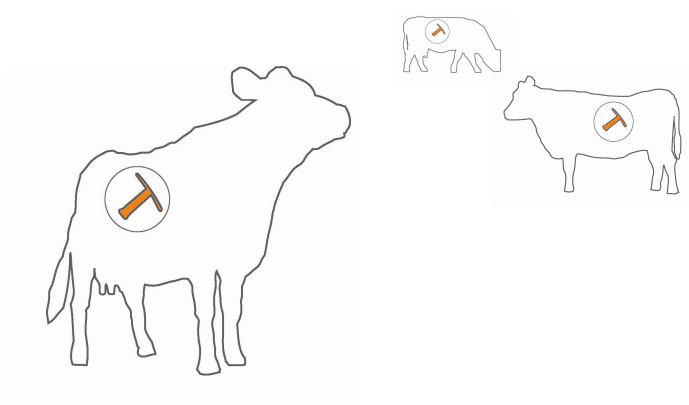


User Guide

Kahne Wand

KW1



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Foreword

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Kahne Limited

Level 1, 64 Cook Street
Auckland 1010
New Zealand

Phone +64 9 354 4720

Fax +64 9 354 4725

web www.kahneanimalhealth.com

emailcontact@kahneanimalhealth.com

Statements of Compliance

1. The KW1 Series Wand complies with FCC
2. The Kahne KW1 Series Wand complies with FCC Part 15 Subpart C. Operation is subject to the following two conditions: (1) these devices may not cause harmful interference, and (2) these devices must accept any interference received, including interference that may cause undesired operation.

NOTE:

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

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. 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.
- Consult the dealer or an experienced radio/TV technician for help.



Warranty

Thank you for purchasing this Kahne product. To get maximum use of the features of your new product we recommend that you follow a few simple steps:

- Read the guidelines for safe and efficient use.
- Read all the terms and conditions of your Kahne Warranty.
- Save your original receipt. You will need it for warranty repair claims. Should your Kahne product need warranty service, return it to the dealer from whom it was purchased or contact Kahne.

Our Warranty

Kahne warrants this product to be free from defects in material and workmanship at the time of its original purchase by a consumer, and for a subsequent period as stated in the following table:

Product	Warranty Period
Kahne Wand	One year from the date of purchase

This warranty is expressly limited to the original owner who purchases the equipment directly from Kahne or from an authorized Kahne dealer.

What we will do

If, during the warranty period, this product fails to operate under normal use and service, due to improper materials or workmanship, Kahne subsidiaries, authorized distributors or authorized service partners will, at their option, either repair or replace the product in accordance with the terms and conditions stipulated herein.

Conditions

1. The warranty is valid only if the original receipt issued to the original purchaser by the dealer, specifying the date of purchase, is presented with the product to be repaired or replaced. Kahne reserves the right to refuse warranty service if this information has been removed or changed after the original purchase of the product from the dealer.
2. If Kahne repairs or replaces the product, the repaired or replaced product shall be warranted for the remaining time of the original warranty period or for ninety (90) days from the date of repair, whichever is longer. Repair or replacement may be via functionally equivalent reconditioned units. Replaced faulty parts or components will become the property of Kahne.
3. This warranty does not cover any failure of the product due to normal wear and tear, damage, misuse, including but not limited to use in any other than the normal and customary manner, in accordance with Kahne's user guide for use, faulty installation, calibration and maintenance of the product, accident, modification or adjustment, events beyond human control, improper ventilation and damage resulting from liquid or corrosion.
4. This warranty does not cover product failures due to repairs, modifications or improper service performed by a non-Kahne authorized service workshop or opening of the product by non-Kahne authorized persons.
5. The warranty does not cover product failures which have been caused by use of non-Kahne original accessories.
6. This warranty becomes void if a non-Kahne approved AC/DC adaptor or battery is used.
7. Tampering with any part of the product will void the warranty.
8. Kahne makes no other express warranties, whether written or oral, other than contained within this printed limited warranty. To the fullest extent allowable by law all warranties implied by law, including without limitation the implied warranties of merchantability and fitness for a particular purpose, are expressly excluded, and in no event shall Kahne be liable for incidental or consequential damages of any nature whatsoever, however they arise, from the purchase or use of the product, and including but not limited to lost profits or business loss.

9. Some countries restrict or do not allow the exclusion or limitation of incidental or consequential damage, or limitation of the duration of implied warranties, so the preceding limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which may vary from country to country.

For Your Safety

Read these simple guidelines. Ignoring these guidelines may be hazardous.

- **USE SENSIBLY**

Use only as per this user guide.

This product is not weather proof, do not operate under wet conditions

- **USE KAHNE APPROVED SERVICE**

Only approved service personnel must work on this product.

- **HEALTH AND SAFETY IN THE WORKPLACE**

Kahne does not guarantee user safety. In hazardous environments, an appropriate Health and Safety plan should be in place.

Receiver Components

Components supplied with the Kw:

Kahne Wand

6 × C batteries (located inside handle of wand)

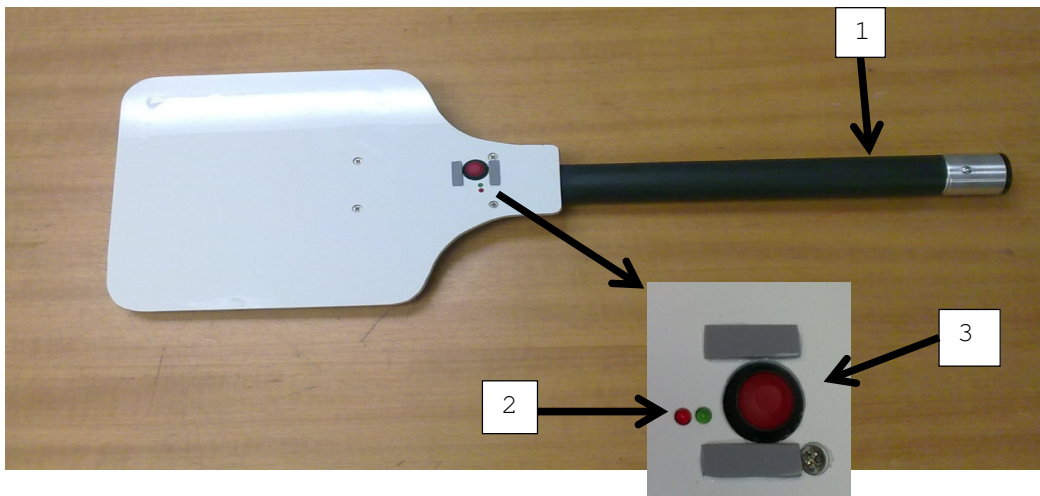
User guide

Please check that all these components have been supplied and contact your dealer or Kahne if any of the components are missing.

Description

The KW1 handheld Wand device can trigger the bolus in-vivo to download all logged data to a waiting field receiver a short distance away.

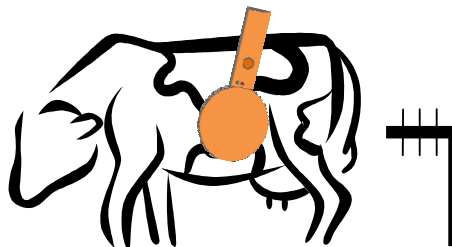
1. Product Description



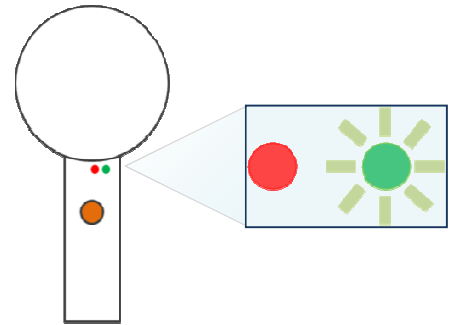
- 1 Handle
- 2 L.E.D status indicators
- 3 Power button

2. Setup to receive data from *Trigger download*

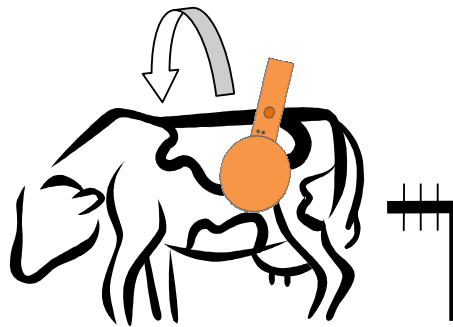
2.1 To trigger the download, hold the face of the Kahne Wand less than 10cm from the rumen.



2.2 Press and hold down the “on/off” button of the Kahne Wand until the red light goes out and the green light stays on



2.3 You may need to wave the head of the Kahne Wand across the back and sides of the animal to trigger the bolus, while holding down the “on/off” switch



2.4 The data will stream into the software (it can be observed in the Real Time window)

Real Time Table View							
Index	Bolus ID	Animal ID	Date	Time	pH	Pressur...	Temp(C)
0	1008000541	1	04 Nov 2008	13:48:22	7.00	999.1	21.36
1	1008000541	1	04 Nov 2008	13:49:22	7.00	998.9	21.36
2	1008000541	1	04 Nov 2008	13:50:22	7.00	999.0	21.38


ClearClose

IMPORTANT ADVICE TO THE USER:

- The logged data on the bolus will be deleted after **2 hours** from the **last** trigger download attempt.
- Should the trigger download attempt not be successful, try again within the **next** 2 hours, but no sooner than 15 minutes from the last attempt
- A successful trigger download can take up to 10 minutes to transmit the maximum storage capacity of 11,955 data points from the bolus
- The software can manage only **ONE** Bolus downloading data at a time

IMPORTANT NOTE TO THE USER:

To ensure the Trigger Download functions correctly, Kahne advises the following precautions:

- **Download data from ONE bolus at a time**
- Ensure there is sufficient space in the database (max 250,000 data points). Click on database icon 
- **Export** and **Delete** unwanted data from the Kahne database (Select *View > Logged Data Table*, enter the start and end dates, and bolus ID. Select *Export* to save data. Select *Delete* to delete data from the database).
- This RFID function operates on 134.2KHz. Other RFID systems operating \pm 30KHz may trigger this function

3. Replace batteries

- 3.1 Undo screw at base of handle
- 3.2 Pull off base of handle
- 3.3 Replace batteries with -ve end at base and +ve end at head of handle.
- 3.4 Slide base of handle back on and insert screw.

Troubleshoot

The Kahne software is operating slowly (this may occur during trigger or manual download)

- Do you enough free memory on your computer, i.e. 150MB Hard drive and 256MB free RAM?
- After approximately 220,000 data points, the Kahne Database may operate more slowly. We recommend Exporting and deleting data from the Kahne database (p.22 of KB1000 Bolus Manual)

Care and Maintenance

Your Kahne product is of superior design and quality and should be treated with care. When using your Kahne product:

- Keep it and all its parts and accessories out of the reach of small children.
- Open and close the wand handle with extreme care; careless handling of the device may cause damage.
- Do not drop, knock or shake as this could lead to internal damage.
- Do not use harsh chemicals, cleaning solvents or strong detergents for cleaning. Wipe with a soft cloth slightly dampened with a mild soap-and-water solution.

Specifications

Kahne Wand - KW1	
Power	6× 1.5V C Size Cells =9V
Operating Frequency	134.2 kHz
Enclosure size	495mm(l) x 200m(w) x 40mm(h)
Enclosure casing	PVC, Aluminium
Environmental operating conditions	-20°C to 70°C