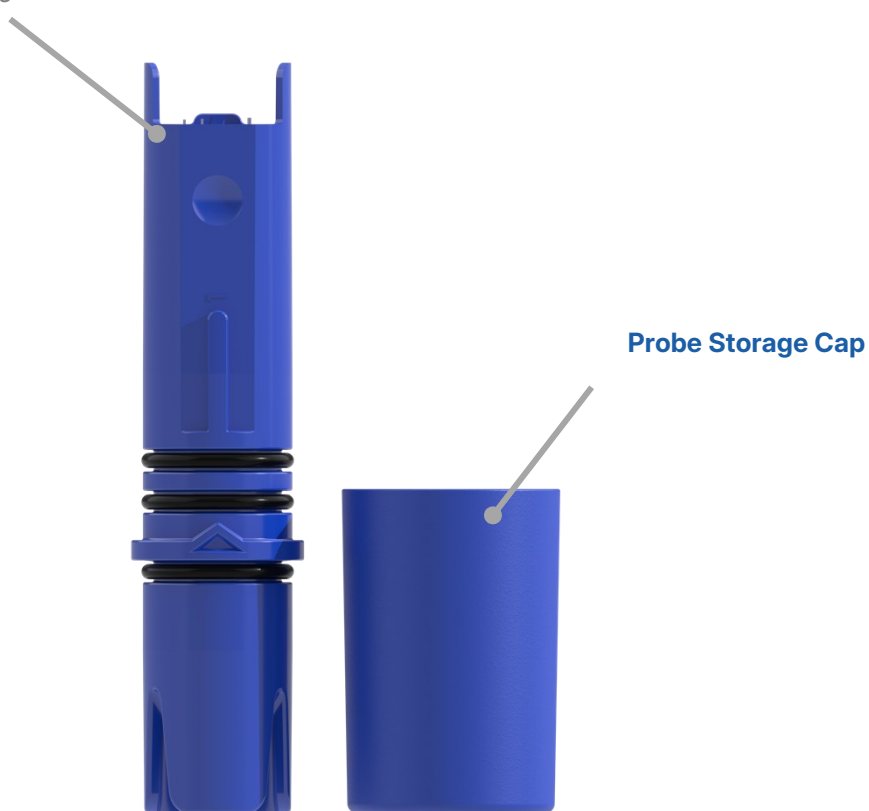
3. To Operate



4. Replaceable pH Probe

Replaceable pH Probe

- Replace when damaged or when probe can no longer be calibrated.
- Always store in cap with KCl solution.
- *Pro tip: Keep a spare nearby to minimise downtime.*



Salt crusting around the probe tip is normal. Rinse under tap water and hydrate.

5. Before Use



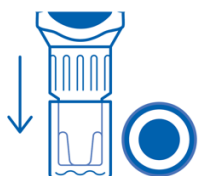
1. Hydrate

Remove cap from pH pen & place probe tip in solution sachet. Leave for 24 hours.

2. Calibrate

Calibrate to two pH points using the instructions below.

6. Calibrate in 4 easy steps



1. Remove storage cap
2. Press power button to turn on



3. Calibrate to pH 7

Open pH 7.0 Calibration Solution Sachet. Place probe tip in sachet. Hold 'Cal' button until 'CAL' displays, then release.

Wait until '0000' stops flashing and 'CAL 7' displays. Rinse probe in fresh tap water.



4. Calibrate to pH 4

Repeat step 3 with the pH 4.0 Calibration Solution Sachet.

7. Probe Replacement

The Bluelab pH PenPlus features a replaceable pH/temperature probe — the Bluelab pH ProbePlus (SKU: PROBPLUSPH). When your probe has reached the end of its service life, simply swap it out rather than replacing the entire pen.

Replacement probes are available from your Bluelab retailer or at [bluelab.com](https://www.bluelab.com).

How to replace the probe

1. Turn the pen off.
2. Remove probe storage cap.
3. Unscrew the collar.
4. Pull out the existing probe until it detaches.
5. Insert the replacement probe and screw the collar in clockwise until firmly and securely attached.
6. Calibrate the pen as described in section 12 before taking measurements.
7. *Pro tip: If you keep a spare probe on hand, you can hydrate it 24 hours before replacing the old one for minimum downtime.*



IMPORTANT: Always hydrate and calibrate a new probe before use to ensure accurate readings.

The Bluelab pH ProbePlus comes with a 6-month limited warranty. See [bluelab.com/product-warranty](https://www.bluelab.com/product-warranty) for details.

8.IMPORTANT – pH PenPlus Probe Care

pH probes do not last forever. They age through normal use and will eventually fail. The lifetime of a probe depends on the environment it is used in and the way it is treated. To ensure you receive a long life from your probe, please follow the guide below.

Storing the pH PenPlus

When storing the pH PenPlus, the probe tip must be kept moist.

Add 3–5 drops of KCl storage solution into the sponge inside the silicone probe storage cap once a week. Never store in RO, distilled, or de-ionized water. Put the storage cap back onto the probe tip securely.

Long term storage

For long term storage, remove the storage cap and place the pen upright in a plastic container. Cover the probe tip with KCl storage solution to ensure constant hydration. Check the container regularly and top up as needed.

If the probe has been accidentally allowed to dry out

The probe must be hydrated for 24 hours in KCl storage solution (never use RO, distilled, or deionised water). Following this, carry out a calibration to check if the probe has already suffered permanent damage.

Important

DO NOT let the probe tip dry.

DO NOT knock the pen; this will break the external glass bulb or internal glass tube.

DO NOT touch the glass bulb with your fingers as this will contaminate the glass.

DO NOT plunge a cold probe into a hot liquid (or vice versa) — sudden temperature changes can crack the glass and permanently damage the probe.

DO NOT soak or rinse the pH probe in RO (Reverse Osmosis), distilled, or de-ionized water. Pure water changes the chemistry in the reference, causing the probe to die.

DO NOT immerse in oils, proteins or suspended solids that will leave a coating on the glass bulb.

9. Cleaning

To ensure accurate readings, the probe needs to be rinsed in water before replacing the storage cap and cleaned regularly using the following instructions.

1. Rinse probe tip under fresh water.
2. Fill a small container with clean water. Add a small amount of Bluelab pH Probe Cleaner or mild detergent (dishwashing liquid).
3. Gently stir the probe tip in the mixture. Ensure you do not 'knock' the pen on the side of the container as this may cause damage to the glass probe. Rinse well under fresh running water to remove all traces of detergent.
4. If the probe requires removal of heavy contamination: gently brush around the glassware with a few drops of Bluelab pH Probe Cleaner or mild detergent and a soft toothbrush.
5. Rinse well under fresh running water to remove all traces of the detergent mixture.

Calibration is required after every clean. See section 6.0. Replace the silicone probe storage cap onto the probe.

10. Battery Replacement

The pH PenPlus is powered with 1 x AAA alkaline battery. Do not use rechargeable batteries. A low battery warning is indicated by a battery symbol appearing on screen. Only remove the battery cap when the battery requires changing. Battery life is expected to be 350 hours.

1. Remove old battery: Undo battery cap fasteners. Remove battery cap and tip out the old battery.
2. Check for corrosion: Flat batteries may leak and cause corrosion. Check battery contacts and the battery for any sign of corrosion. Clean battery contacts if corrosion is found before proceeding to step 3.
3. Fit new battery: Insert the new battery positive (+) end down into the body.
4. Ensure waterproof battery cap seal is clean: The seal will fail if any dirt is present.
5. Replace battery cap: Tighten fasteners on battery cap until there is no space left between the cap and body. This ensures the unit remains 100% waterproof.

11. Hydration

Hydrate the pH PenPlus probe in Bluelab pH Probe KCl Storage Solution before first use and after cleaning to improve reading response speed.

IMPORTANT Never use RO (Reverse Osmosis), deionized or distilled water. Pure water changes the ions, causing the probe to die.

1. Unscrew and remove the silicone probe storage cap.
2. Place the pH PenPlus upright in a small plastic container.
3. Add enough Bluelab pH Probe KCl Storage Solution to submerge the probe tip.
4. Leave to soak for at least 24 hours.
5. After hydration, always rinse the probe tip in fresh water, then calibrate the pH PenPlus to ensure accuracy. See section 8.0.

12. Calibration

pH calibration is required before first use to ensure the first reading is accurate. Calibration is also required when:

- The check mark/tick has disappeared from the LCD screen (30 days after last calibration)
- The reading is different from what you expected
- After cleaning and hydration
- After replacing the probe

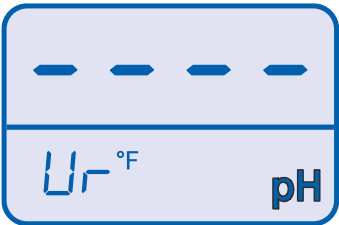
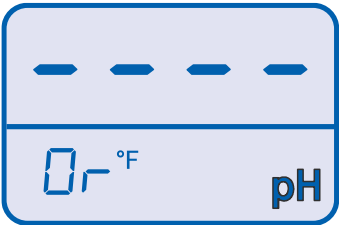
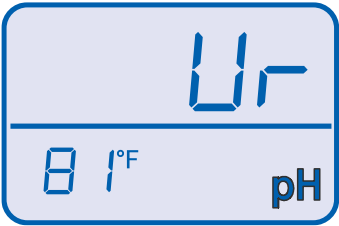
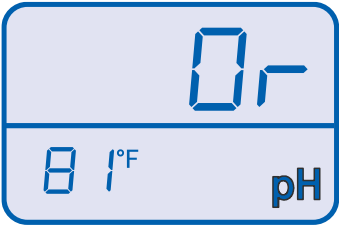
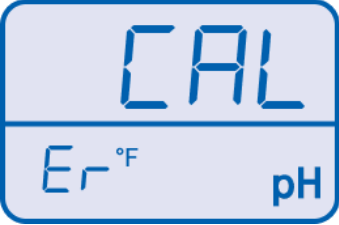
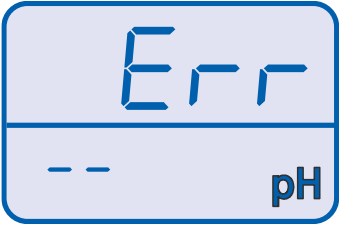
pH 7.0 and pH 4.0 solutions are required for calibration. You may also calibrate using pH 7.0 and pH 10.0 if your readings will normally be higher than 7.0 pH.

1. Excluding first use, clean pH PenPlus probe with Bluelab pH Probe Cleaner and rinse well (see section 5.0). Press the power/hold button to turn on.
2. Place probe tip in fresh Bluelab pH 7.0 Calibration Solution.
3. Always 7 first!
4. Long press the CAL button until 'CAL' is displayed. Release button. The flashing display indicates calibration is in progress — leave the probe in solution while it flashes. When flashing stops, 'CAL' confirms the calibration point is complete.
5. Rinse probe tip in clean tap water and gently shake off excess water.
6. Place probe tip in fresh Bluelab pH 4.0 or pH 10.0 calibration solution.
7. Long press the CAL button until 'CAL' is displayed. Release button. Leave the probe in solution while the display flashes. When flashing stops, 'CAL' confirms the calibration point is complete.
8. A check mark will be displayed at the bottom of the screen to indicate a successful calibration. It will disappear after 30 days to indicate calibration is required.

IMPORTANT: The pH PenPlus must always be calibrated to 2 points. Always calibrate to pH 7 first, then pH 4 or 10. The pen will not hold calibration if only calibrated to pH 7.0.

13. Error Messages

The following error messages may appear on the display:

Display	Meaning
	Temperature under range or no Probe connected
	Temperature over range
	pH under range
	pH over range
	pH calibration failed
	Hardware error

14. Troubleshooting Guide

Trouble	Reason	Correction
Drift – readings slowly varying	Glassware not clean	Clean glassware, hydrate, and calibrate.
	Wick contaminated or blocked	Soak probe in KCl storage solution for 24 hours and retest. Do not measure proteins or oils. Replace probe.
	Glassware aged	Replace probe.
Displays similar pH in all buffers	Glassware broken	Replace probe.
Unsuccessful calibration	Buffers inaccurate	Replace buffers.
	Glassware not clean	Clean glassware.
	Glassware aged	Replace probe.
	Probe not hydrated	Soak probe in KCl storage solution for 24 hours and retest.
Noisy – readings jumping	Contact zone not immersed	Lower pen into solution at least 2cm / 1".
Displays pH 7 for all buffers	Broken glassware	Replace probe.
Incorrect reading after successful calibration	Ground loop (process systems)	Remove sample from environment and measure in glass beaker. May require electrical circuitry to be checked.
	Wick blocked	Soak probe in KCl storage solution for 24 hours and retest. Do not measure proteins or oils. Replace probe.

15. Technical Specifications

Specification	Value
Measurement range	0.0 – 14.0 pH
Resolution	0.1 pH
Accuracy (at 25°C / 77°F)	± 0.1 pH
Temperature resolution	1°C / 1°F
Temperature accuracy (at 25°C/77°F)	± 1°C / ± 2°F
Temperature compensation	Automatic (ATC)
Operating temperature	0 – 50°C / 32 – 122°F
Operating environment (solution)	0.2 EC and above
Calibration	Manual, 2-point (pH 7.0 + pH 4.0 or pH 10.0)
Units	pH, °F and °C
Waterproof rating	IP68
Power source	1 x AAA alkaline battery
Battery life	Approximately 350 hours
Warranty – pen	2-year limited warranty
Warranty – probe	6-month limited warranty

16. Bluelab Probe Care Kit – pH

The instrument is only as accurate as the probe is clean!

Probe cleaning is one of the most important parts of owning and operating any Bluelab meter, monitor or controller. If the probe is contaminated (dirty) it affects the accuracy of the reading displayed.

Bluelab Probe Care Kit – pH contains:

- Probe care instructions
- 3 x plastic cups
- 20ml single-use Bluelab Solution Sachets: 2 each of pH 7.0, pH 4.0, and KCl
- Bluelab pH Probe Cleaner
- Toothbrush (pH probe cleaning instrument)



Bluelab Probe Care Kit – pH

17. Bluelab pH Probe KCl Storage Solution

The perfect solution to store and hydrate your Bluelab pH products.

Bluelab pH Probe KCl Storage Solution is designed to increase response time and maximize the life of Bluelab pH pens and pH probes. For best results, use the KCl solution to store the pH PenPlus probe after use and hydrate monthly.

Use Bluelab pH Probe KCl Storage Solution with:

- Bluelab pH PenPlus
- Bluelab pH Pen
- Bluelab Soil pH Pen
- Bluelab pH Probes
- Bluelab Soil pH Probes



Bluelab pH Probe KCl Storage Solution

18. Bluelab Limited Warranty

Bluelab Corporation Limited (Bluelab) provides a warranty on its products (Bluelab pH PenPlus) under the following terms and conditions:

How Long Does Coverage Last?

Bluelab warrants the Bluelab pH PenPlus for a period of 24 months from date of purchase by the original purchaser or consumer. The Bluelab pH ProbePlus is warranted for 6 months. Proof of purchase, to Bluelab's sole satisfaction, is required for the warranty to be effective (store sales receipt showing model number, payment and date of purchase). This warranty is non-transferable and terminates if the original purchaser/consumer sells or transfers the Product to a third party.

What is Covered?

Bluelab warrants the Product against defects in material and workmanship when used in a normal manner, in accordance with Bluelab instruction manuals. If Bluelab is provided with valid proof of purchase and determines the Product is defective, Bluelab may, in its sole discretion either (a) repair the Product with new or refurbished parts, or (b) replace the Product with a new or refurbished Product.

Any part or Product that is replaced by Bluelab shall become its property. If a replacement part or Product is no longer available or no longer being manufactured, Bluelab may replace it with a functionally-equivalent part or product.

What is NOT covered?

This warranty does not apply to equipment, component or part not manufactured or sold by Bluelab, and expressly excludes:

- Cosmetic damage such as stains, scratches and dents
- Damage due to accident, improper use, negligence or careless operation not in accordance with Bluelab instruction manuals
- Damage caused by use of parts not assembled/installed as per Bluelab instructions
- Damage caused by use of parts or accessories not produced or recommended by Bluelab
- Damage due to transportation or shipment of Product
- Product repaired or altered by parties other than Bluelab or its authorised agents
- Product with defaced, missing or illegible serial numbers
- Products not purchased from Bluelab or a Bluelab-authorised distributor or reseller

How Do You Get Service?

To begin a warranty claim you must return the Product to the point of purchase with valid proof of purchase. You can also return the Product to any Bluelab-authorised distributor or reseller with valid proof of purchase.

Limitation of Liability & Acknowledgments

TO THE MAXIMUM EXTENT PERMITTED BY LAW, THIS WARRANTY AND THE REMEDIES SET OUT ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES AND REMEDIES (ORAL OR WRITTEN, EXPRESS OR IMPLIED). BLUELAB IS NOT RESPONSIBLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL LOSS OR DAMAGES. SOME JURISDICTIONS DO NOT ALLOW EXCLUSION OR LIMITATION FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY.

Governing Law; Authority

This warranty is governed by the laws of the state or country where Product is purchased. No Bluelab distributor, employee or agent is authorised to modify, extend or otherwise change the terms of this warranty.

Register your product online at bluelab.com/product-registration

19. Contact Details

Let's talk.

If you need assistance or advice – we're here to help you.

North America: 1-855-525-8352

Asia Pacific: +64 7 578 0849

Europe: +31 (0) 85 05 16 848

Email: support@bluelab.com

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Bluelab Corporation Limited
8 Whiore Avenue, Tauriko Business Estate
Tauranga 3110, New Zealand