



Thermo Scientific GENESYS G5 Software

Proven GENESYS dependability.
Greater flexibility.

Versatile absorbance measurements for research and industry

Laboratories today face increasing pressure to deliver fast, reliable results while managing growing data complexity, shifting compliance requirements, and evolving workflows. Many UV-Vis spectrophotometer systems force operators to balance ease of use, analytical flexibility, and regulatory readiness, often imposing compromises between operational simplicity and advanced functionality.

Thermo Scientific™ GENESYS™ G5 Software was designed to address these challenges by combining intuitive operation, scalable processes, and flexible data management in a modern software platform.



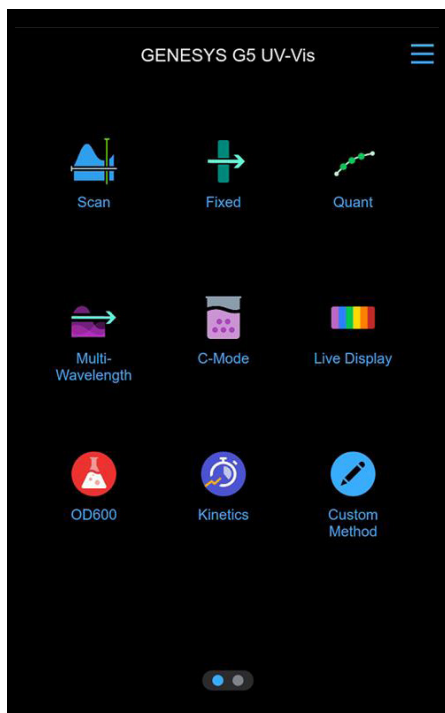


Figure 1. GENESYS Instrument screen.

Get the applications that match your workflow

GENESYS software supports a wide range of applications across key industries. Pre-configured methods simplify water and wastewater analysis, while life sciences workflows enable DNA, RNA, and protein quantification as well as cell density measurements. In food and beverage environments, standardized methods help ensure batch-to-batch consistency, and add-on color calculations such as $L^*a^*b^*$ and L^*C^*h support rapid, accurate color analysis.

Use your PC for control of advanced analyses

Optional PC software extends instrument control to a connected computer, giving operators a choice of how to control advanced workflows such as scanning, kinetics, and quantitative analysis with enhanced data handling and reporting capabilities. This added flexibility allows users to tailor their setup to their lab environment and workflow preferences.

Support compliance as your needs evolve

GENESYS software also provides tools to support data integrity and regulatory requirements. User access controls, digital signatures, and audit trails help ensure secure and traceable data management, making it easier to adapt to increasingly regulated environments.

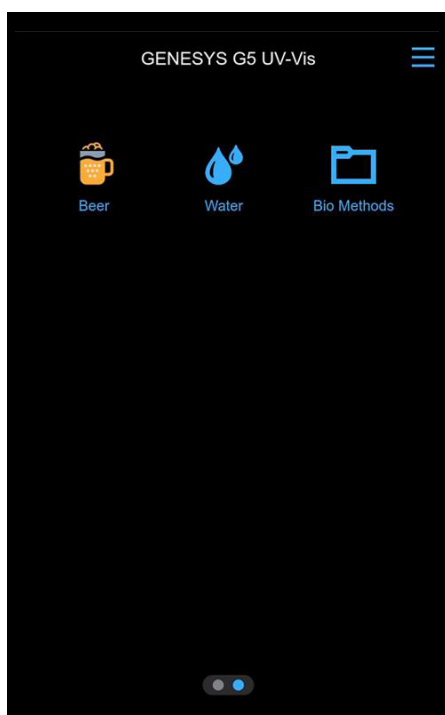


Figure 2. GENESYS Instrument screen with optional add on software.

Choose the options you need as your lab grows

With flexible software options and expandable capabilities, GENESYS software allows you to choose only what you need today while maintaining the ability to grow in the future. From simple measurements to more advanced and regulated workflows, GENESYS software delivers dependable performance with greater flexibility.

Most software modules are optional and available for additional purchase.



Figure 3. GENESYS PC Control screen.

UV-Vis spectrophotometer software designed for efficient and flexible workflows

Built for immediate productivity

GENESYS onboard software enables users to begin measurements quickly through an intuitive touchscreen interface with intuitive navigation. Core measurement capabilities, including absorbance, quantitative analysis, kinetics, scanning, and OD600, are integrated into a streamlined workflow. Methods can be easily created, saved, and reused, allowing both new and experienced users to operate efficiently and consistently with minimal training.

Features to simplify operations

- Enhanced UI – Enjoy an intuitive touchscreen navigation for fast adoption
- Centralized applications – Access methods and add-ons in one place
- Custom workflows – Create, save, and reuse methods tailored to your needs
- Immediate productivity – Start measurements quickly with minimal training

Color calculation software

For applications requiring precise color measurement, optional add-on software includes built-in calculations such as $L^*a^*b^*$, L^*C^*h , and other industry-standard color metrics. It enables fast, repeatable color analysis without the need for external calculations, supporting workflows in food, beverage, materials, and quality control environments.

Custom Method application

The new Custom Method feature in GENESYS on-board software allows users to create and standardize workflows tailored to their laboratory needs. Methods can include customized calculations, factors, and conditional if/then logic to support more advanced analyses while improving consistency and efficiency.

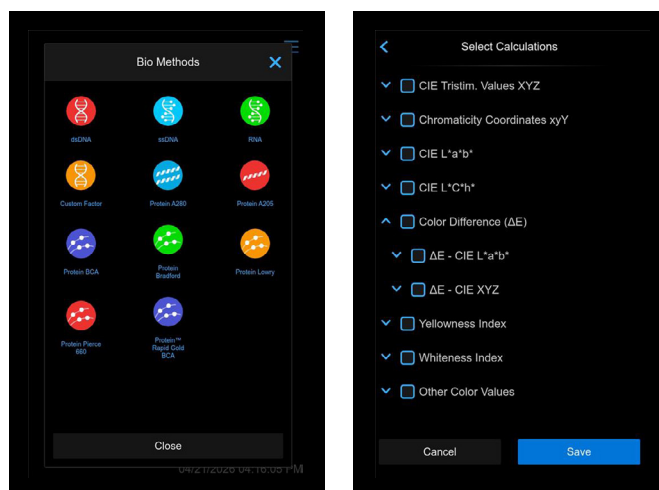


Figure 4. The GENESYS touchscreen features straightforward selection of apps and customizable methods.

Customizable software protocols for specific applications

Targeted applications. Streamlined workflows. Consistent results.

Beyond core measurement modes, GENESYS software can be expanded with application-focused packages designed to simplify complex workflows and reduce method setup time. These optional solutions provide pre-configured methods, guided workflows, and built-in calculations tailored to specific industries and analyses.

BeerCraft software

Designed for brewery laboratories, Thermo Scientific™ BeerCraft™ Software helps standardize routine quality control testing while supporting compliance with ASBC (American Society of Brewing Chemists) methods. Built-in workflows guide users through key measurements such as color, bitterness, and other critical parameters, helping ensure consistency from batch to batch. By reducing manual calculations and setup, BeerCraft software enables faster decision-making and more reliable product quality.

Water analysis software

Our specialized software for water analysis includes a library of pre-configured methods aligned with commonly used test kits and environmental workflows. The software guides users through setup and helps develop standardized routine water and wastewater analysis processes. The provided methods can be modified, or users can create their own, to support evolving protocols and maintain consistent results. The software is compatible with reagents from Thermo Scientific™ Orion™, Merck, CHEMetrics, and other providers.

Flexible control and robust data management

GENESYS software includes flexible data management capabilities designed to support everything from routine data handling to regulated laboratory environments. With tools for user management, data security, and traceability, labs can confidently manage their results while maintaining efficiency.

Integrated data handling

GENESYS software enables users to capture, store, and export data directly from the instrument or through connected PC software. Results, methods, and reports can be saved locally or transferred via USB, network, or Wi-Fi, providing flexibility in how data is managed and shared. Data can be sent directly into your LIMS with the assistance of an integrated RESTful API. For additional storage flexibility, data can be exported directly to Thermo Fisher™ Connect. This ensures that data is always accessible for review, reporting, or further analysis.

User management and access control

To support multi-user environments, GENESYS software paired with the Thermo Scientific™ SciVault™ program (available as a separate add-on) allows administrators to define user roles and permissions. This helps ensure that only authorized users can access specific functions, methods, or settings, reducing the risk of errors while maintaining workflow efficiency for both novice and experienced operators.

Audit trails and traceability

With the optional Thermo Scientific™ SciVault™ 2 Compliance Software, GENESYS software can provide audit trail functionality to track method changes, user activity, and result generation. Changes to methods, user activity, and result generation can be recorded, helping labs maintain transparency and traceability throughout the workflow. This is especially valuable in environments where documentation and accountability are critical.

Electronic signatures

Digital signature capabilities allow users to review and approve data electronically, supporting secure and traceable record-keeping. This feature helps streamline workflows by reducing reliance on paper-based processes while maintaining data integrity.

Designed for regulated environments

For laboratories operating in regulated environments, GENESYS software paired with optional SciVault 2 functionality supports compliance with requirements such as 21 CFR Part 11. The software's built-in security controls, audit trails, and electronic signatures help laboratories maintain accurate, secure, and properly documented records.

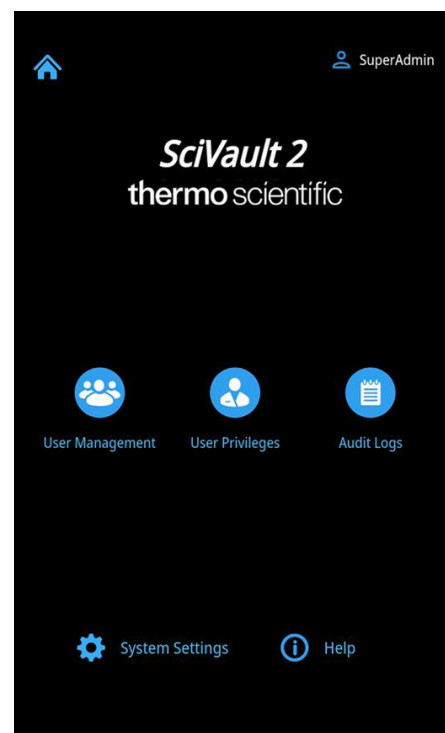


Figure 5. SciVault 2 application homescreen.

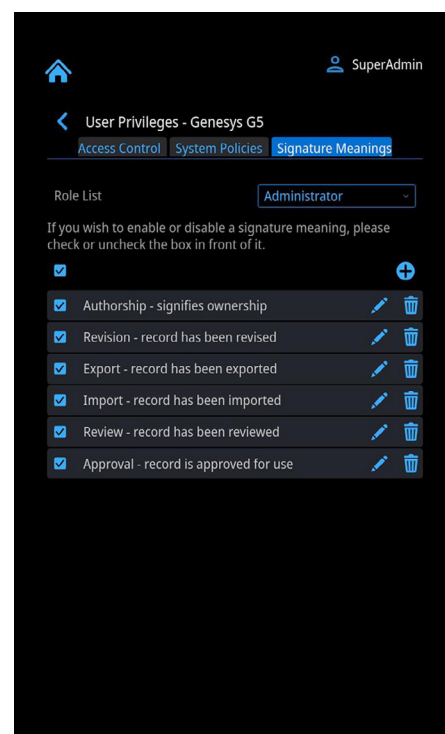


Figure 6. Signature control screen in SciVault 2.

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