

Hamamatsu's UV-spectrometer enables real time measurement of multiple parameters in water analysis

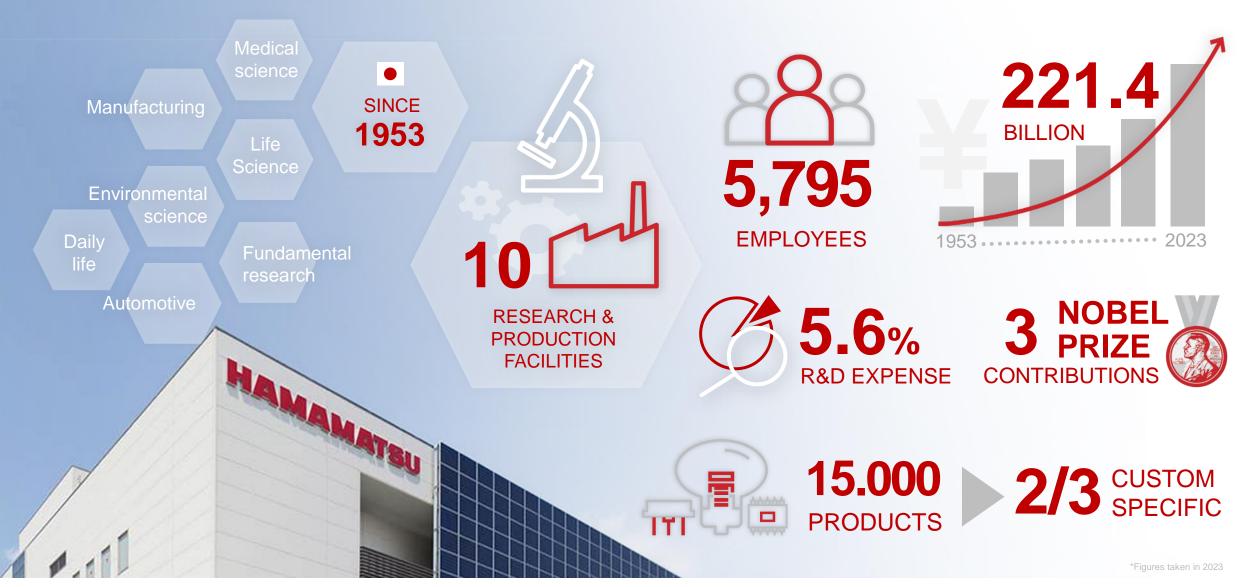
Gaetano Panagia

Technical Marketing Engineer

EPIC Members New Product Release, October 22nd 2024

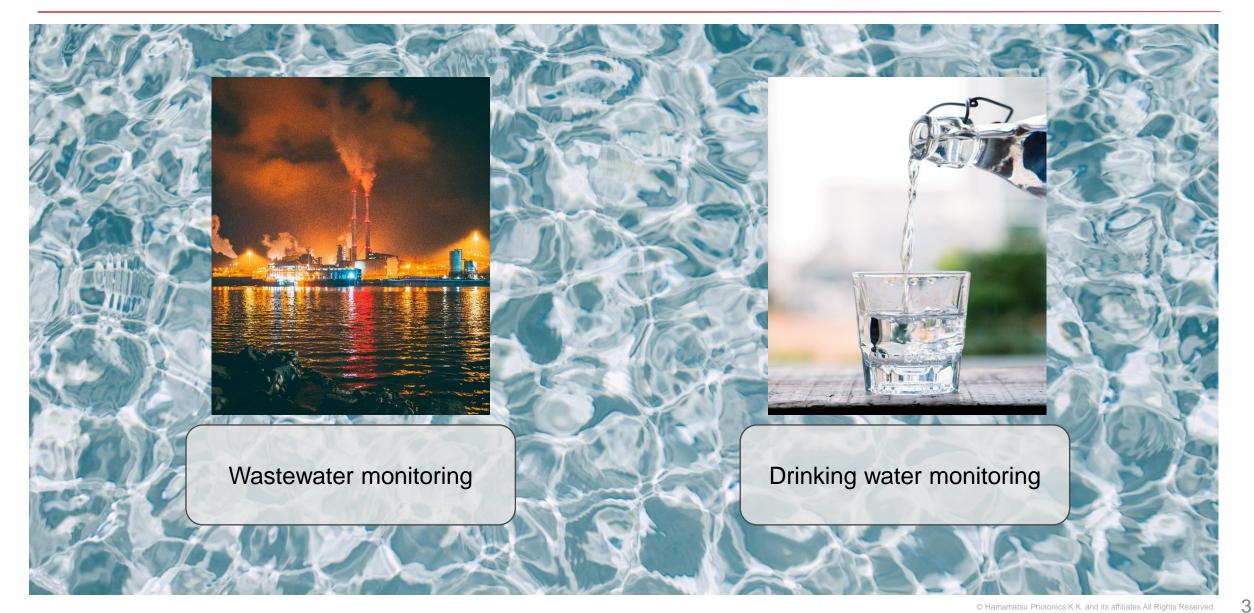
Hamamatsu Photonics





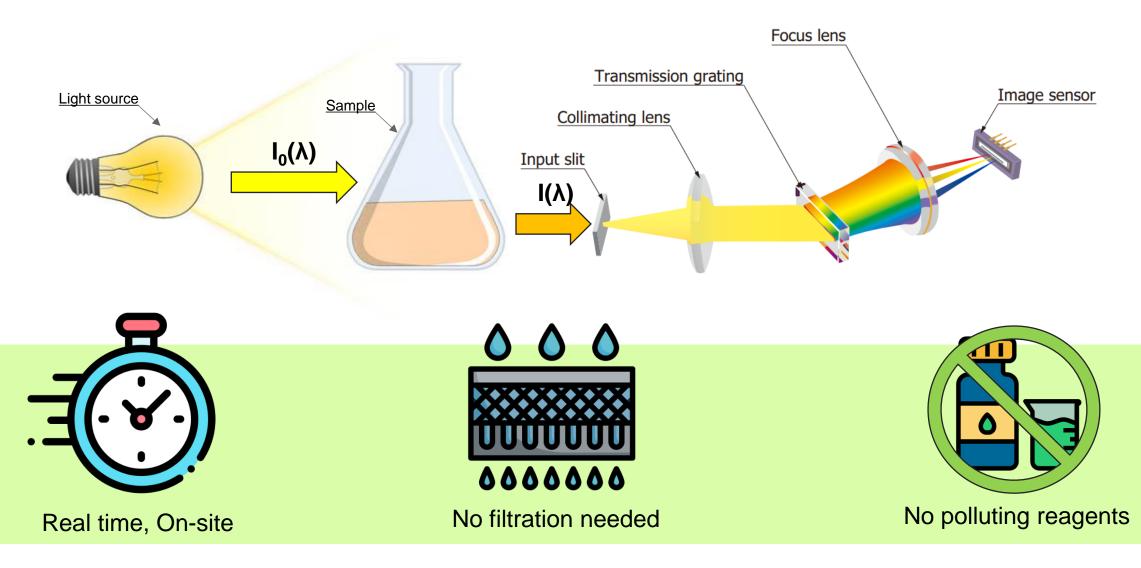
Water Quality Monitoring





Absorption Spectroscopy

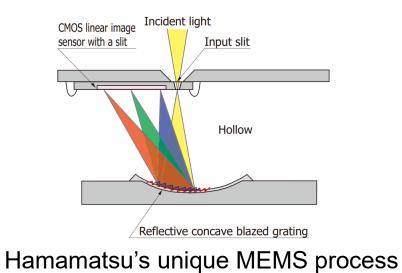


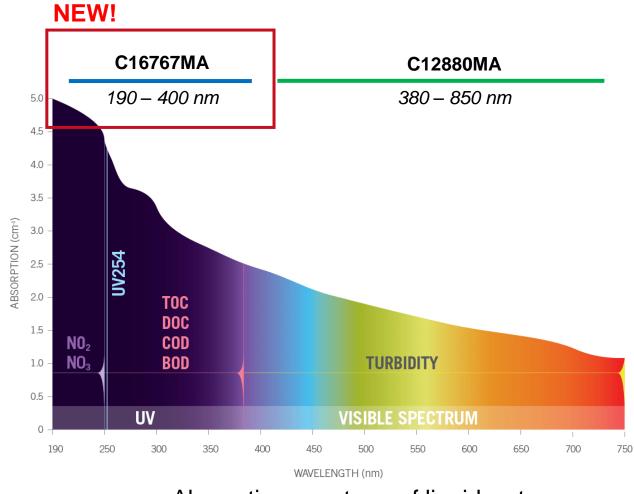


Hamamatsu's miniaturized spectrometers









Absorption spectrum of liquid water From https://realtechwater.com/blog-post/overview-i-uv-absorbance/

New Miniaturized UV-Spectrometer – C16767MA

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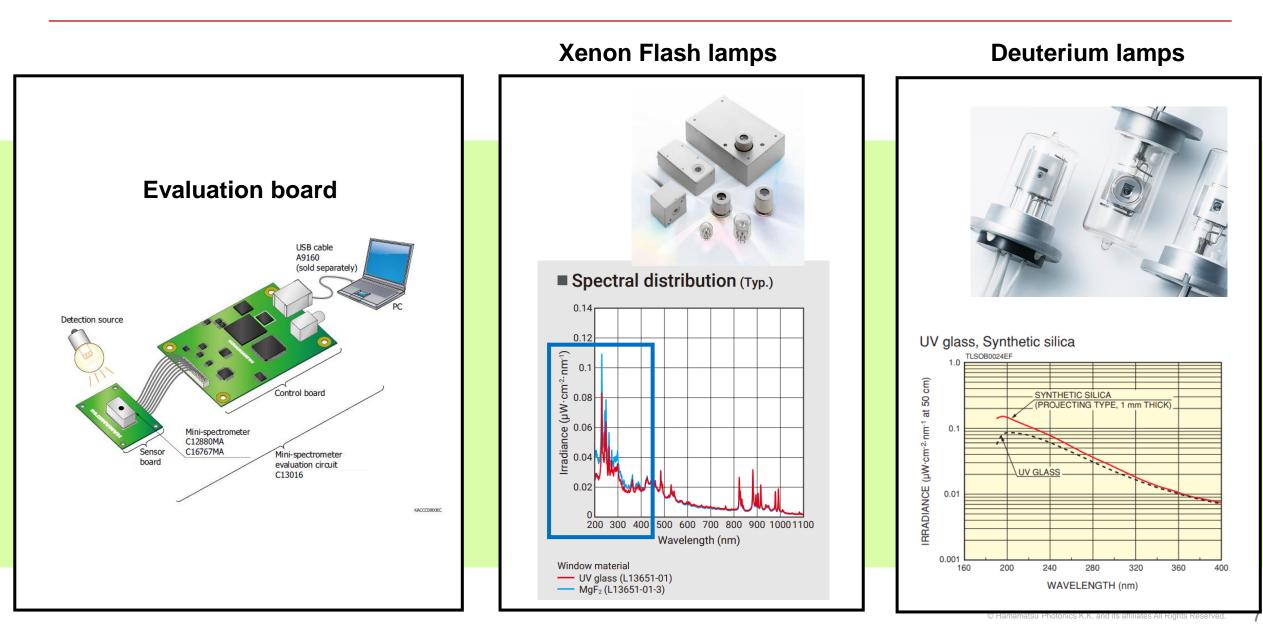
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Ideal for real-time water quality analyzers Dimensional outline (unit: mm, tolerance unless otherwise noted: ±0.2) Compact **∮**3.2^{+0.1} $\frac{\text{Slit}}{0.05 \times 0.}$ Spectral response range: 190 – 440 nm [Top view] 0.91 Spectral response 20.12 Index mark Spectral resolution: 5 nm (typ.) C16767MA Slit position (Ta=25 °C) 18.53 100 SNR: 291:1 [Side view] Dynamic Range: 5000 sensitivity (%) ± 0.3 0.47 ± 0.03 Low power consumption anne: Electronic shutter function for synchronization with 20 light sources 100 200 300 400 500 Wavelength (nm)

Complementary Technology





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Risk mitigation



Collaborative concept development including Photon Hub Europe's

collaboration



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