

The future of veterinary care

cotons ai
by CareSix

About us

Mission:
We envision a world where all companions receive the quality health care they're entitled to.



Timeline of company growth

2015

Research on dog wearable health collar starts with the support of Jeju National University

2019

CareSix Co., Ltd., founded in 2019, established a testbed for comprehensive data collection, laying groundwork for advanced algorithm training and development

2023

2 CES Innovation Awards
Sense 1 Vet &Pro

Exhibition at CES Las Vegas, one of the biggest electronic shows in the world.

Sense 1 Vet - first line of production being sold to Animal Hospitals located in South Korea

300,000 datasets collected labeled

Partnership with Anicom of Japan, the #1 market share holder in pet insurance

2024

Sense 1 Guardian production
Global launch to India

Cotons AI Innovation

We pride ourselves in building the world's first-ever BCG x 6 axis Integrated Vet-Grade Smart Collar

World's first ever BCG x 6-axis collaboration

The world's first-ever **Vet-Grade Smart Collar** that integrates **BCG (Ballistocardiography)** with the **6-axis sensor**. This groundbreaking combination simultaneously monitors both signals, intelligently compensating weak points of either signal to provide users with **precise and reliable health data**.

Non-attempted technology: BCG offers unique advantages over ECG, requiring no shaving, gel, or electrodes. Its **non-invasive design** is ideal for monitoring dogs — a feature other companies have not attempted.
Overcoming challenges: BCG's limited research, sensitivity to noise, and complex calibration posed significant challenges. We've overcome these to deliver **accurate and reliable health monitoring** for pets.

Unmatched accuracy 99%, only 0.8oz

Founded in 2019, our expertise builds on research dating back to 2015. In collaboration with Jeju National University and KDDI of Japan, we developed a proprietary AI algorithm **trained on over 300,000 health records**, ensuring reliable and accurate health-monitoring solutions.

Our device supports a good cause by partnering with Jeju National University during sheltered dog castrations, comparing results with patient monitors. This validated our **99% accuracy without shaving, electrodes, or gel.** At 0.8oz, it suits dogs of all sizes, XS to XL.

Optimized biometric design for our companions. Decrease in sensor displacement. Reduction of errors.

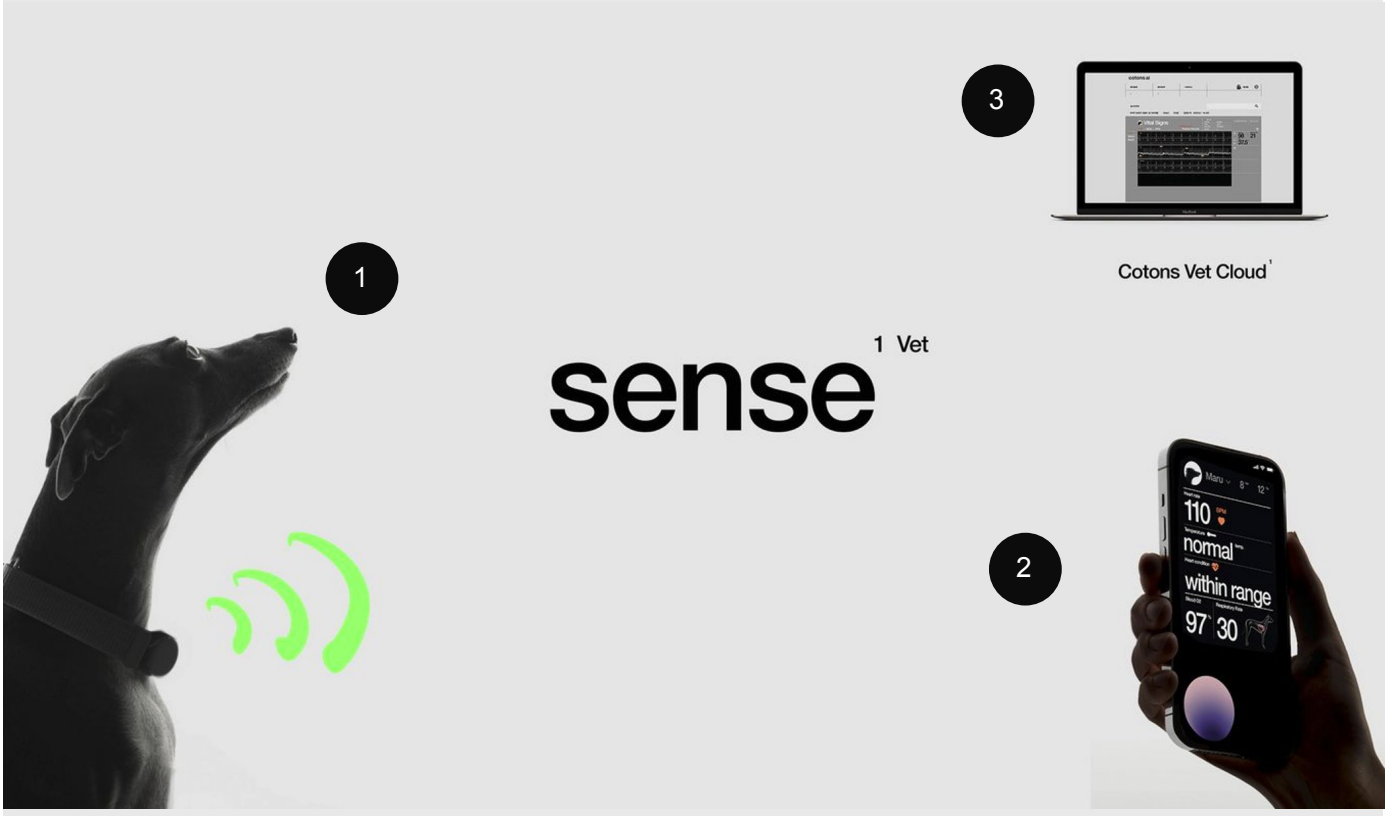
Gathered data further trains the AI algorithm to intelligently predict.

Translated with precision. Gain access to real-time emergency status updates.

Sense 1 Vet System

Designed for Veterinarians: professional-grade hardware and software.

1)Sense 1 Vet Edition comprises of a Sense 1 device, Gateway, Smart O2 and a dedicated 2)Veterinary App and 3)Cotons Vet Cloud. Tailored especially for veterinary use.



Products & Services

Cotons devices

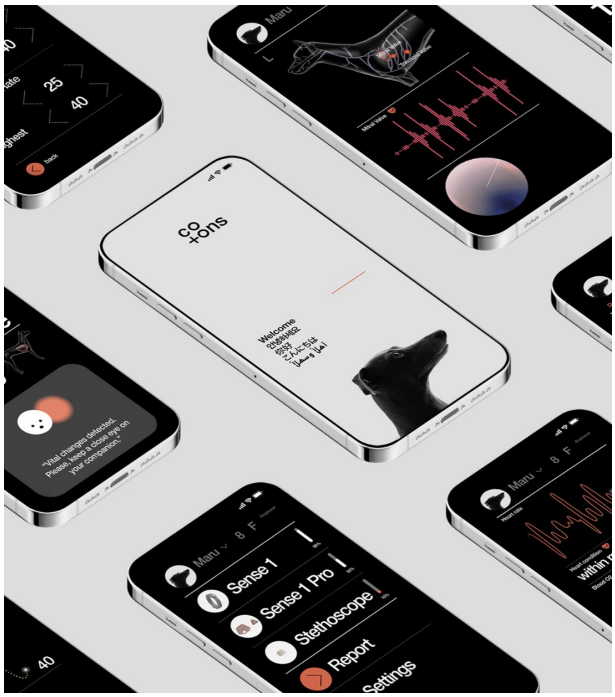
1. Cotons AI Sense 1 Vet

Designed for veterinary professionals, offering advanced monitoring features such as **real-time remote health monitoring** and **automatic alert system** tailored for clinical environments.

2. Cotons AI Sense 1 Guardian

A non-invasive smart collar for pet owners to monitor accurate health data during recovery, first time medication and general health monitoring for chronically ill dogs **at home.**

Cotons software



- Cotons Cloud

Effortlessly manage your patients on a widescreen dashboard. Monitor up to 10 patients simultaneously for efficient oversight.

- Cotons Application

Access comprehensive health data anytime, anywhere. Eliminate the need for constant bedside monitoring - real-time alerts keep you informed and enable timely interventions when needed.

Sense 1 Vet

for our veterinary professionals

Simplifying Patient Monitoring for Veterinary Professionals with Sense 1 Smart dog collar

No shaving.
No gel.
No electrodes.
Just real-time monitoring made easy.

The Cotons AI Sense 1 Vet is an ultra-lightweight, ergonomically designed wearable, suitable for dogs of all sizes—from extra-small to extra-large—at just 0.8 oz. It seamlessly integrates with **Electronic Medical Records (EMR)**, ensuring patient data and vitals collected by the device are automatically synchronized for streamlined care.

Unlike traditional Patient Monitors or Holter Monitors, which require complex setups, Sense 1 Vet eases the process. Simply secure the device around the patient's neck to receive accurate, real-time health data and emergency alerts.

This solution empowers veterinarians to:

- Perform continuous, non-invasive monitoring of heart rate, respiration, and body temperature.
- Receive immediate notifications for critical changes, supporting faster decision-making.
- Optimize patient care without added stress for the animal or staff.

Who its for

- **Veterinary Hospitals:** Deliver exceptional care with precise diagnostics and monitoring.
- **Pet Boarding Center:** Provide additional value to clients through real-time health updates and reports.
- **Telehealth Platforms:** Skip the guesswork. Share precise, objective health data with your tele-vet for faster, more accurate diagnosis.





2 CES Innovation Awards Sense 1 Vet &Pro

Sense 1 Vet

Simplifying Patient Monitoring for Veterinary Professionals with Sense 1 Smart dog collar

No shaving.
No gel.
No electrodes.
Just real-time monitoring made easy.

Specification

Sense 1 Vet CLASSIFICATION		SENSOR
Key Specifications	Processor	Coretex-M33
	RAM	512kB
	ROM	1MB
	Connectivity	Bluetooth®5, 2Mbps
Sensor	BCG	Piezofilm, arrhythmia detection
	6AXIS	GYRO SCOPE / ACCELROMETER
	TEMPERATURE	CMOSense® sensor chip (typical accuracy of 0.1˚C)
Others	Rated input factor	5V/0.4A
	Battery	Li-Polymer, 3.7V / 320mAh (typical)
	Insert type	USB TYPE-C
Usage Time	Full charge	1 hour
	Streaming mode (real-time monitoring)	24 hours



Gateway CLASSIFICATION		SENSOR
Key Specifications	Processor	ARM Cortex-A53, QUAD-CORE
	RAM	2GB
	ROM	16GB
	Connectivity	Dual-Band 802.11 a/b/g/n, Bluetooth®4.1
Others	Rated input factor	5V/2A
	Insert type	USB TYPE-C
	Adaptor	Insert: 100-240V/0.7A Output: 5V/3A







"Traditionally, we've relied on heavy, bulky equipment to manage patients after anesthesia or in emergencies. Sense 1, developed by CareSix, changes this. It's a simple neck collar—no shaving required—that's highly accurate and easy to use.

Veterinarians have typically used stethoscopes, ECG devices, and PPG devices separately for monitoring. With Sense 1, we can track heart changes in real-time via web or app, offering a significant advantage in managing patient recovery and emergency care."

Professor Youngmin Yun,
College of Veterinary Medicine JNU

"The best wearable device I’ve seen so far.”

Ulsan * Animal Hospital

Sense 1 Guardian

Accurate monitoring
at home

After surgery
During medication
When diagnosed with heart disease

Whether managing chronic conditions, ensuring recovery after medication, or caring for senior dogs post-surgery, **Sense 1 Guardian** provides reliable support to ease pet owners' concerns and enhance their pets' well-being.

With real-time health updates and long-range Wi-Fi connectivity, Sense 1 Guardian ensures your dog’s health is always within reach. You can conveniently borrow the device from the nearest hospital, where the data you monitor at home is automatically shared with your veterinarian. This integration allows you to consult your vet easily, as they have real-time access to the same detailed health information.

What you worry about and what we can solve
•Caregivers who need constant, accurate monitoring of their companions diagnosed with early-to-late-stage heart disease.
•Those seeking a proactive tool for regular health checks, especially tailored for dogs at risk of or living with heart conditions.

Who its for
•**Vets:** Remote monitoring of patients recovering at home.
•**Caregivers:** Tailored for dogs over 7 years old, those with chronic conditions, or pets recovering from treatment.
•**Pet Boarding Center:** Provide additional value to clients through real-time health updates and reports.



Sense 1 Guardian

Specification

Sense 1 Guardian CLASSIFICATION		SENSOR
Key Specifications	Processor	Coretex-M33
	RAM	512kB
	Memory	2GB(external)
	Connectivity	Bluetooth®5, 2Mbps
	Wi-Fi	802011 b/g/n 2.4G
Sensor	BCG	Piezofilm, arrhythmia detection
	6AXIS	GYRO SCOPE / ACCELROMETER
	TEMPERATURE	Infrared (IR)
	PROXIMITY	Vertical-Cavity Surface Emitting Laser (VCSEL)
Others	Rated input factor	5V/0.4A
	Battery	Li-Polymer, 3.7V / 320mAh (typical)
	Insert type	USB TYPE-C
Usage Time	Full charge	1 hour
	Interval mode	20 hours
	Streaming mode (real-time monitoring)	24 hours

“

I had to manually check Soonshim’s vitals every night at the same time.

”



“Before using Sense 1, I had to manually check Soonshim’s vitals every night at the same time - it was stressful and time-consuming.

Sense 1 is comforting because it automatically records accurate vital data. I can now easily monitor parameters like temperature and activity levels with confidence. “

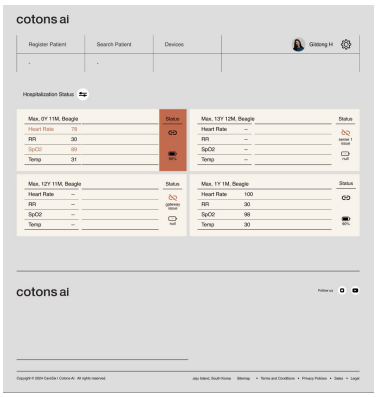
Soonshim’s guardian from Jeju

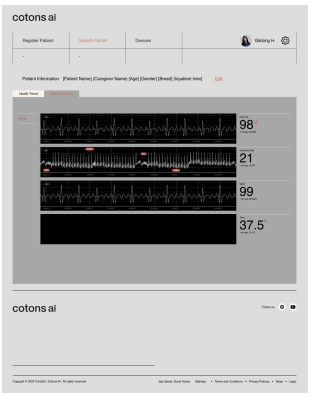
Cotona AI Software

Cotons AI Cloud

Cloud based real-time monitoring

- Remote monitoring available anywhere, anytime
- Real-time graphical data
- Revisiting recorded health data
- Effective management, up to 10 patients in a single dashboard
- EMR (Electronic Medical Record) synced - automatic filing of health data into patient

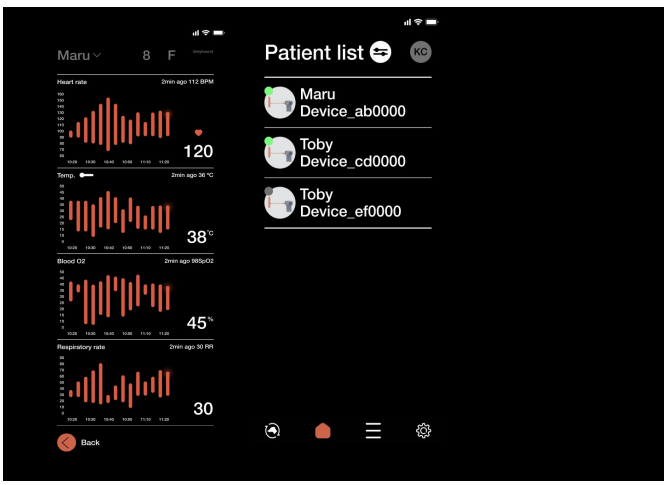




Cotons AI Application

Remote monitoring made possible via mobile

- Real-time emergency alerts anytime, anywhere via mobile
- Missed, lost data stored for later reference
- Customizable alarm range



Partnering for Precision in Canine Health Monitoring

We collaborated with JNU to gather vital data, achieving 95%+ accuracy in training our Cotons AI.

Partnering with Anicom Holdings, Japan's leading pet insurance group, we're advancing AI development aligned with their mission to combat genetic diseases. These partnerships combine expertise to innovate non-invasive canine health solutions.

Our co-development dates back even prior to our establishment. With JNU we've worked from the very beginning to collect an abundant amount of vital, behavioral and clinical data to intricately train our Cotons AI for that 95%+ accuracy.

We chose to get advice from veterinary professionals early down the road to strictly focus on the wellbeing and development of non-invasive canine health detection.

We recently signed an agreement with Anicom Holdings, Japan's largest pet insurance group to collaborate on AI algorithm development.

Anicom holdings have been working to eradicate genetic diseases of pets since 2017.

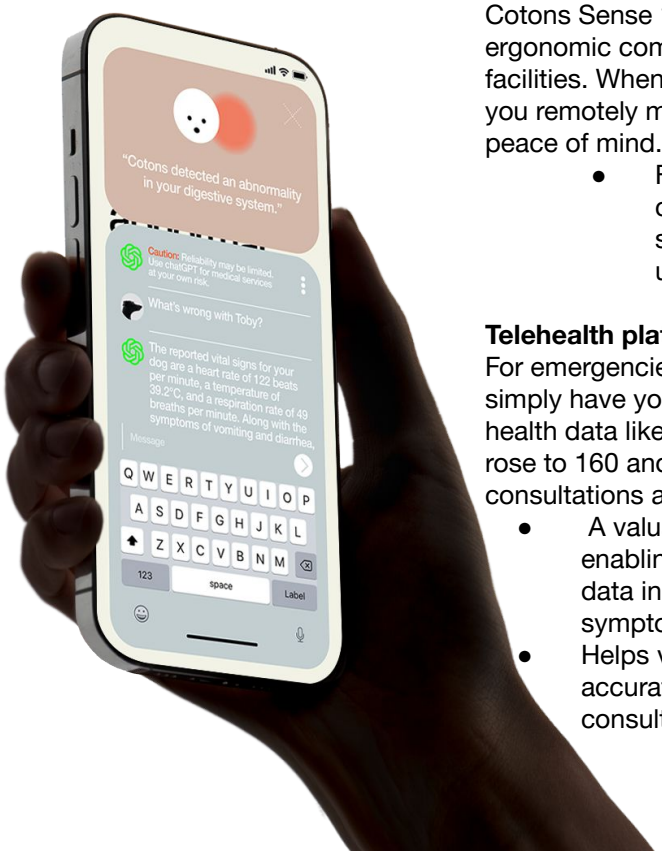
Contons AI is confident that our product will not only address the current challenges faced by our users but also take a proactive step toward enhancing their overall experience.

Veterinarians and Veterinary Technicians
For our heroes working in the Veterinary field, with Sense 1, we aim on providing enough efficiency to ease their workload and infuse remote monitoring to bring a wave of change.

- Designed for professionals in the veterinary field who need accurate, real-time health monitoring.
- Ideal for technicians looking to improve efficiency and streamline workflows.
- Perfect for veterinarians who want to remotely monitor patient status after procedures or treatments.

Caregivers
Sleepless nights filled with worries and uncertainties - Sense 1 lifts those burden by the automation of vital checking processes with high accuracy.

- Designed for pet owners who need to monitor their pets during specific hours, especially those diagnosed with heart disease or other chronic conditions.
- Pet owners managing senior dogs or pets with chronic conditions.
- A reliable solution for those providing post-medication or post-surgical care at home.



Pet boarding center
Cotons Sense 1 combines elegant design and ergonomic comfort, making it perfect for pet care facilities. When you're boarding your pet, Sense 1 lets you remotely monitor vital health metrics, giving you peace of mind.

- For pet boarding facilities and daycare centers that want to enhance customer satisfaction by providing detailed health updates to pet parents.

Telehealth platforms
For emergencies or pets that struggle with vet visits, simply have your pet wear the device. Share precise health data like, "After medication, my dog's heart rate rose to 160 and stayed high for 2 hours," to make consultations accurate and stress-free.

- A valuable asset for tele-veterinary services, enabling caregivers to provide objective health data instead of relying solely on observed symptoms.
- Helps veterinarians make faster, more accurate diagnoses during virtual consultations.

Meet the Experts Behind Our Canine Health Innovation

Sunghoon Kim Founder
As the founder of CareSix, he leverages his extensive experience as SVP at SK Global America Inc. to drive the company's growth.
He leads with determination, actively securing funding and ensuring timely production of our products, demonstrating a hands-on approach to leadership.

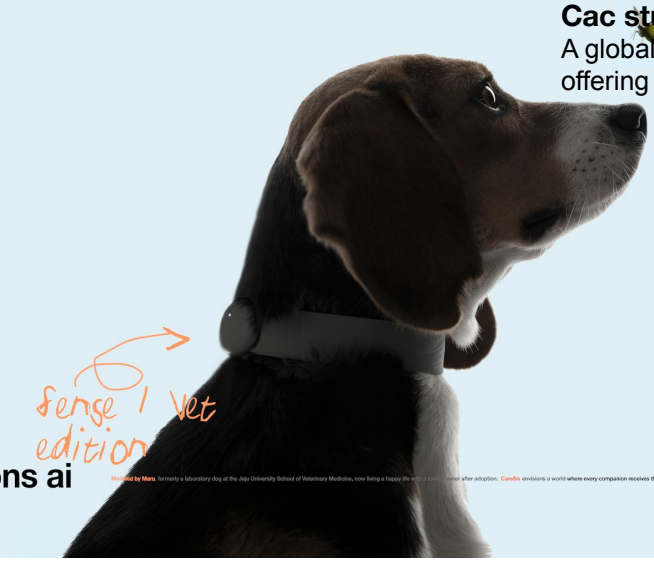
Justin Hwang COO
With expertise spanning software, hardware, and firmware, he brings a comprehensive understanding of the entire technology spectrum. Starting his career as an engineer at LG and rising to become the CTO of iRiver, he combines deep technical knowledge with strategic vision to drive innovation and excellence.

Jinwook Chang CTO
Persistence to make the world's most perfect non-invasive Cotons AI Algorithm. With experience at LG as the Chief Researcher, he manages the AI team to collect, label and train our AI algorithm.

Youngmin Yun Veterinary Professor
As the head professor at Jeju National University's College of Veterinary Medicine, he oversees the University Hospital and the Wildlife Center of Jeju. Driven by a deep passion for advancing veterinary medicine, he is committed to improving animal care and treatment across diverse species.

Hoyoung Kwak
Executive Advisor
Professor at the Department of Computer Engineering

Cac studio Seattle
A global design studio based in Korea and Seattle, offering innovative and practical design solutions.



cotons ai

Love,
Understand,
Protect.

cotons ai
by CareSix

Located
Jeju-do Jejusi 516ro 2870 of South Korea

Contact us at
email: service@cotons.ai
phone: +82-756-7333

instagram @cotons.ai

website www.cotons.ai