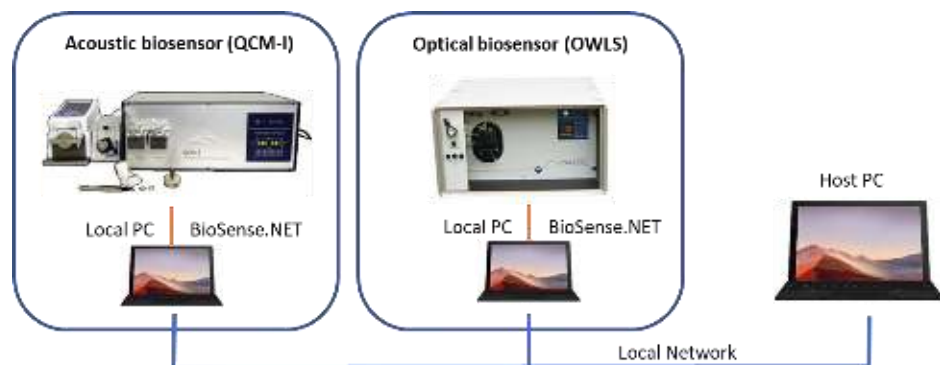


## Combined Optical and Acoustic Measurements

The **QCM-I 3000** is a Biosensor System for Combined “Wet” and “Dry” Mass Measurements. It combines:

A high-sensitivity, acoustic, hydrated mass sensing instrument, **QCM-I**, with an optical waveguide sensor, **OWLS**, which probes layer thickness, refractive index and dry mass.

The combination provides unprecedented information about the interactions of molecules, polymers and biological assemblies with surfaces; label-free and in real time.



## Control & Measurement

Measurements run in parallel and can be controlled over LAN from a host PC. Synchronised electrochemical measurements are also possible.

See QCM-I and OWLS 210 data sheets for full specification.

## References

Data evaluation for surface-sensitive label-free methods to obtain real-time kinetic and structural information of thin films: A practical review with related software packages. A.Saftics, S.Kurunczi, B.Peter, I.Szekacs, J.Ramsden, R.Horvath, *Adv Colloid Interface Sci.* (2021) doi: 10.1016/j.cis.2021.102431

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The Density and Refractive Index of Adsorbing Protein Layers. J Vörös, *Biophys J.* (2004) doi: 10.1529/biophysj.103.030072