

TICKLESS[®]

ULTRASONIC TICK AND FLEA REPELLENT

TICKLESS is a revolutionary product, environmentally friendly, non-toxic, completely harmless to human and pets, effective against ticks and fleas.



Parasites around us

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1. Parasites around us/ The tick

The tick

- **Parasitic arachnids**
(Joint-legged invertebrate animals)
- **Over 100 million years old**
- **Roughly 900 species**
 - Can live up to 2-3 years
 - **Ticks with infections** in their bodies are **better survivors** in any climate or conditions
- **Widely distributed around the world:
found wherever their host species occur**
- **Spreads several dangerous diseases**



1. Parasites around us/ The tick

Disseminated diseases

Pets

► Lyme-disease / Borreliosis

- Europe, North America, temperate Asia
- No vaccines available

► Babesiosis

- Currently can be found in Europe
- May be fatal
- No vaccines available

► Canine Ehrlichiosis

- Found worldwide
- The Brown Dog Tick, Lone Star Tick, and American Dog Tick
- No vaccines available

► Rocky Mountain spotted fever

- More commonly known tick-borne diseases to affect dogs and humans

People

► Lyme-disease / Borreliosis

- Europe, North America, temperate Asia
- No vaccines available

► Anaplasmosis

- The most widespread tick-borne infection in people in Europe
- Transmitted by Ixodes ticks

► Tick-borne encephalitis (TBE)

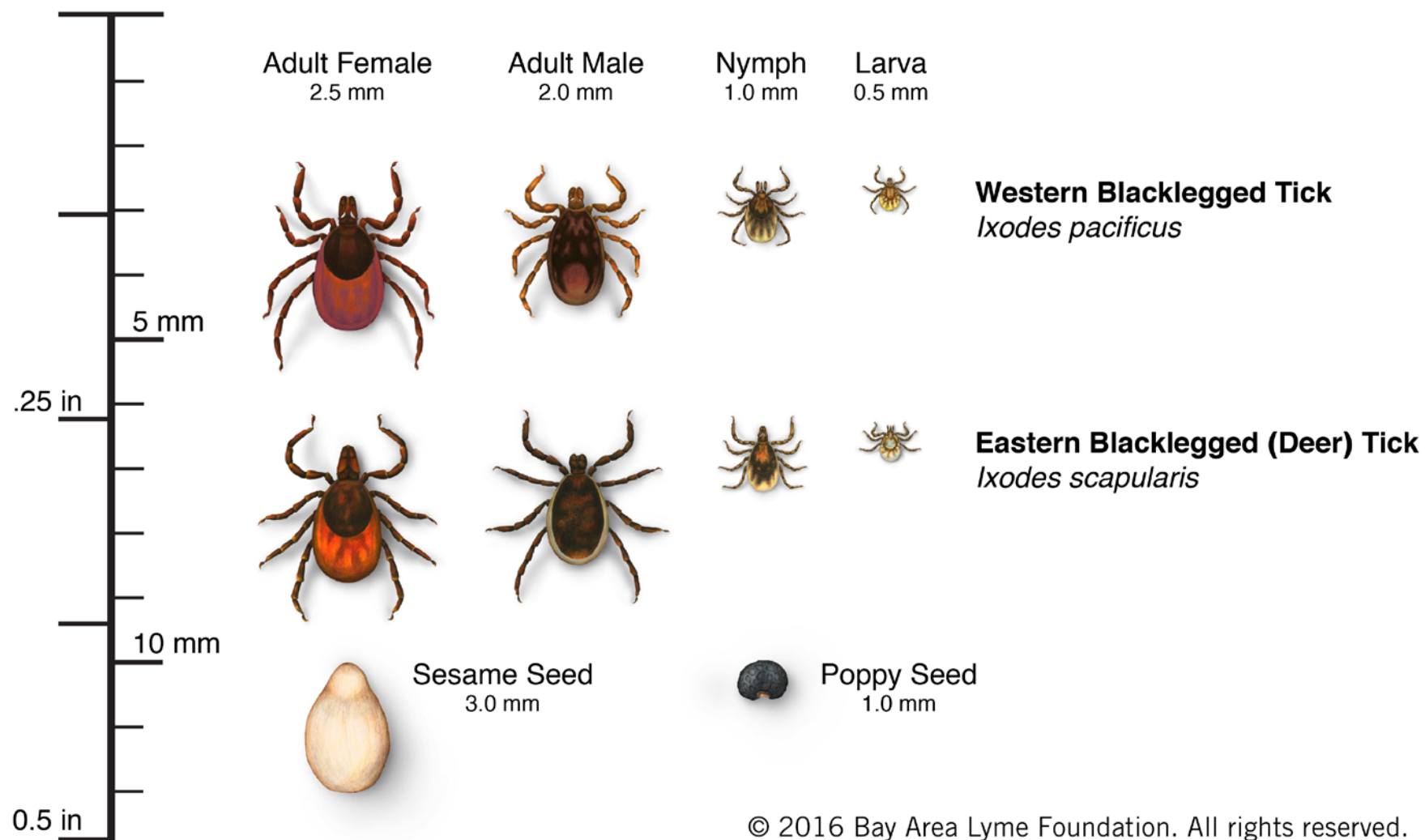
- Transmitted by Ixodes ticks
- Currently can be found from mainland Europe to Japan
- Vaccine is available in some disease endemic areas

► Rocky Mountain spotted fever

- More commonly known tick-borne diseases to affect dogs and humans

1. Parasites around us/ The tick

Lifecycle of a tick



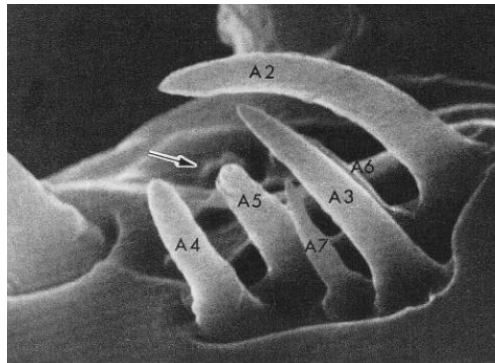
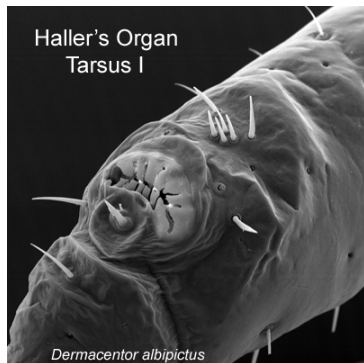
1. Parasites around us/ The tick

Haller's Organ (Sensory Organ of Ticks)

Detects:

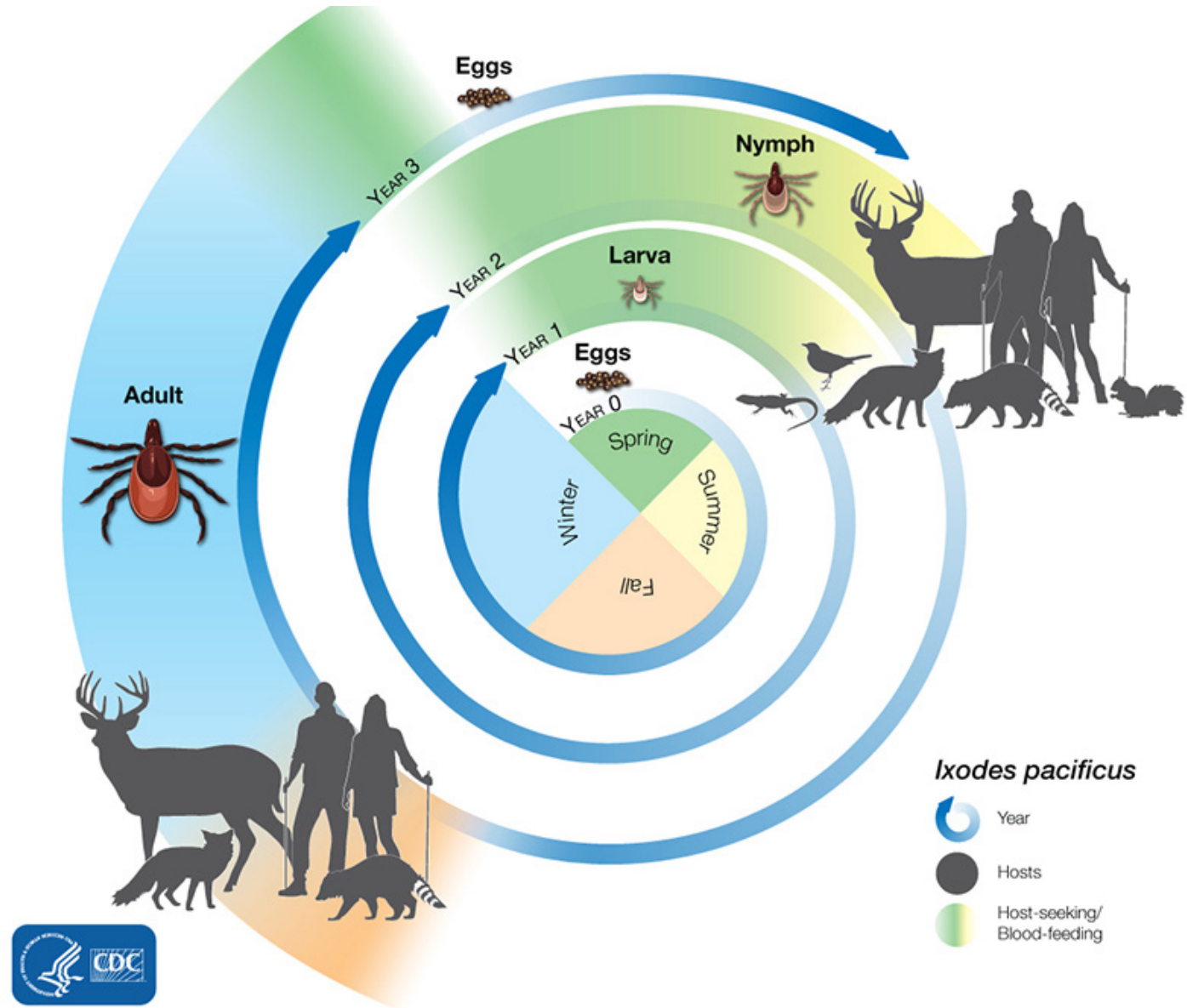
- Air currents
- Heat
- Humidity
- CO₂

Ultrasound makes this organ useless for them – „blind”



1. Parasites around us/ The tick

Spread of Ticks



1. Parasites around us/ The tick

Tick facts

- the most common misconceptions

- Ticks do **not fly or jump!**
- Ticks are found in shady, damp, brushy, wooded or grassy areas
- Ticks **don't die during winter!**
- You need to protect yourself in **every weather condition**
- Ticks are not only in the woods but **in the garden as well**

1. Parasites around us/ The flea

The flea

- **>2000 Species**
- **When a flea jumps onto your pet, it will start feeding within 5 minutes**
 - Can jump up to 150 times their own body length (~1-5mm)
- **Causes itching & carries diseases:**
 - Anemia
 - Allergy & Skin Dermatitis
 - Carrier of Tapeworm



1. Parasites around us/ The flea

Flea-borne diseases

► **Plague**

- Zoonotic disease but can affect human beings
- Around 2000 cases reported annually
- Re-emerging disease in America, Africa, Asia, Oceania

► **Murine typhus**

- Worldwide zoonosis
- Transferred from a rodent reservoir to humans
- Re-emerging disease spreading through travelers returning from endemic regions

► **Epidemic typhus** (*Rickettsia prowazekii*) – USA

► **Flea-borne spotted fever**

- Can be found throughout the world
- Can be hosted by a variety of fleas (mainly cat fleas)

► **Bartonelloses**

- Cat-scratch disease
- Worldwide

► **Tungiasis**

- Human disease directly linked to the parasitism of humans by fleas
- *Clostridium tetani*, *Streptococcus pyogenes*, *Staphylococcus aureus*

1. Parasites around us/ The flea

Sensory Organ of Flea: Antenna

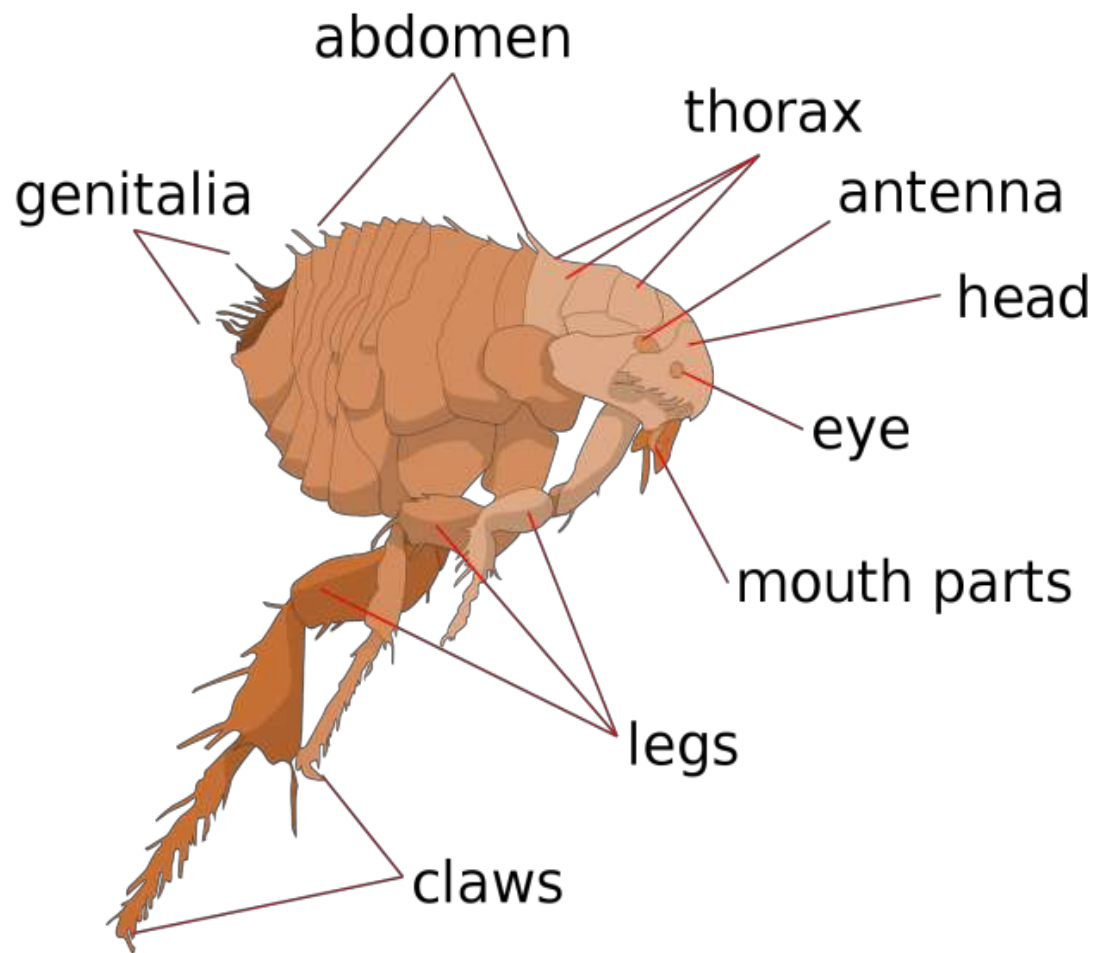
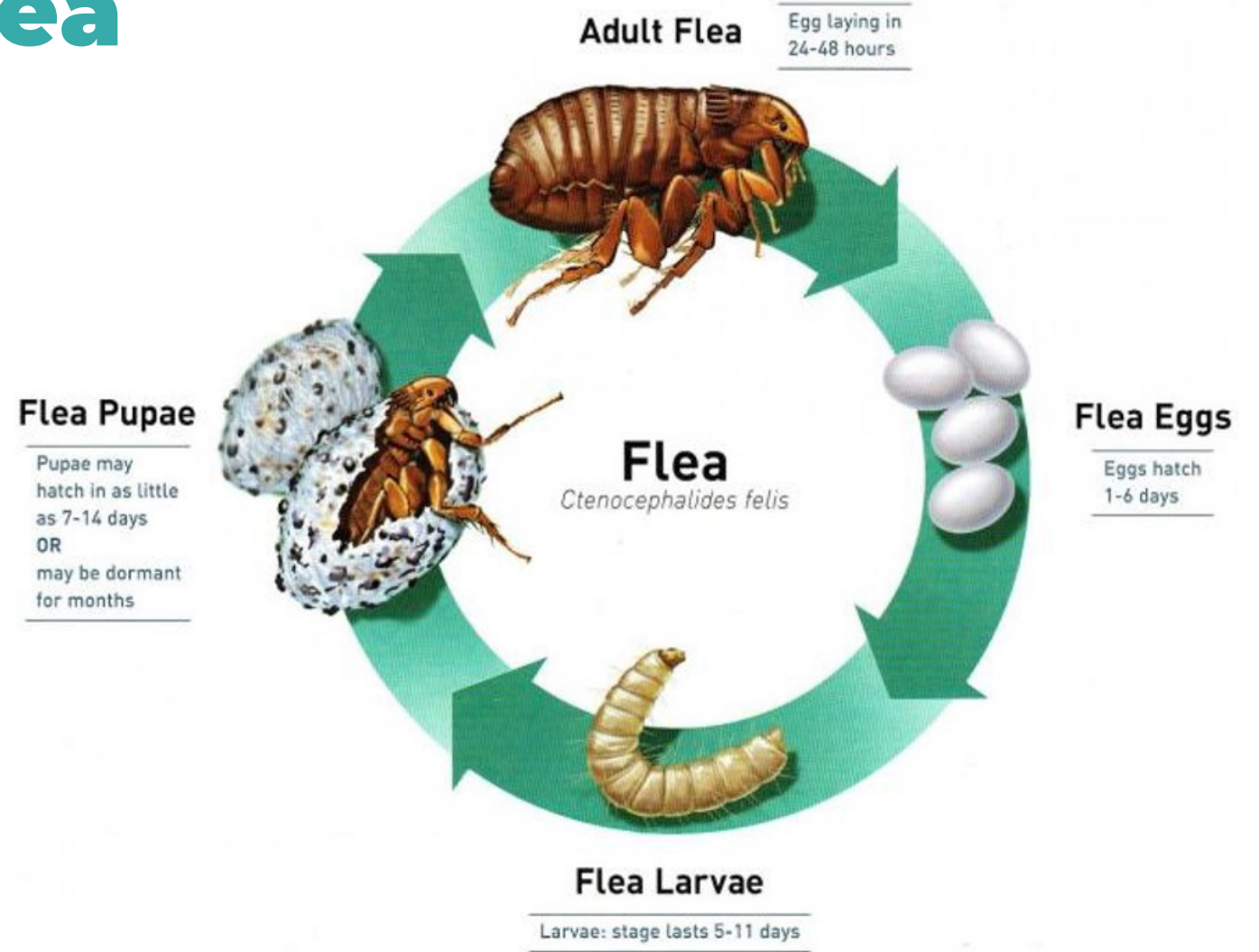


Photo by Chris Hedstrom
Oregon
Department
of Agriculture

1. Parasites around us/ The flea

Lifecycle of a flea

- A female flea can lay up to 50 eggs a day!
- **Indoor-only pets are not safe from flea infestations.** Fleas, in all of their stages, are easy to transport from place to place.
- **During a flea infestation, treating your pet isn't enough.** You have to treat the environment too!
- Fleas can transmit diseases that impact humans.



1. Parasites around us/ The flea

Types of fleas

Human fleas

- Mistakenly called human fleas - can attack a wide variety of mammals (guinea pigs, dogs, cats, rats, goats)
- Infestations can reach tremendous levels when the livestock of the animals is close to their homes

Cat flea (*Ctenocephalides felis felis*)

- Extremely common on cats and dogs in many temperate and tropical regions
- Also infects raccoons, opossums and rats
- Represents a great majority of fleas in human homes

Dog flea (*Ctenocephalides canis*)

- Very similar to cat flea
- Despite its name it's actually less common on dogs than cat fleas

1. Parasites around us/ The flea

Flea facts

- and most common misconceptions

- Fleas have a flexible life cycle
- During a flea infestation, treating your pet isn't enough
- A female flea can lay up to 50 eggs per day
- Indoor-only pets are not safe from flea infestations
- Your pets can develop an allergy to flea bites
- Fleas can transmit diseases that impact humans

How does **TICKLESS** work

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2. How does Tickless work

The basics of ultrasound

Common question: Is it safe?

✓ **Absolutely Yes!**

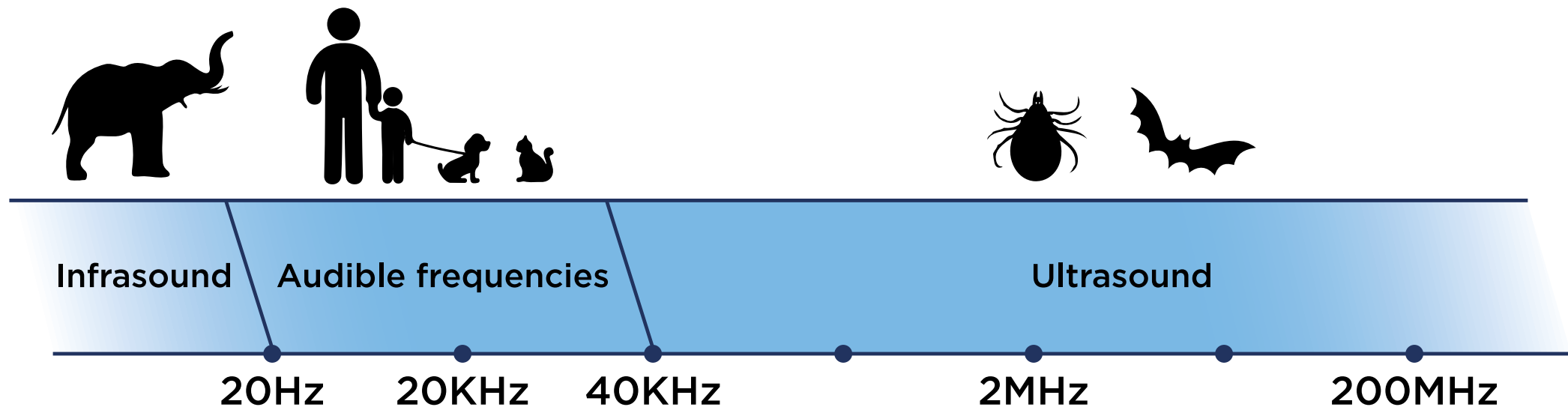
Ultrasound is also commonly used for medical imaging, detection, measurement and dental treatment.



2. How does Tickless work

How does TICKLESS work

- **Emits ultrasonic waves**
- **40 kHz sound**
- **Safe for people and pets**



Technology highlights



**ULTRASONIC
TECHNOLOGY**



CHEMICAL FREE



**SILENT TO PETS
AND PEOPLE**



**SCIENTIFICALLY
PROVEN**



SPLASH PROOF



**ALL YEAR LONG
PROTECTION**

2. How does Tickless work

Backed By Multiple Scientific Studies



ProtectOne Technology was first tested in 1993 by the University of Milano. It was proved to be effective against ticks and fleas.



ProtectOne Technology was tested in 2012 by the Medical Microbiology and Infectious Diseases Laboratory, University of Camerino (ranked as the best Italian university by Guida Censis Repubblica 2011 and 2012). The results showed that the test dogs, which already had a tick or flea, TICKLESS prevented any worsening of the infestation and in some cases reduced the infestations. The test also showed that in dogs that were not infested prior to the start of the study, ProtectOne Technology did not allow the number of parasites to increase.



ProtectOne Technology was tested in 2018 by VCA Animal Hospital Group in USA. The outcome of the test gave a clear picture on the efficacy since 94% of all pets involved stayed free of ticks and 88% stayed free of fleas thru out the whole test period.

Tickless vs. chemical solutions

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ProtectONE technology vs. regular methods

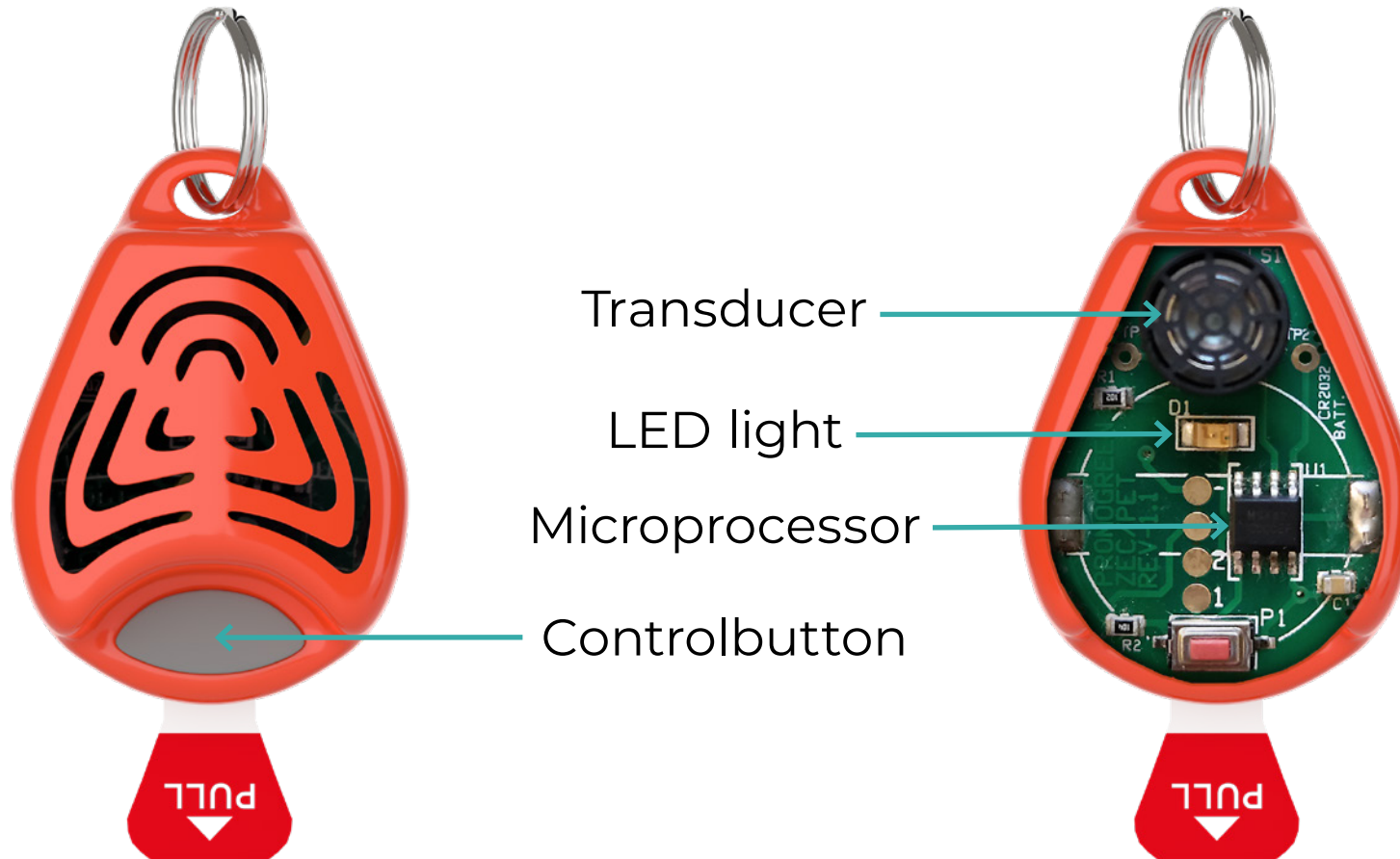
	ProtectONE technology	Regular methods	
	TICKLESS®	chemical treatment (inculging spot on, collars, and pills)	natural treatments (essential oils, garlic)
Protection against ticks & fleas	✓	✓	✗
Season-long protection	✓ 6-12mth	✗ 1-3mth	✗ 1-3mth
Non-toxic	✓	✗	✓
Free of chemicals	✓	✗	✓
Active Ingredients/ components	Ultrasound	Fipronil / (s)-Methoprene / etc. Toxic Chemical	Essential Oil
Odourless	✓	✗	✗
Safe for pets and kids	✓	✗ Could be fatal if ingested. Allergic reactions might cause skin inflammation and hair loss.	✗ Some essential oils are corrosive allergic upon skin contract.

Products

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4. Products

Device



4. Products

Tickless Pet

- Dogs, cats, other pets
- Works for at least 6 months
- Protection for the whole season
- Safe to use for puppies, elderly or ill pets, and during lactation
- 1,5 m range



ATTACH THE DEVICE TO THE COLLAR OR HARNESS



PLAY

4. Products

Tickless MINI

- Especially designed for small sized pets
- **Rechargeable** --> long time protection
- Safe to use even for young, elderly, ill- or pregnant pets
- 2,5 m range
- **Tickless Mini Black is made of 50% recycled plastic**



USB CABLE



PLAY

DEVICE



SILICONE RINGS



TICKLESS®
Ultrasonic tick and flea repeller



WHAT SHOULD I BUY FOR MY PETS?



Reommended for:

All sizes of pets

Small sized pets

All sizes of pets

For Horses

Chemical-free:

Yes

Yes

Yes

Yes

Operating time:

6-12 months

Up to 20-25 days
(Rechargeable)

6-12 months

6-12 months

**Can be switched
on/off:**

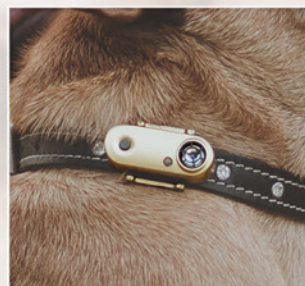
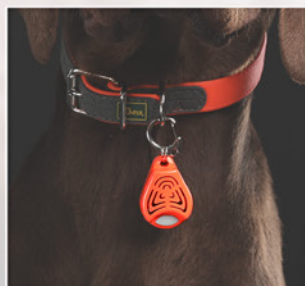
No

Yes

No

No

Fixing methods:



Colors:



4. Products

Tickless ECO productline

- Available for both pets and people
- Works for at least 6 months
- Protection for the whole season
- 100% biodegradable compostable
- Sustainable because of the biodegradable covering and FSC packaging

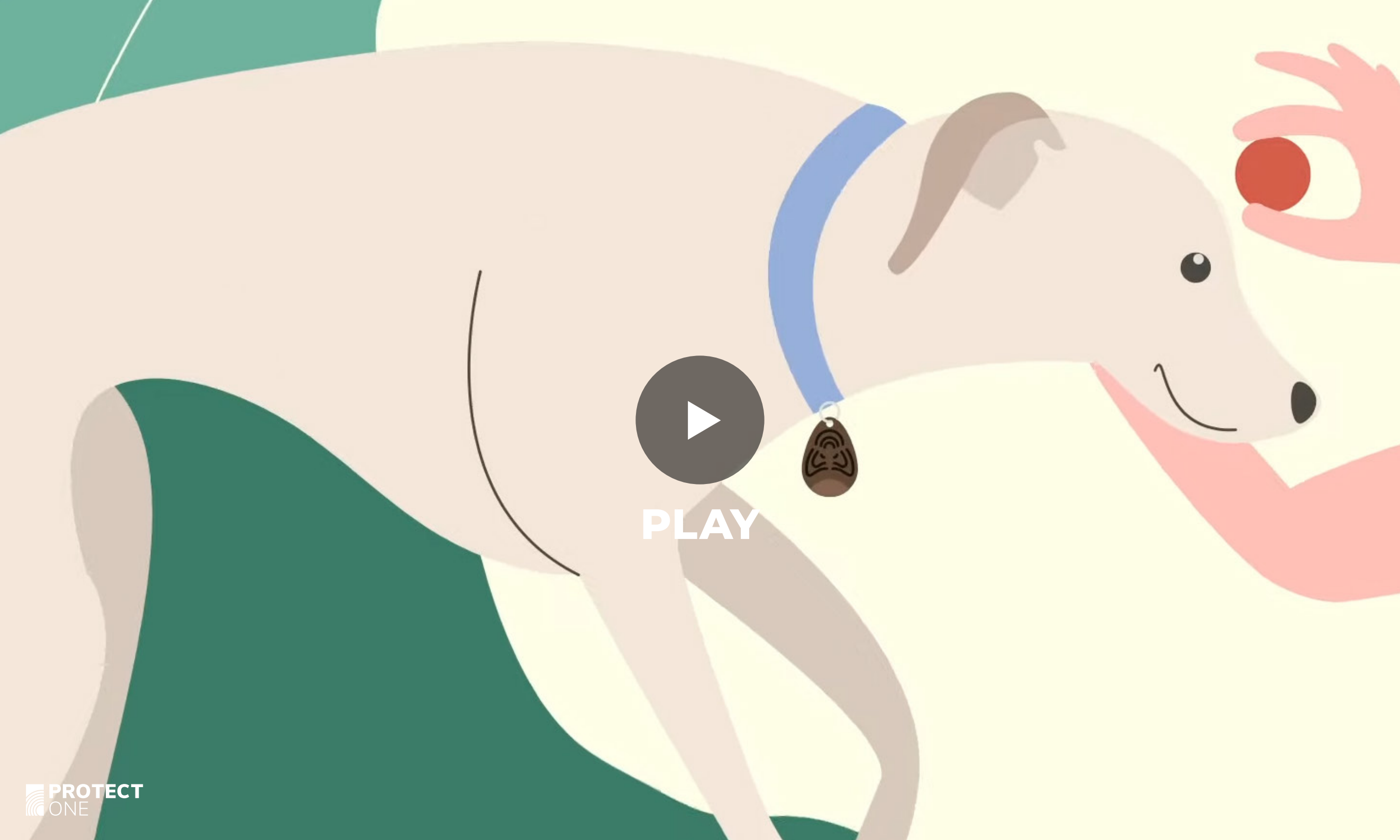


4. Products

Tickless ECO Pet

- 100% biodegradable compostable
- Works for at least 6 months
- Free of chemicals and fragrances
- Made of environmentally friendly, biodegradable material
- Does not cause an allergic reaction





PLAY

4. Products

Tickless ECO

- 100% biodegradable cover
- No odours and fragrances
- Works for at least 6 months
- Battery saving function
- You can switch it on & off
- Safe to use for everyone
- 2 m range



4. Products

Tickless Human

- For all ages
- You can switch it on & off
- Works for at least 6 months
- Battery saving function
- Safe to use for babies, ill, pregnant or elderly people
- 2 m range



Sales points

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5. Sales points

Sales arguments

PROS:

- 100% chemical-free
- Preventive
- Perfect combination with chemicals
- Long-lasting
- No side effects --> safe to use for everybody
- “Green”
- Small shelf space but huge margin

CONS:

- Not waterproof
- Battery life varies due to different conditions
- Not 100% effective (although neither are the chemical products)

FAQ

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6. FAQ

Frequently Asked Questions

1. Does it protect the back of the pet while wearing on the Collar?

- Yes! Ultrasound surrounds the body of the pet within 1.5-2.5 m/5-8 feet (depends on the device)

2. My dog can hear ultrasound, is it not disturbing for him?

- Although dogs and cats can hear certain levels of ultrasound, TICKLESS is absolutely safe and not disturbing for them.

3. Is it waterproof?

- No! It is drop proof (IP31), but if your dog goes accidentally into water, dry the device with a hairdryer.

4. Is it okay if I put in my pocket?

- No! Do not cover the device, as ultrasound will not come out.

5. Can I change the battery?

- No! TICKLESS is a closed system, so once you try to change the Battery, the effectiveness is not guaranteed anymore!