

withapet[®]



Artificial Intelligence, Diagnose the heart of a companion animal.



WithaPET™ - Listening to the sound of pet for your pet's health

Aims to protect the health of speechless companion animals and reduce medical expenses in their homes through the integrated application of smart devices, AI, and solutions (the world's first automatic Sleeping Respiratory Rate (SRR) and Heart Rate (SHR) measurement model - patent registration)

- Home : Prevention and management of chronic diseases through early diagnosis of cardiopulmonary diseases
- Hospital : The first screening at the veterinarian's office, the function of operating/recovery room monitoring

Main Functions



Measurement (Sound of Heart & Lung),

- Based on IoMT (Internet of Medical Things)
- Real-Time Measurement
- Auto Measurement while Sleeping (SHR/SRR)

Smart Application to Monitor,

- Collecting Auscultation Data via Bluetooth
- Analysis, Digital Index, Graph and History
- Sharing Measurement Data via SNS & Email

Diagnosis by Artificial Intelligence

- XAI : eXplainable Artificial Intelligence
- Deep Learning through Pet's Clinical Data
- Heart : MMVD

Specifications

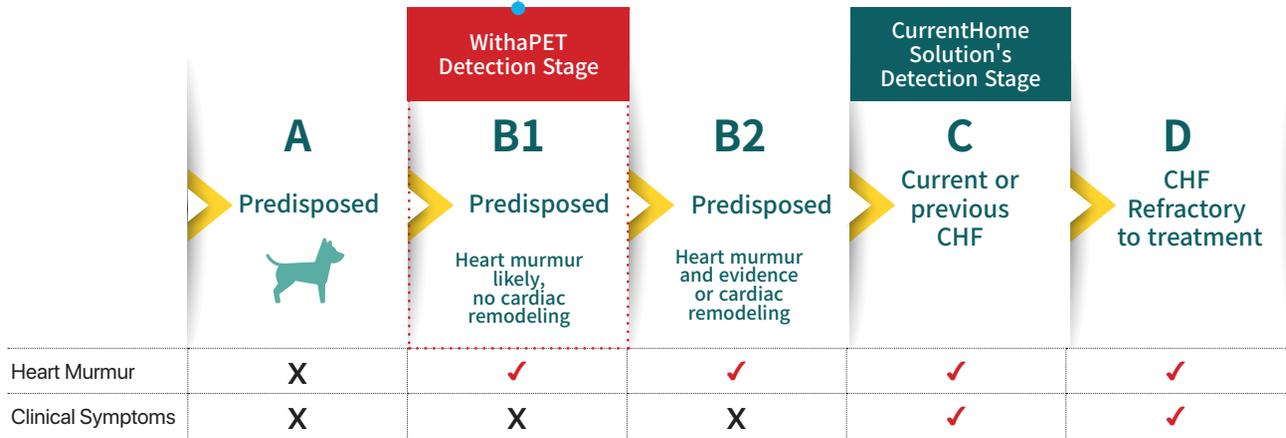
Wireless Connection	Bluetooth	BLE 5.0
Basic Specification	Size(W X D X H)	50 X 50 X 15(mm)
	Weight	22g
	Port	USB C Type
	Sensor Type	MEMS MIC
Battery	Type	Li-Ion Polymer 3.7V 110mAh
	Recharging Time	Approx. 2 Hours
	Using Time	Approx. 8 Hours (Measurement)

Early Diagnosis of MMVD(Myxomatous Mitral Valve Disease)



WithaPET™ Early detection at Stage B1 in hospital and at home.

- More than 90% of accuracy of MMVD(HCM) AI reading
- Stethoscopy on the fur of a companion animal, the possibility of Stethoscopy of a newborn dog/new cat under 200g



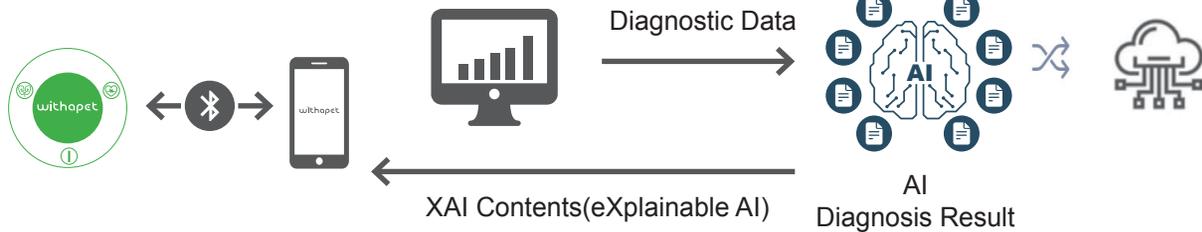
ACVIM stages of MMVD in dogs & HCM in cats

- Most of the heart disease(70%) with the highest mortality rate of dogs is MMVD, and 85% of "old small dogs" have the disease.
- Fifteen percent of all cats suffer from cardiomyopathy, more than 50% of which are HCM (WIP)
- The best treatment for heart disease is 'systematic management through early diagnosis' → Improvement of the quality of life of companion animals/companions and saving of medical expenses

Pet Stethoscope

Analysis AI Solutions

AI Server/Big data (Pet's sound)



Veterinary hospital	<ul style="list-style-type: none"> • Pet stethoscope during reception/treatment(first screening) • Replacement of expensive heart/breathing monitoring devices(operating rooms, recovery rooms) • Establishment of a multi-monitoring system(recovery room, hospitalization room) • Support for veterinarian treatment through AI(Second Opinion, AI Supporting)
Home	<ul style="list-style-type: none"> • Heart disease management through measurement while sleeping of companion animals • E-transmission of measurement data to the primary veterinary hospital or veterinarian(transferred at medical treatment) • Measurement/alarm of respiratory rate for confirmation of the presence or absence of pulmonary edema(necessity to secure golden time).