

FLUOREYE

On-Deck Fluorescence Detection



High Functionality in a Compact Size

Easily upgrade your Liquid Handler for automated DNA/RNA quantification



Streamlined Quantification

From Reading to Normalization without manual interaction



Rapid, Reliable Results

Measure 96 wells in less than three minutes

INTRODUCING FLUOREYE

THE ON-DECK FLUORESCENCE DETECTION SOLUTION

Are you looking for a reliable and affordable fluorescence detection system that integrates seamlessly with your Hamilton Liquid Handling System? If so, then Fluoreye is the perfect solution for laboratories. With its compact size and minimal space requirements, Fluoreye can be easily integrated into your existing setup, whether it's a first-time project or a retrofitting effort. And with only one SLAS/ANSI position required, you can easily upgrade your current equipment with Fluoreye's fluorescence detection capabilities – without the need for expensive integration, housing, transport devices or programming efforts for collision avoidance. The two excitation and two detection wavelengths allow for fully integrated DNA or RNA quantification, and the subsequent normalization without user interaction make Fluoreye compatible with many kits on the market.

- Easy retrofitting - reader moves while the plate can stay in place
- Easy integration concepts for Hamilton's STAR, STAR V and VANTAGE line, as well as Hamilton's Assay Ready Workstations NGS STAR, NGS STAR V
- Full deck accessibility* for fast and efficient data collection
- Single source for all hardware and software, making integration a breeze
- Sensitive fluorescence detection for increased specificity
- Uses the sequence concept of VENUS - fast, easy and dynamic

*Fluoreye is transported with a 1000 μ L Pipetting Channel and therefore faces the same restrictions (e.g. for 16 Channel Instruments).



Fluorescence DETECTION

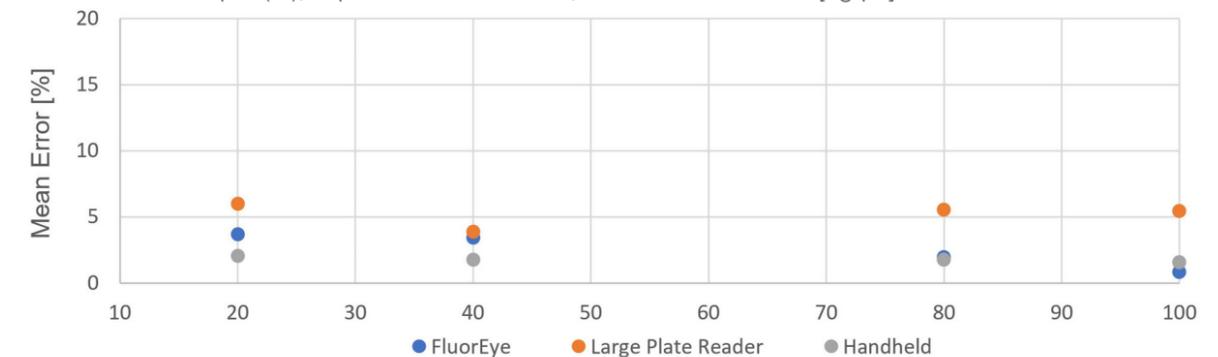
Fluoreye is the ideal fluorescence detection solution for laboratories looking to upgrade their current systems or build new projects from scratch. The technology is specifically designed to be easy to integrate with existing systems; meaning that you can get up and running with Fluoreye quickly and without hassle.

WHAT MAKES FLUOREYE UNIQUE?

- Compatible with a range of fluorescence kits available on the market
- User-friendly Hamilton software for seamless integration
- Multiple wavelengths and measuring modes for greater compatibility
- Ambient light compensation - no shaded / dark housing needed
- No need for plate transports – keep your samples heated, cooled, or even on a shaking position

DATA COMPARISON

Difference Total Input (%), expected vs. measured, mean absolute value [$\text{ng}/\mu\text{L}$]



As an example, the values measured with the dsDNA Kit from Promega shows that all three test candidates provide results in the same range. While the manual solution is ideally adjusted to this kit, both the Plate Reader and Fluoreye show within minimal variations.

Applications:

- DNA and RNA measurement (quantification)
- Normalizing samples for example during NGS library preparation
- Pooling samples for example during NGS library preparation

Accurate and Reliable

When it comes to fluorescence detection, accuracy and reliability are essential. On the other hand, laboratory space is also an issue. With Fluoreye, you can be confident that your data is both accurate and reliable, giving you the information you need to make informed decisions about your projects. Fluoreye is the complete solution you need for all your fluorescence detection needs, and it only uses one SLAS/ANSI position on your deck.

WHAT ARE THE ADVANTAGES OF FLUOREYE?

- Easily retrofitted for existing systems
- Cost-effective solution for laboratories looking to upgrade their current systems
- Different wavelengths and measuring modes for increased versatility
- Large portfolio of tested kits for all your fluorescence detection needs
- Increased sensitivity and specificity, as compared to other detection methods
- Demo methods for measuring and calculation available, as well as a library for even more flexibility

UPGRADE TO FLUOREYE TODAY

In summary, Fluoreye is the cost-effective, compact, and easy-to-integrate fluorescence detection module you've been waiting for. Upgrade your pipetting automation with Fluoreye today and experience the benefits for yourself.

TECHNICAL DATA

Description

Reading time: ~3 min per 96 well plate (two wavelengths + ambient light compensation)

Excitation wavelengths: 470 nm / 625 nm

Detection wavelengths: 520 nm / 680 nm

More than 6000 measurements (in full mode) possible with single charge

Encrypted Bluetooth communication from Mobile Device to Base Station

© 2023 Hamilton Company. All rights reserved. All trademarks are owned and/or registered by Hamilton Company in the U.S. and/or other countries. Lit. No. F-2303-09 – 03/2023

HAMILTON

To find a representative in your area,
please visit:

www.hamiltoncompany.com/contact
4 Email: infoservice@hamiltonrobotics.com

United States
+1-775-858-3000
United Kingdom, Ireland
+44 121 272 92 80
Brazil
+55 11 95914 5000
China
+86 21 6164 6567

**Denmark, Norway,
Sweden, Finland**
+46 8410 27 373
France
+33 184 008 420
**Germany, Austria,
Switzerland**
+49 89 248 804 804

Benelux
+31 40 209 178 0
Italy
+39 039 930 06 06
Japan
+81 3 6435 6850
Spain, Portugal
+34 930 186 262

