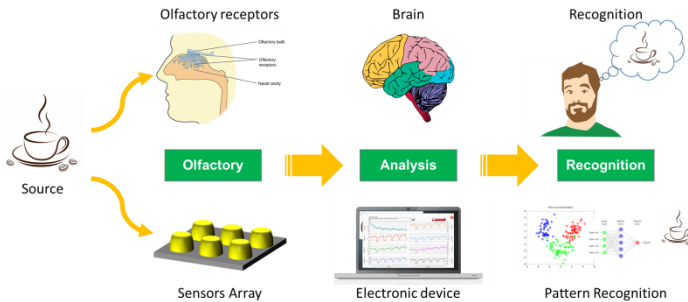


# ELECTRONIC NOSE



ELECTRONIC  
NOS



## Product information

Electronic Nose is a tool for monitoring and analysis of smells. Its working principle mimics the mammalian olfaction including human. Electronic nose can be used to learn, recognize and classify odor patterns. It is a valuable tool for odor quality assessment in the food & beverage, cosmetic, agricultural, environment, security and healthcare industries.

## Electronic nose devices mimic the human olfactory system

### Electronic nose models

At present, we produce two types of Electronic Nose for applications in broad areas of interest.

- 1) **Portable E-nose** for laboratory and field works.
- 2) **E-nose Station** for real-time monitoring of smell in factory, industrial complex, animal farms and smart city as well as indoor air quality in building and hospitals.

We also provide B2B service to develop new products or integrate E-nose into your products.



Portable E-nose

E-nose station

## Application of Electronic Nose

### Cosmetics and perfume

- Design of perfume and deodorant.
- Herb recipe measurement.
- QC of cosmetic ingredients.



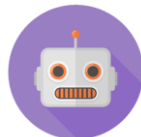
### Healthcare

- Diabetes diagnosis from urine
- Cancer diagnosis from breath
- Exercise level checking



### Robotics & IoTs

- Robot Chef
- Robot barista
- Service Robot



### Food & Beverage

- Tracking the development of wine fermentation.
- Wine design, branding of wine, tracking grapevine.
- Classification and Identification of Thai Jasmine Rice.



### Environmental

- Measurement of odor emission and identification of odor source from pig farm, factory and industry complex.



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# Electronic Nose for Food Beverage and Agriculture



ELECTRONIC  
NOS



## Food

- Grading and quality check of tuna, shrimp, seafood.
- Quality control of meat products, milk and cheese.
- Classification and Identification of Thai Jasmine Rice.
- To check the smell of agriculture raw materials.
- To check the recipe of Tom Yam Goong.
- Measuring the shelf life of food products.

## Beverage

- Tracking the development of wine fermentation.
- Wine design, branding of wine, tracking grapevine.
- Measurement of odor of mineral water.
- QC of beer, whiskey and coconut water.
- Classification and Identification of tea.
- Rating of coffee, QC of coffee roasting and cupping.

## Cosmetics

- Design of perfume and deodorant.
- Herb recipe measurement.
- QC of cosmetic ingredients.

## Agriculture

- QC of agriculture raw materials and products.
- Measurement of volatile organic compounds in soil to assess soil fertility and organic fertilizer.



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# Electronic Nose for Healthcare



**ELECTRONIC  
NOS**



**Portable E-nose**



**Smelling Shirt**

Diabetes diagnosis from urine

Cancer diagnosis from breath

Personalized beauty / cosmetics

Exercise level checking

Sleep health monitoring



**Personal healthcare**



**Personalized beauty**



**Chemical Sensing**

- Ammonia
- Urea
- Sweat

**Physiological Sensing**

- Beat
- Breath

**Biokinetic Sensing**

- Gait & Posture
- Troop Activities

**Soldier healthcare**



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