

New FDSS-GX: the highest-performance kinetic plate imager in the FDSS series

News provided by:

Hamamatsu Photonics Europe

February 27, 2023

[Contact us](#)

Share this article:



FDSS-GX Kinetic Plate Imager: C15711-02

Hamamatsu Photonics announces the release of a new high-speed kinetic plate imager, the FDSS-GX, ideal for kinetic cell-based assay development, including GPCR / ion channel research and screening for drug discovery. It offers a reliable and stable high-throughput screening, facilitating whole microplate imaging and simultaneous injections to all wells.

Its main benefits include a strong performance in terms of dispensing accuracy and repeatability when performing assays. Compared to the previous model, the 1536 dispenser operates more effectively, improving usability, stability, and reliability. In fact, dispensing units in 96, 384, and 1536 ch are now included to cover all the different needs within the same instrument. These dispensing units have independent metal piston cylinders and dispensing tips dedicated to the FDSS-GX.



Dispensing unit (1536-tip type) A15623-28



1536 black tips (10 racks) for FDSS-GX A8687-82

Another key benefit is its high sensitivity achieved through the integration of Hamamatsu's renowned qCMOS sensor, which is incorporated into the world's first photon-resolving camera. It enables high-quantitative performance for low-light imaging, useful for fluorescence and luminescence measurements. Additionally, it provides a larger resolution and field of view, pushing the limits in terms of measurement accuracy.

The FDSS-GX also includes a high-precision epifluorescence optical system with high power and a long-life xenon lamp developed in-house. Finally, a range of options is available in the system's inner layout including a stacker unit, robot integration, three washing stations with an option for a high-power ultrasonic tip washer, and much more.

Visit the product page for more information: <https://www.hamamatsu.com/jp/en/product/life-science-and-medical-systems/kinetic-plate-imager.html> or [Contact us](#)

About Hamamatsu Photonics

We offer reliable kinetic plate imaging systems for academic, pharma, and biotech professionals. Present since 1953 and driven by Japanese excellence, our capabilities are rooted in photonics technology including optics, electronics, mechanics, and software. We support our customers' ambitions to improve drug-screening applications for drug discovery, safety tox, and disease modelling. www.hamamatsu.com

Keywords: kinetic imaging, microplate imaging, life science, GPCR, ion channel, drug discovery [Contact us](#)
Market: Life sciences
