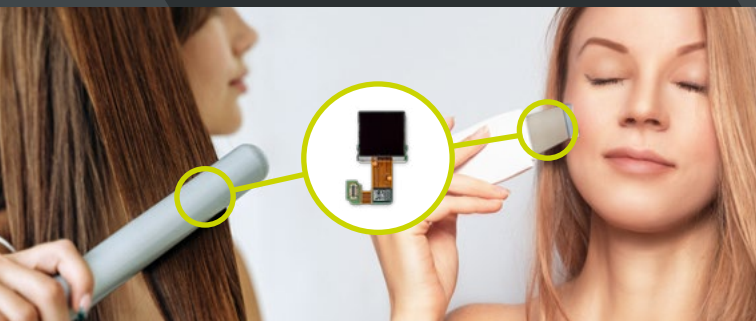


trinamiX

A brand of
BASF – We create chemistry

Where science meets beauty

trinamiX Consumer Spectroscopy
for skin and hair care applications



Bring lab-proven technology
in the hands of consumers

The benefits

We enhance skin analyses
by utilising NIR spectroscopy



- ✓ **Precise**
Reliable results through
high repeatability
- ✓ **Specific**
In-depth insights
on molecular level
- ✓ **Comprehensive**
For over-makeup
measurement
- ✓ **Contactless**
Short-distance
measurements

Our key to miniaturization

An in-house developed
fully functional spectrometer

✓ **Patented IR sensor chip**

Sensitivity range 1 – 3 μm

✓ **Light source**

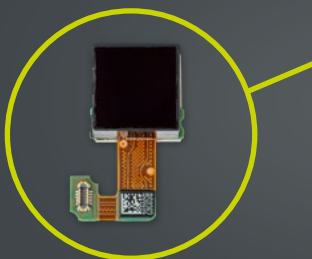
Broad wavelength range

✓ **Light filters**

CWL¹ and FWHM²
selectable

✓ **Calibration**

User-friendly self-calibration



We partner with leading tech companies:



¹ CWL = center wavelength

² FWHM = full width half maximum

Revolutionary small form factor

We are pioneering
the miniaturization
of NIR spectroscopy

trinamiX is taking NIR spectroscopy a huge step further by seamlessly integrating the proven technology into a smartphone.



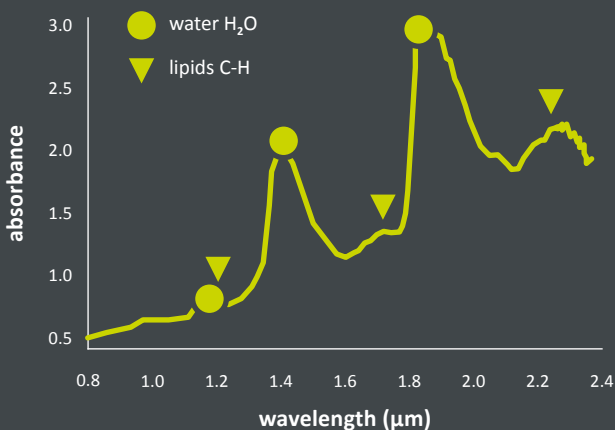
We provide a fully functional spectrometer in a revolutionary small form factor, that comes together with chemometrics software and allows for integration into various consumer or commercial devices.

About NIR spectroscopy

Making the invisible visible

trinamiX Consumer Spectroscopy uses near-infrared (NIR) spectroscopy, a method for analyzing organic materials. Infrared radiation with a wavelength of 1–3 μm is used to obtain information about the chemical composition of a sample.

The light is absorbed, scattered, and reflected as it passes through the sample. This produces a characteristic spectrum, which is then compared with reference spectra to draw conclusions about the concentration or presence of certain components.



Near-infrared (NIR) spectroscopy utilizes the molecular characteristics of relevant biomarkers such as water and lipids to provide accurate and reliable information about hair and skin conditions. The direct measurement on a molecular level enables the simultaneous but independent assessment of different biomarkers.

Flexible solution

Integration into any beauty tool

The trinamiX Consumer Spectroscopy reference design is available for integration into smartphones and other consumer devices. Please reach out to us to discuss your specific application requirements in more detail.



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About

trinamiX

trinamiX GmbH develops cutting-edge biometric and mobile NIR spectroscopy solutions, which are used in both consumer electronics and industrial designs. The company's products enable humans and machines to better capture data with the goal of understanding the world around us.