UNIVERSITI TEKNOLOGI MARA

Ai FEEDER

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1. EXECUTIVE SUMMARY

Pet care should be fun, not burdensome, and so the goal of this project is to assist owner with pet care by providing an automatic pet feeder. The purpose of the project helps the owner of the pet feeding their pet on time even when they are not at home. Nowadays, people want to have pet as their companion buddies or add value to the family. However, due to busy lifestyle and must travel and leaving the pet make pet parent minimize their mobilities. Other than that, it also can help the owner know the diet of their pet. Knowing the diet of the pet is very important for the owner to make sure that the pet is in good health. This system assists pet owner to feed the pet. Ai Feeder is using high technology by using current technology which is RFID tag. Ai feeder have potential to be positioned as one of the successful automatic pet feeder business throughout the country with our creative innovation. Our overview for this industry is complex and fast growing due to the advance of technology. Our product is open to all people especially family and pet lover.

This Ai feeder has function and advantages not found in today's common pet feeder thus providing a competitive advantage over more established competitors.

2. PRODUCT DESCRIPTION

Most pet owners cannot stay home to feed their pet several times a day, yet they want their pet to be able to eat as needed throughout the day. One of the most common ways that pet owners try to solve this problem is by so-called free feeding, where a pet has food available all day and eats at will. The problem is that the pet owner has no control over how much the pet eats or which pet eats the food. Many households have more than one pet which is fed from a bowl on the floor. Among those households, it is a common occurrence that those pets cannot eat the same food for either medical or financial reasons

We are introducing an automated pet feeder which will be suitable for cats and small dogs. This product is called the Ai Feeder which helps pet owner to feed their pets while they not around, prevent another animal eating pet's food and keep the food always fresh. The idea is simple, yet it comes with many benefits. The user will not have to worry when leaving their pet in the house without supervision.

The Ai Feeder features are consist of bowl (or eating tray) mounted to the Ai Feeder, a digital timer which are programmable by the owner and allows pet parents to program up to 8 daily meals with portion from 1/8 cup up to 3 cups (dried food) , system will hold enough food for 20 feedings (2 L food), Radio Frequency Identification (RFID) tag, it has been design to handle both dry and wet cat food (added manually).

The Ai Feeder is designed to feet only one to two pets. To make sure that no "forbidden pet" eats the food in this feeder will be a RFID reader mounted to the encloser of the feeder in front of the revealed bowl. This reader will be paired with tag on the forbidden pet's collar. When the reader receives the signal from the tag it will trigger the bowl opener to open. After cat leaving the eating tray, the opener will be close automatically, thus keeping the forbidden pet from eating and leaving the leftover food inside the bowl fresh. This is also every suitable for wet food which is fly cannot enter the food and lay the egg which give unhealthy food condition to the cat.

In addition, Ai Feeder only using three double A batteries and can last longer for 6 months. Furthermore, several pieces are dishwasher safe for convenient clean-up, including the stainless-steel feeding bowl. The bowl can be removed to wash and reattached back at Ai Feeder tray. This will give more hygiene condition to the cat.

This Ai Feeder help people with the design which comfortable for user and animals and productive to place it anywhere. In addition, it also comes with the compatible size. On top of that, Ai Feeder are available with three different colour which is grey, black and white. The colour chosen because it will make the Ai Feeder are suit for any placed and design in the house which give a simple and sophisticated look.

What make Ai feeder different which other product in the market is, most of the cat or dog feeder are gravity feeder which pet eats food from the bowl, gravity pulls more food down to refill the dish. This feeder cannot program the potion sizes or feeding times and leaves the food not fresh because it open to the air and can spoil the food. While for other automated feeder in the market, usually consist of small food storage capacity and need to fill it up every day. Then do not have tray lid to keep food inside fresh, and lastly higher price and the size of the product are not convenient.