



Wherever we are, we are surrounded by different kinds of smell.

But can you digitize, measure and then use smells?

<u>www.smell-inspector.com</u> →

Unlimited number of use cases: Wherever smells matter!



Home Appliances



Industrial Appliances



Air Quality



Safety & Security



Quality Control



Healthcare & Medicine
Drones & Robots
Automotive & Aviation
Perfumes & Body Care
Agriculture & Product Safety
Research & Development
...and many, many more...

Food & Beverages



Smell Inspector: A tool for developers and end users



- > affordable hand-held device
- > very low power consumption:
 - $< 1 \mu W$ for the detector chip
 - $< 300 \mu W$ for read-out electronics
- > software compatible with mobile devices
- compatible with Arduino and Raspberry-Pi
- > connection via USB, Wi-Fi or Bluetooth
- contains four Smell iX16 detector chips

- high sensitivity to different gases and VOCs
- low-cost and compact
- modular: easy adaptation to specific applications
- > application as disposable chips possible







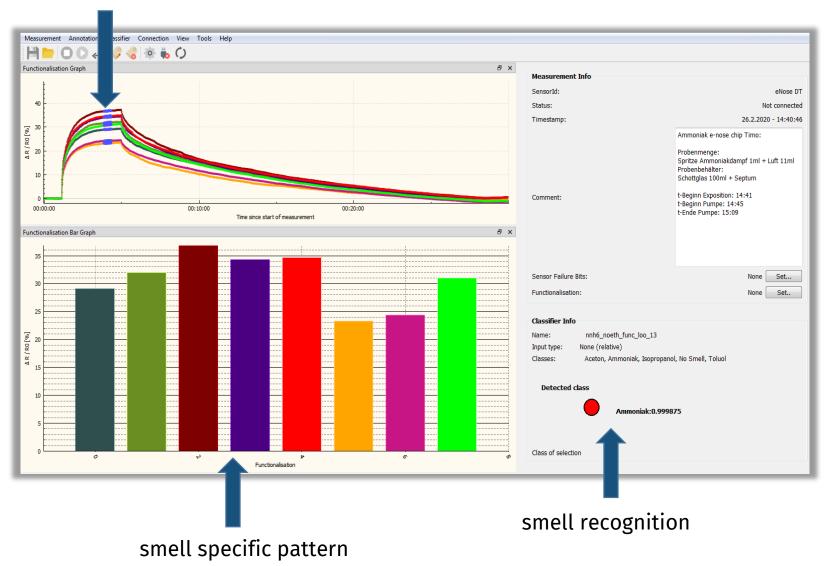
16-channel detector on foil



Smell Annotator: A software for both developers and end users



time resolved visualisation of smell measurements





- provided with Smell Inspector
- > used for:
 - recognition of stored smells
 - control and annotation of measurements
 - storing digital smell patterns
- developer version provides:
 - various sensor parameters
 - further useful features
- Windows and Linux versions available
- Android and iOS versions follow

Our references: Pilot projects





SNIFFBOT: search for leaks of dangerous gases





How Roboy Learns to Smell



recognition of different VOCs



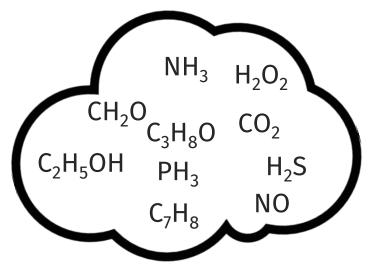
recognition of food and beverages smells

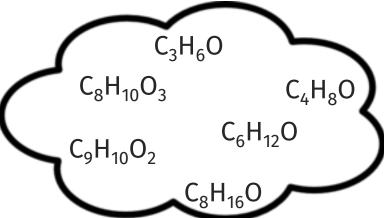


fumigation process monitoring

Tested gases, VOCs and smells









guaiacol tee perfumes chocolate red wine
lemon juice
garlic orange juice
vodka

onion
fish
orange meat
spoiled banana
trash smell

spoiled fish

All substances and smells are recognized with one hand-held device

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