

## Press Release

A-GB-09008

December, 2009

**Worldwide most-sensitive fluorescence detectors**

**Sensitivity merged with efficiency**

**Ultra-high sensitivity detecting trace-level compounds /**

**For *fast LC* and ultra-fast analysis /**

**Easy maintenance reduces running costs**

Shimadzu, one of the world leaders in analytical instrumentation, has introduced a new series of fluorescence detectors. The RF-20A and RF-20Axs cover the full range of applications from routine analysis to high-performance analysis particularly in food, pharmaceutical and environmental applications as well as for the determination of amino acids. The high-end version RF-20Axs is the most sensitive fluorescence detector world-wide<sup>1</sup> enabling the detection of trace-level compounds.

**For *fast LC* and ultra-fast analysis**

The detectors complete the prominence LC / UFLC families with ultra-high sensitivity and *fast LC* capabilities. The RF-20A and -Axs series are based on a newly developed optical system. They offer a dual-channel mode and a data acquisition speed of up to 100 Hz, enabling ultra-fast analysis of just 10 ms response and an ultra-high sensitivity. They serve applications requiring lowest possible detection limits.

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<sup>1</sup> water Raman S/N ratio of at least 2.000 for the RF-20Axs and 1.200 for the RF-20A

The high-end RF-20Axs provides a cell temperature control with cooling function. It ensures a constant detector cell temperature leading to excellent reproducibility without any loss of sensitivity. Furthermore, the RF-20Axs supports automatic validation of the wavelength by a built-in Mercury lamp. This feature supports multiple components analysis.

### **Ease of maintenance reduces running costs**

The flow cell and the lamp are accessible from the front-side and provide easy maintenance, reducing running costs and downtime. No tools are required to replace the flow cell. In comparison to previous models, the life time of the Xenon lamp has been extended by a factor of 4 up to 2.000 hours. Due to a pre-adjusted lamp on a special holder it is unnecessary to adjust and tune the optical system after a lamp exchange.

Both detectors, the RF-20A and RF-20Axs offer an outstanding price-performance-ratio.



**Image 1:** RF-20A / RF-20Axs

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