



eShepherd™



Virtual Fencing. Precision Control.

eShepherd virtual fencing puts you in control of your cattle — bulls included, without lifting a post or rolling out a wire.

THE NEXT GENERATION OF INNOVATION.

Built for the realities of grazing.

24/7

Herd Visibility

Real-time herd insights, 24/7. Fence, monitor, and move cattle from anywhere for complete control and peace of mind.

±1m

GPS Accuracy

Make better use of every hectare. Prevent overgrazing, tap into underused land, and improve pasture quality.

3-10 day

Cattle Training

Cattle quickly link the audio cue to the virtual boundary making training quick and stress-free.

7-10 year

Working Life

Using proven solar technology, robust materials, and minimal moving parts.



Suitable for all cattle breeds over 200kg

ADJUSTABLE FIT WITH BREAKAWAY SAFETY

Over the air updates

Self-sufficient solar powered

NO BATTERY CHANGES

IPX7 water proof casing

3 YEAR WARRANTY

Precision grazing control

MANAGE YOUR CATTLE EVEN WITH POOR CONNECTIVITY

Internal audio cue guiding livestock location

Easy to use App & Web dashboard

USE YOUR PHONE AND/OR LAPTOP

Integrated RFID tag

24/7 LOCATION & TRACEABILITY

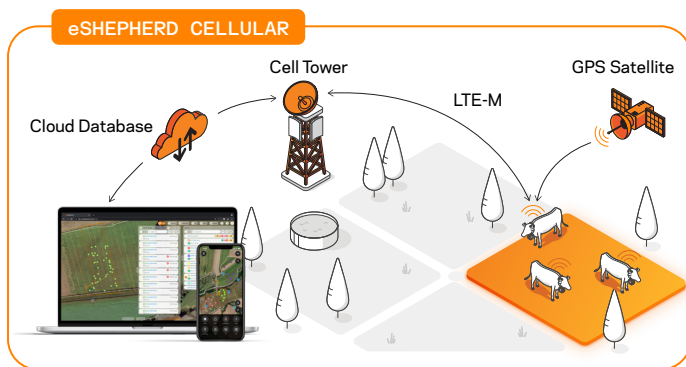


85+ years of
Gallagher trust

Own your virtual fencing. With eShepherd, you invest when it suits your cash flow. No unpredictable subscriptions, just proven performance and reliability backed by Gallagher's legacy.

Choose from two proven options

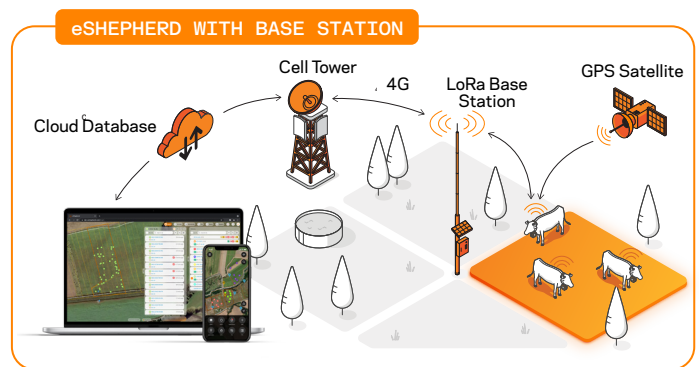
Set inclusion and exclusion zones, schedule moves, get animal alerts, see grazing heatmaps and more.



Ideal for reliable cellular coverage

Just 1-2 bars usually enough

No base station needed



Best for limited cellular coverage

Line-of-sight LoRa technology

Base stations positioned for cellular or satellite connectivity

Forget the daily fence shifts and long musters

Manage grazing and rotations from your phone and enjoy measurable impacts on productivity, sustainability, and animal welfare.



We'll assess your property and recommend the best comms option.

Then, we'll help you set up your account and get familiar with the platform.

We'll deliver everything you need, ready to go. Our team will guide you through fitting, animal training, and using the system, and is your partner every step of the way.

Getting Started is easy.



Scan to get an instant online quote



More than virtual fencing, eShepherd is the foundational technology that unlocks a future-ready Gallagher ecosystem. Built on our market-leading expertise in electric fencing and animal management products and supported by a team committed to your success.

FIND OUT MORE



Boost weight gains



Protect the environment



Save money



Regain time

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www.agri-zoo.com – info@agri-zoo.com
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Quick Start Guide



eShepherd™

Important Information



Please read all the instructions before using the eShepherd system. Save these Instructions.

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- WARNING: The eShepherd system 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.
- In EN standard countries, this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Cleaning and user maintenance shall not be made by children without supervision.
- Young children should be supervised to ensure that they do not play with the eShepherd system.
- WARNING - Do not connect to mains-operated equipment.
- WARNING - Do not use eShepherd to create a boundary fence or to fence animals off from a roadway or other areas that contain moving vehicles. Always use physical fences at boundaries to roadways (and other areas that contain moving vehicles) and neighbouring property.
- WARNING - Risk of electric shock! When neckbands are handled, avoid touching or making physical contact with the electrodes (chains) – it is recommended to hold the neckband by the plastic housing or the top strap.
- Check with your local council and/or regulatory body for any regulations applying to use of virtual fencing systems.
- Neckbands should only be opened or repaired by a Gallagher Authorised Service Centre.
- Neckbands should only be used with animals that are greater than 200kg / 440 lbs in weight.
- The neckband contains batteries that are not replaceable. Do not attempt to open the neckband.
- Improper fitment can lead to injuries to the fitter. Do not attempt to fit a neckband to an animal if you are not confident and have the necessary experience working with cattle.
- Improper fitment can lead to injuries to an animal and/or improper functioning of the eShepherd system resulting in poor pulse stimulus delivery. Neckbands that are fitted too tightly can lead to pressure necrosis. If neckbands are fitted too loosely, there is an increased risk that the neckband may fall off or lead to injury to the animal.
- Neckbands track cattle movements, but they DO NOT replace direct visual inspection and good animal husbandry or stock management.
- When neckbands are not in use, virtual paddocks that are associated with the neckband should be removed and the neckband should be turned off. This will preserve the internal battery and ensure that the neckband is unable to deliver a pulse when being handled.
- A neckband should not have an active virtual paddock at the time of fitment or removal.
- Do not fit neckbands on lame or injured animals without first seeking professional assessment from a vet.
- We recommend inspecting cattle at least every 30 days to ensure that there are no lesions or sores and to adjust the neckband such that it does not become too tight or too loose as an animal's weight changes.
- The eShepherd system does not provide information on the following:
 - The extent of feed or water that is available in a virtual paddock.
 - Whether animals have become caught on physical fences or other hazards.
 - If the neckband is becoming too tight causing skin damage or too loose due to animal growth or change in body condition.
- Regularly inspect neckband housing and Base Stations for any damage. If damaged in any way, immediately cease use and contact your Gallagher Authorised Service Centre for repair in order to avoid a hazard.
- When neckbands are handled, care must be taken to avoid touching or making physical contact with the chain electrodes.

Working with Cattle

- **WARNING** - Do not attempt to fit or remove a neckband unless you are trained and experienced in cattle yard operations and have the animal restrained in a fully operational cattle crush.
- Remove any obstructions around the crush that may result in pressure and crush injuries to personnel or the animal.
- Fitment of the neckbands to animals can create unpredictable behaviour. Ensure that there is a suitable fence or barrier between personnel fitting neckbands and the animals.
- Always ensure that a first aid kit is close at hand.
- Always refer to the relevant safe work procedures in your state or territory for farming, and cattle handling and movement. Do not fit neckbands to animals that are highly agitated. Neckband fitment will be safer if cattle are in a calm state. We recommend allowing plenty of time for fitment and that the fitment process is not rushed.

Transportation and Storage



The eShepherd Neckband is classed as a dangerous goods item under UN regulations (UN3481) as it contains a lithium ion battery. As such, it requires special packaging labelled for transportation that includes the label shown below. We have taken care in packaging the neckbands to ensure that they comply with the IATA (International Air Transport Association) regulations, which will allow for their movement via air, sea, rail, and road.

It is recommended that the neckbands remain in this packaging and are stored in a dry location until fitting to animals. When the neckbands are not in use, virtual paddocks should be removed and the neckband should be placed into hibernation and returned to the supplied packaging, making them compliant for movement around the property or movement to another property. This will preserve the internal battery and ensure the neckband is unable to deliver a pulse. For full guidelines on compliance requirements, please consult your local code for the transport of dangerous goods by road and rail.

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Instructions are also available on the eShepherd website.

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How the eShepherd system works

A virtual fence is created in the eShepherd software and sent to the animal's neckbands. Animals are trained to understand and stay within virtual boundaries. When an animal approaches the fence, the neckband emits an audio cue (beep). If the animal ignores the cue and continues towards the fence, the neckband delivers an aversive, but harmless, pulse. eShepherd cues are predictable so animals quickly learn to respond to the audio cue alone.

eS1 Neckband

The eShepherd Neckband tracks the position of each animal using GPS. An integrated audio device delivers tones and, if required, a custom pulse circuit delivers an aversive but harmless pulse stimulus to the animal via the two chains.

The eS1 neckbands are sold as two separate variants:



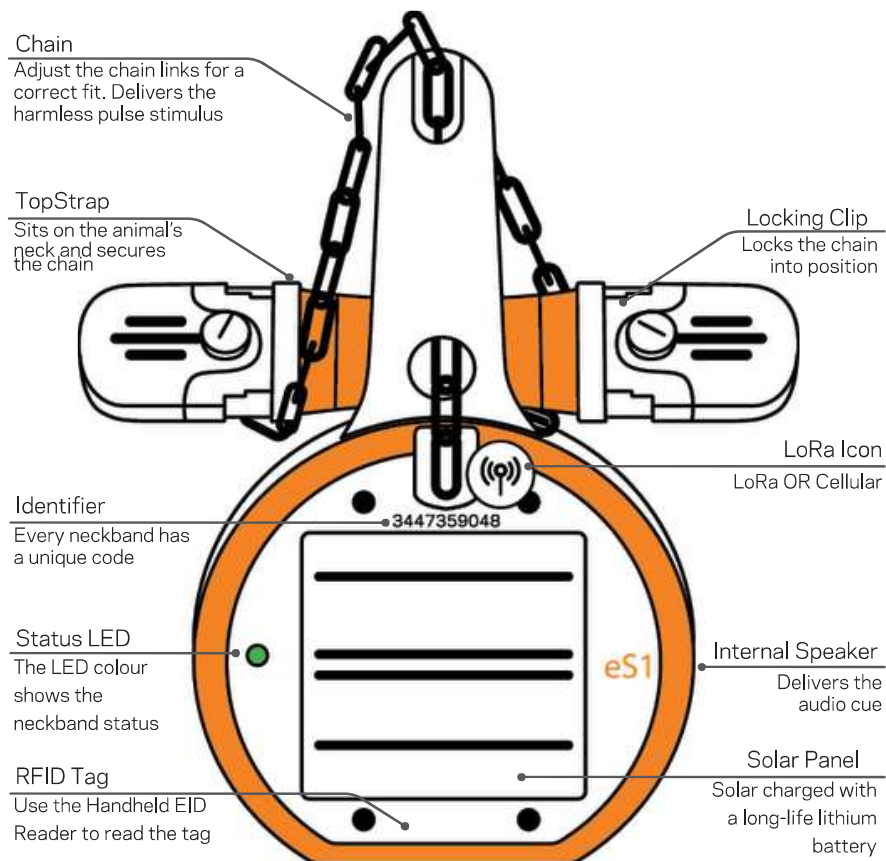
LoRa eS1 neckband

Communicates using wireless long range radio signals to an eShepherd LoRa Base Station. The neckband communicates to a cellular base station on your farm.



Cellular eS1 neckband

Communicates using a global SIM card to connect to a local cellular network. No infrastructure is required as the neckband communicates directly with the local cellular network.



eShepherd Web & Mobile Applications

01 Access the eShepherd Web App

1. Gallagher eShepherd will email you links to set your password and complete your Web App registration.
2. Log into the Web App:
www.app.eshepherd.com
3. Scan the QR code to learn more about the Web App.



Scan to learn more about the Web App

02 Install eShepherd Mobile App

iPhone



Scan to install on an iPhone

Android Phone



Scan to install on an Android

Log into the Mobile App

Alternatively, search for "eShepherd" on the App Store or Google Play Store on your mobile phone and download/install the App.

Open the App and login with your regular email and password that you use with the Web App.

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Set up the neckbands

LoRa base station installation for LoRa models only

1. To install the base station, please follow the base station installation guide.
2. When the base station is installed and operational, the neckbands can begin their system connection process.
3. Contact your eShepherd representative to confirm that the base station is online.

01 Unbox the neckbands

1. Neckbands arrive 'hibernated', in an 'OFF' state.
2. Place neckbands in a sunny spot near the yards. They solar charge when exposed to sunlight, even in hibernation. See "Battery information p. 10" for charging information.

LoRa eS1 neckbands:

Once the base station is operational, neckbands can be un-hibernated so that they can commence the network connection process to the base station.

Make sure the neckbands are within range of the base station.

02 Un-hibernate the neckbands



1. Hold the magnet near the LED for 3 seconds.
2. Listen for the rising tones (they may be faint in noisy areas).
3. When the tune ends, the LED will start blinking and the neckband is un-hibernated.

Check neckband communication

01 Neckband network connection

LoRa eS1 neckbands:

The connection process can take several hours.

Cellular eS1 neckbands:

The network connection can take anywhere from 10 minutes to over an hour.

Once the connection has been established, the LED will start blinking GREEN.

02 Check Communications via Web App

Neckbands will appear on the eShepherd Web App once the network has connected.

1. Login to the eShepherd Web App and open the Neckband menu.
2. Go to the 'Map Layers' and confirm that Neckbands - unfitted is selected.
3. In the side-panel, sort the 'Last Updated' column.
4. All neckbands should have updated their status within the last 30 minutes.

If some neckbands have not reported any status messages, check that the neckband has been un-hibernated properly.

Check the animal and environment

01 Assess the animal

An animal should be considered healthy before being fitted with a neckband:

- An animal's Body Condition Score (BCS) should not be lower than '2'.
- Do not fit a neckband to a lame animal.
- Neckbands should not be fitted to animals that have open wounds on the neck, including broken skin from rubbing due to irritation e.g. from buffalo fly.

Note: Bos Taurus bulls, for example, can develop a very broad and muscular neck, that is larger than their head. This can result in the neckband sliding over their head and falling off the animal. Please consider this limitation when attempting to manage this class of animal.

02 Ensure the environment is safe

- Do not attempt to fit or remove a neckband unless the animal is restrained in a fully operational cattle crush.
- Fitment of the neckbands to animals can create unpredictable behaviour. Ensure that there is a suitable fence or barrier between personnel fitting neckbands and the animals.
- Do not attempt to fit eShepherd neckbands unless you have appropriate training and experience to safely work cattle yards and operate a cattle crush.

Animal Welfare

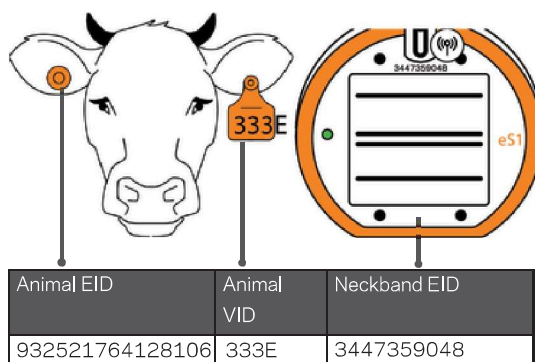
eShepherd is a virtual herding system that is based on sound animal training and welfare principles. As such, the system has been developed with predictability and control as core elements of the animal training mechanism. The sequence of an audio cue followed by a pulse is predictable and the animal can quickly learn to avoid the pulse by responding to the audio cue alone.

! IMPORTANT!

If there is a communication outage for more than 24 hours, the neckbands will stop enforcing the virtual fence boundary. When communications are back online the neckbands will resume normal operation.

Neckbands and EIDs/VIDs

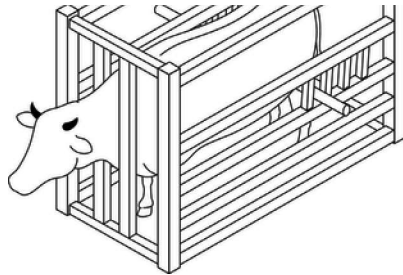
Each neckband has a unique EID tag. For traceability, link the neckband to the animal's EID or visual (ear) tag using the eShepherd app.



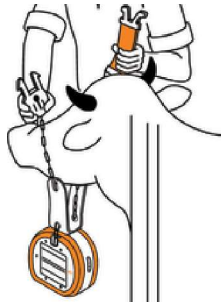
Fit the neckband

Important: Use a EID Reader to scan the chip on the neckband before fitting.

01 Secure the animal in a crush using a backing bar.



02 Unclip the buckle and position the speaker holes toward the animal's brisket.



03 Place the neckband around the animal's neck and reclip to secure.



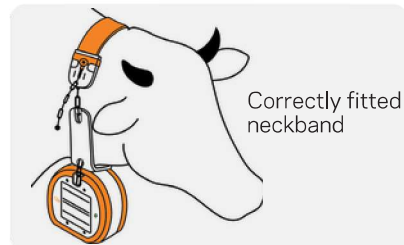
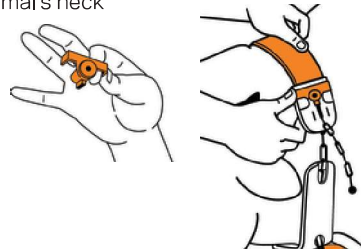
04 Adjust the chains for a proper fit. Lift the chain through the buckle slot, pull down firmly to secure, and ensure both sides are even.



05 Ensure the space between the neckband and the animal's neck ridge is 5 cm (2") for young animals and 2.5 cm (1") for mature animals.



06 Insert the locking clips from the top of the buckle, facing away from the animal's neck.



Train your Animals

Creating the Virtual Training Paddock (VTP)

Ensure the VTP is within a well-maintained physical fenced area with ample pasture and water for the 7-10 day training period.

Set up the virtual paddock line as straight as possible across the physical paddock to maintain low complexity and high predictability for the animals.

Provide accessible watering points and easily recognizable shelter within the VTP for the animals.

Ensure that watering points, feeding points, and shelter are positioned at least 15 meters away from any virtual boundary fence.

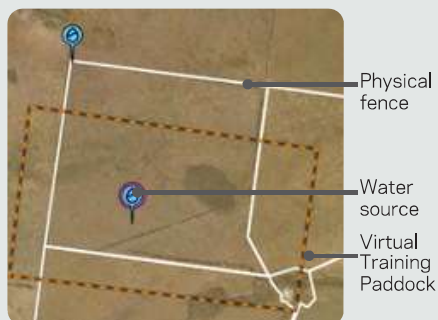
Activating the Virtual Training Paddock

Animals must be calmly grazing, walking or resting in the Inclusion Zone (IZ) before activating the VTP, as some may take up to 48 hours to acclimate.

Allow animals to approach the VTP naturally, without applying pressure or force.

It may take 7 days for all animals to interact with the VTP and demonstrate understanding.

Example of Virtual Training Paddock (VTP)



In this example:

- The VTP is designed to encourage animal interaction within a single segment.
- The VTP has a central watering source.
- Additional feed is available allowing the VTP to be moved forward to allow for more feed.
- After 2-3 days of training, edit the VTP so that the virtual fence sits on top of the physical fence line.

Tips and Troubleshooting

If the solar panels are covered in dirt, they can be cleaned with water and a soft (dish) brush or soft cloth. Do not use strong cleaning agents, petroleum-based solvents or abrasive cleaning aids.

Battery information

- The eShepherd Neckband is powered by a long-life lithium based battery which is not user replaceable. A Gallagher Authorised Service Centre must be used for battery replacement or disposal. Do not attempt to open or dispose of a neckband.
- This battery is charged by the integrated solar panels and does not need to be, nor can it be charged in any other way. Place in the sunlight for 3 days to charge the battery.
- If the Neckband Status LED indicator is flashing RED twice, then the battery capacity is very low and the neckband is not ready for virtual fencing operations. Leave the neckband exposed to full sunlight for 3 days.
- When storing the neckband, virtual paddocks associated with the neckband should be removed and the neckband should be turned off and placed in a safe, sunny location.
- Recharge the battery using sunlight when planning to un-hibernate a neckband.

Battery charging times:

- Placing the Neckband into full sun for charging is ideal. In the Southern Hemisphere, this means facing north, while in the Northern Hemisphere, it means facing south.
 - In winter or poor sun orientation: Up to 1 week charging may be needed.
 - In summer with full sun orientation: 2-3 days may be sufficient.
- If battery fluid comes in contact with:
 - Eyes - Flush the affected area with water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers. Call a physician.
 - Skin - Immediately flush with water and/or soap.

Neckband status LED

The eShepherd neckband status LED indicator can show a number of different conditions of the device.

LED	Condition
	Battery charge is OK GPS/GNSS ready Network Connection OK
	Neckband initialising Attempting to connect to network
	When flashing - TWO times: Battery is low Do not fit to an animal
	When flashing - ONE time: Neckband is not ready GPS/GNSS not ready Has not connected to the network Do not fit to an animal
	The neckband has detected the presence of the magnet. When the magnet is in position, the neckband will emit a series of five beeps at one-second intervals and then turn off the neckband.

Product Specifications

Communications	
LoRa Communication (USA/Canada):	902 - 904 MHz
LoRa Communication (AU/NZ/INT):	902 - 928 MHz
GNSS:	Receiver only
WiFi	2.4GHz
Cellular Bands (Global)	1,2,3,4,5,8,12,13,18,19,20,26,28

Electrical Specifications	
Current consumption	30mA
Battery type	Lithium
Battery voltage (nominal)	3.2V
Battery capacity	12Ah

Physical	
Dimensions:	210mm (L) x 90mm (W) x 350mm (H)
Weight:	2.7 kg / 5.9lbs (including chains)

Environmental	
Ingress protection:	IPX7
Operating temperature range:	-10 to +70 oC / 14 to 158 oF

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Approvals & compliance standards

FCC

This device complies 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 undesired operation.

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 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.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected, where applicable.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Changes or modifications not expressly approved by Gallagher Group Limited could void the user's authority to operate the equipment.

Contains FCC ID: 2AC7Z-ESPC3MINI1,ISED ID: 21098-ESPC3MINI1.

FCC ID: XPUUBX19KM01, ISED ID: 8595A-UBX19KM01

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Responsible party (contact for FCC matters only):

Gallagher Group Limited
181 Kahikatea Drive,
Melville, Hamilton, 3204
New Zealand

[Contact Us | Gallagher New Zealand](#)

IndustryCanada

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

L'appareil est conforme aux normes RSS (Règlements sur le spectre radio) sans licence émise par Industrie Canada. L'exploitation est autorisée aux deux conditions suivantes : (1) L'appareil ne doit pas produire de brouillage; (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Radiation Exposure Statement:

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

L'équipement est conforme aux limites d'exposition aux radiations établies par ISED pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.



This product is categorized as eWaste and so cannot be disposed of with other waste or placed in landfill. Do not dispose of the neckband in a fire. Please refer to your local council, state or distributor for disposal advice. This symbol on the product indicates that this product and with special care, the battery, must not be disposed of with other waste.

Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city recycling office or the dealer from whom you purchased the product.