



ThermoFisher
S C I E N T I F I C

Thermo Scientific Multiskan Sky Microplate Spectrophotometer

Take your photometric research to new heights

Presenter name

The world leader in serving science

- Thermo Scientific™ Multiskan™ Sky Microplate Spectrophotometer
- Applications
- Touch-screen display
- Thermo Fisher Connect cloud-based capabilities
- Thermo Scientific™ SkanIt™ Software for flexibility, control, and data handling
- Key benefits
- Ordering information

Multiskan Sky Microplate Spectrophotometer

- New-generation UV/Vis microplate spectrophotometer
- For virtually any photometric research application, especially DNA, RNA, and protein analysis
- Superior versatility for academic, biotech, and pharmaceutical laboratories



Three Multiskan Sky Microplate Spectrophotometer Configurations



Multiskan Sky Microplate Spectrophotometer with Cuvette and Touch Screen*

- Offers flexibility to use the instrument as a stand-alone or with SkanIt PC software
- Offers additional cuvette-reading functionality



Multiskan Sky Microplate Spectrophotometer with Touch Screen*

- Offers flexibility to use the instrument as a stand-alone or with SkanIt PC software

Multiskan Sky Microplate Spectrophotometer, operated only with the SkanIt PC software

- Ideal for users who rely on a PC for all operations



* Allows access to Thermo Fisher Connect cloud-based capabilities. Can be connected to the local area network.

Innovative Multiskan Sky User Interface (UI) for Stand-Alone Use*

- Intuitive, easy-to-use, and UI-optimized for touch-screen use
 - Ready-to-use protocols for DNA, RNA, and protein quantification
 - Endpoint, kinetic, or spectral measurements
- Freedom to access data
 - Compatible with Thermo Fisher Connect cloud-based capabilities
 - Wired or wireless network connection
 - USB flash drive
- Nine languages available for UI



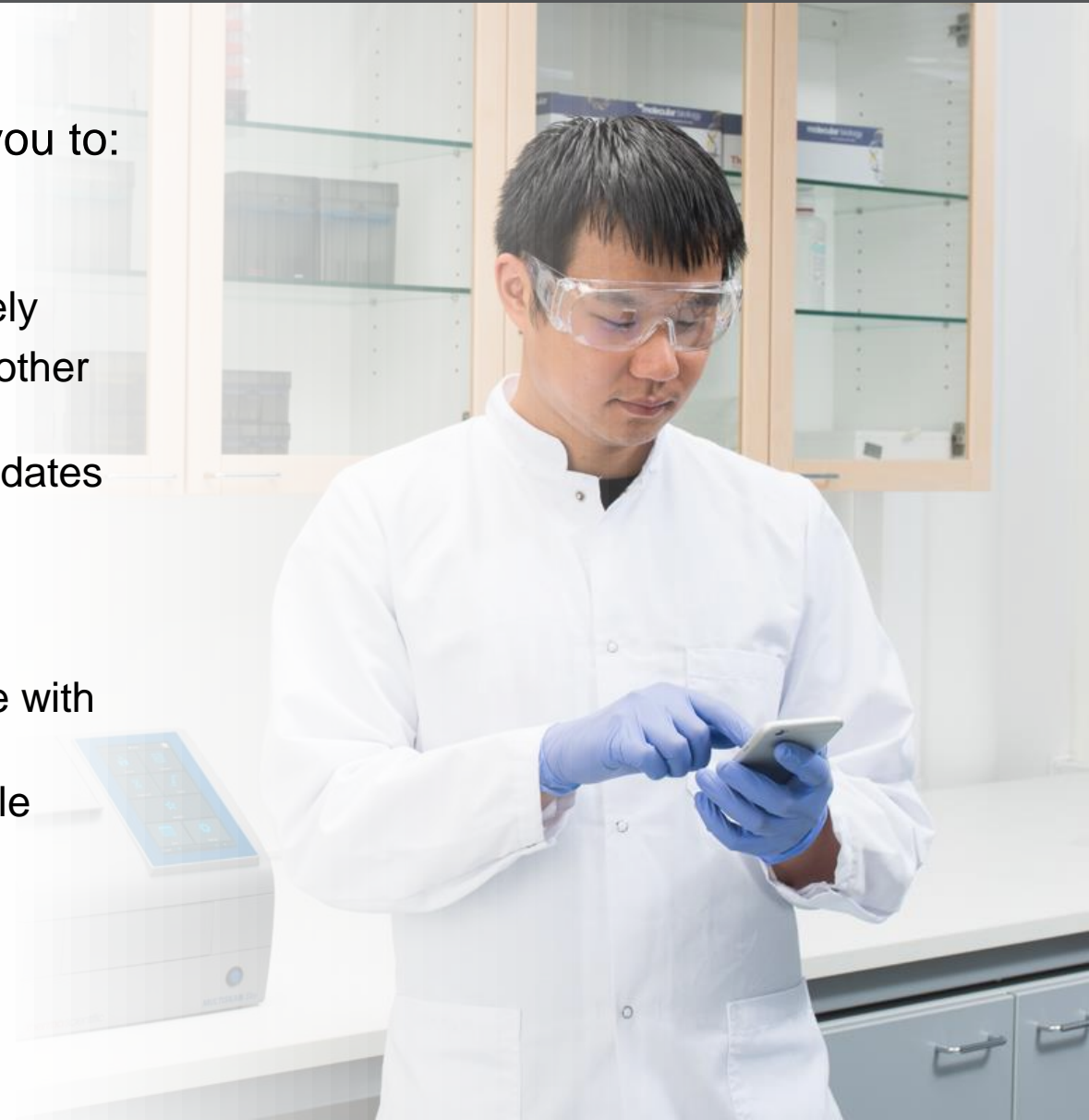
* For models with touch-screen displays.



Thermo Fisher Connect cloud-based capabilities enable you to:

- Upload measured data automatically or manually from your instrument to your cloud account
- Securely store, access, share, and manage your data remotely
- Share data with research team members or colleagues in another lab, location, or country
- Receive automatic notification of new instrument software updates
- Upgrade instrument software at your convenience
- Monitor the status of your instrument from your PC or Mac™ computer
- Monitor the status of your instrument from your mobile device with the “Instrument Connect” app
- Manage instrument reservations from your computer or mobile device

Enjoy the freedom to access your data remotely



* For models with touch-screen displays.

Skant Software Versions

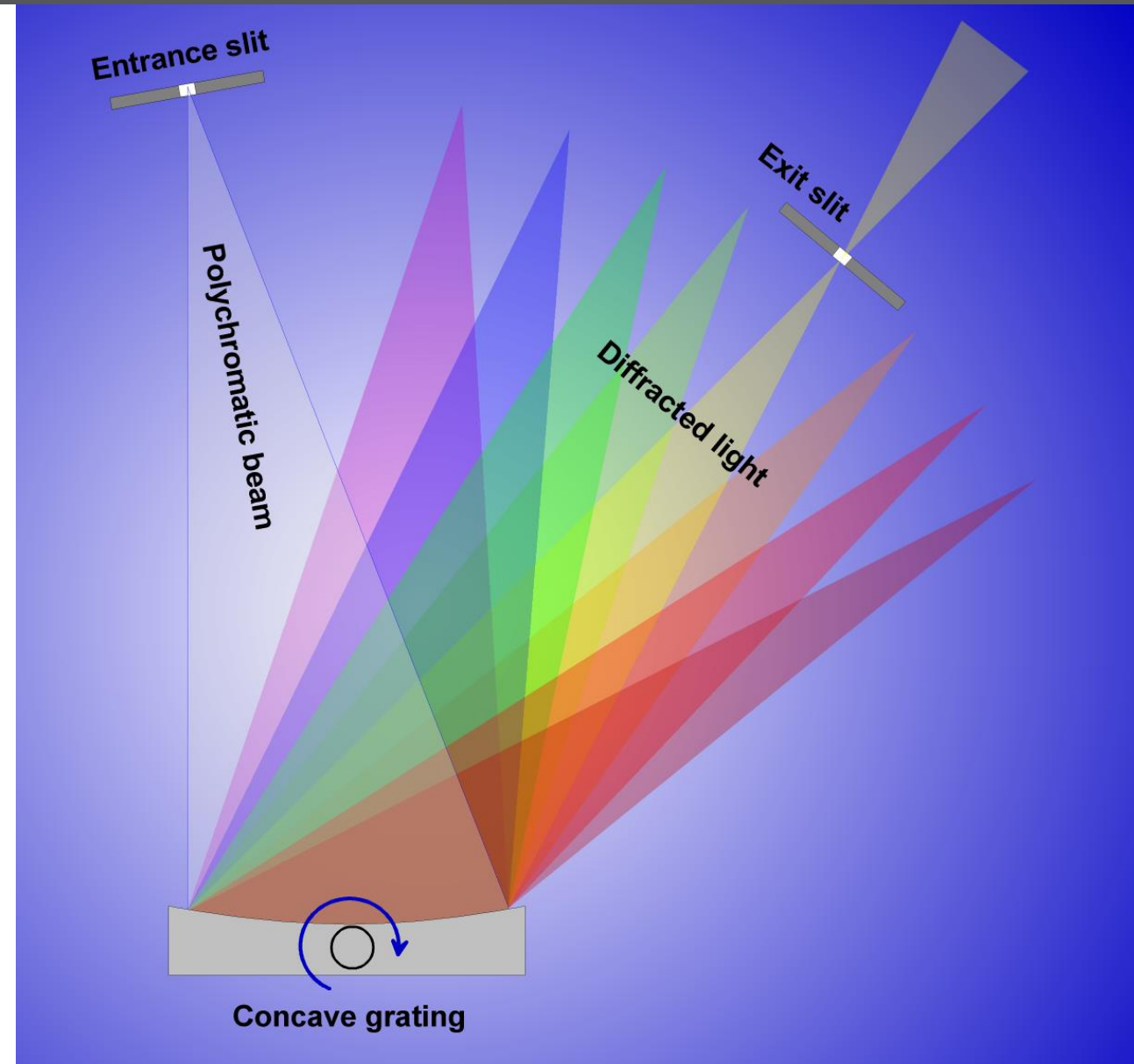
- Skant Software sets up even demanding assays
 - Research Edition comes with all reader models
 - Drug Discovery Edition is sold separately
 - Offers features for FDA 21 CFR Part 11 compliance



Why Limit Your Assay Repertoire to Only a Few Wavelengths?

- Enjoy the freedom to switch between assays without limitation
- Free wavelength selection enabled by monochromator technology
- No need to purchase filters — Helps save time and money
- Wide spectral range, 200 –1000 nm in 1 nm steps

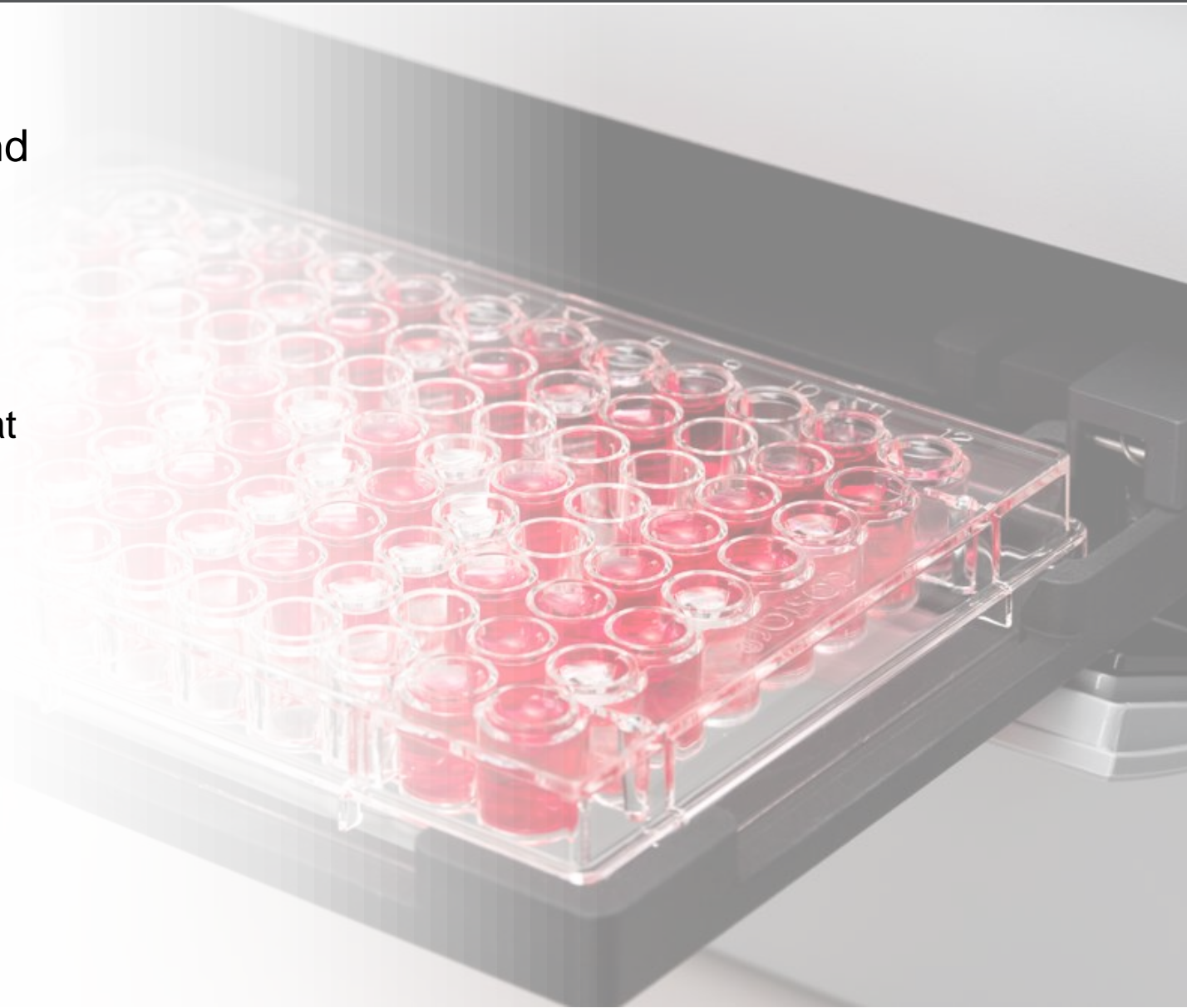
Easily adaptable for different assays



High-Quality Data and Consistent Performance

- Dual-beam optical system with an internal reference channel for excellent stability and precision
- Built-in self diagnostics
 - Automatic checking of instrument functions at start-up
 - Continuous runtime control of optical and mechanical functions

**Stable day-to-day and year-to-year
performance and reliability**



Flexibility in Sample Formats and Throughput

- 96- and 384-well microplates
 - With or without lids



- Versatile cuvette formats
 - Standard, semi-micro, micro, ultra-micro



- Thermo Scientific™ μ Drop™ Plate for low-volume measurements
 - Nucleic acid and protein quantification



- Increased throughput with automation



Adaptability to a Variety of Photometric Applications

Nucleic acid quantification

**Protein assays
(direct quantification
and colorimetric assays)**

Bacterial growth assays

**Cytotoxicity and cell viability
assays**

Cellular proliferation assays

Apoptosis assays

Enzyme activity assays

Spectral assays

Kinetic assays

Immunoassays (including ELISA)

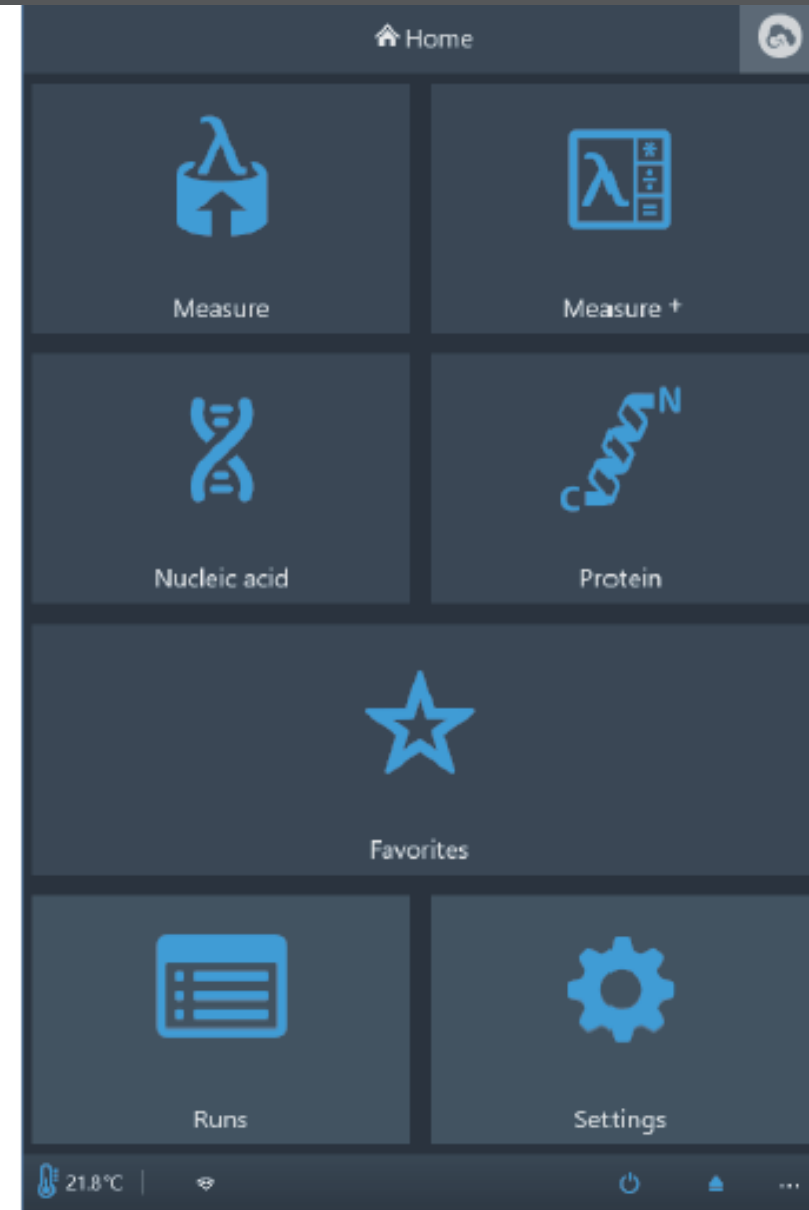
**Colorimetric and turbidimetric
endotoxin assays**



Photometric assays in a variety of formats

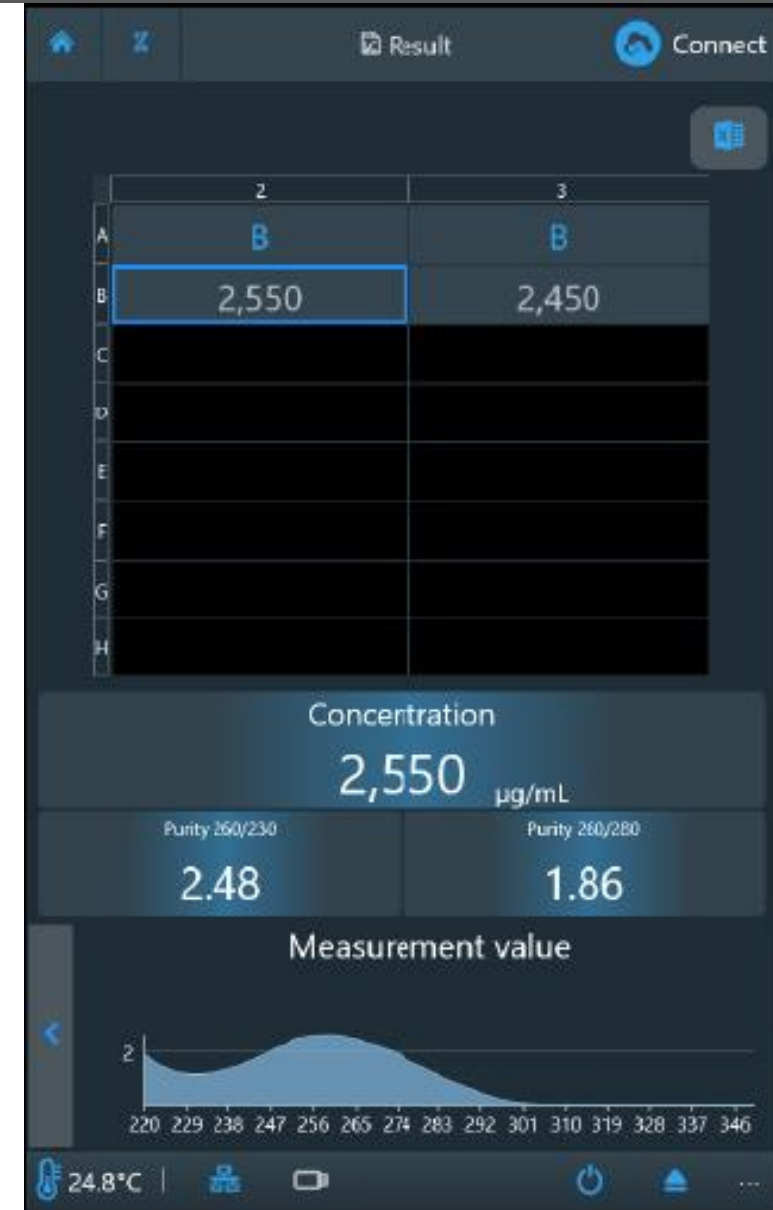
Multiskan Sky Touch-Screen Display

- Measure: endpoint, kinetic, and spectrum
- Measure +: absorbance measurements followed by basic calculations
- Nucleic acid: DNA and RNA quantification
- Protein: protein quantification
- Favorites: saved measurements
- Runs: results of previously run measurements
- Settings: instrument, network and USB, and μ Drop Plate settings



Built-in Protocols for Nucleic Acid Quantification*

- Quantify nucleic acids
 - dsDNA, ssDNA, RNA, or custom nucleic acids
- Measure using the μ Drop Plate, microplate, or cuvette
- Visualize results
 - Calculated concentrations and purity values
 - Automatic background correction at 320 nm
 - Spectral views

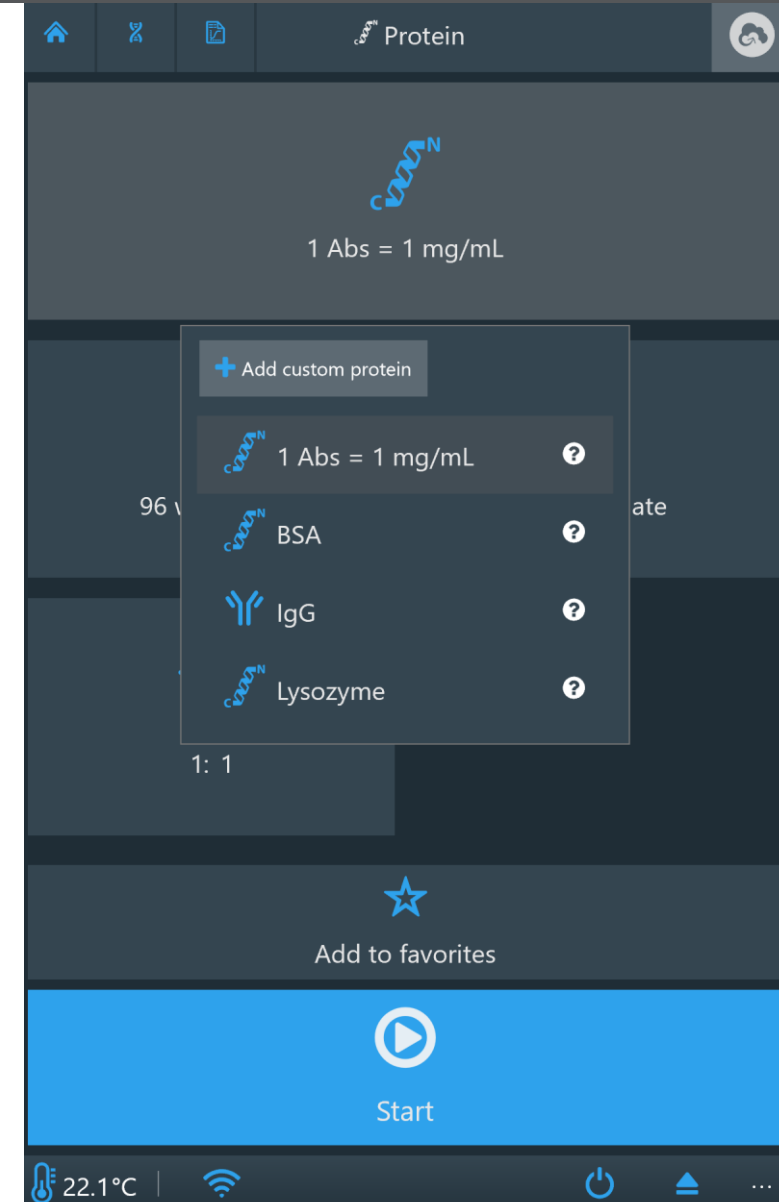


* For models with touch-screen displays.

Built-in Protocols for Direct Protein Quantification*

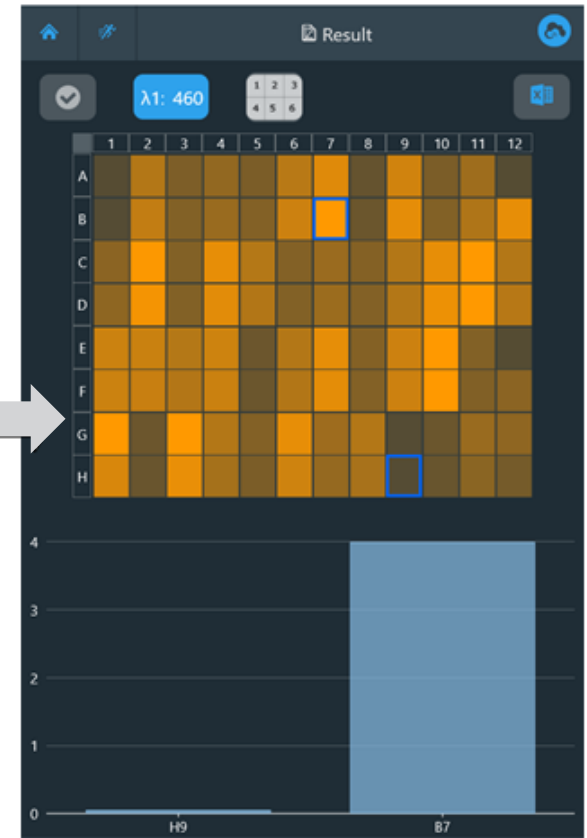
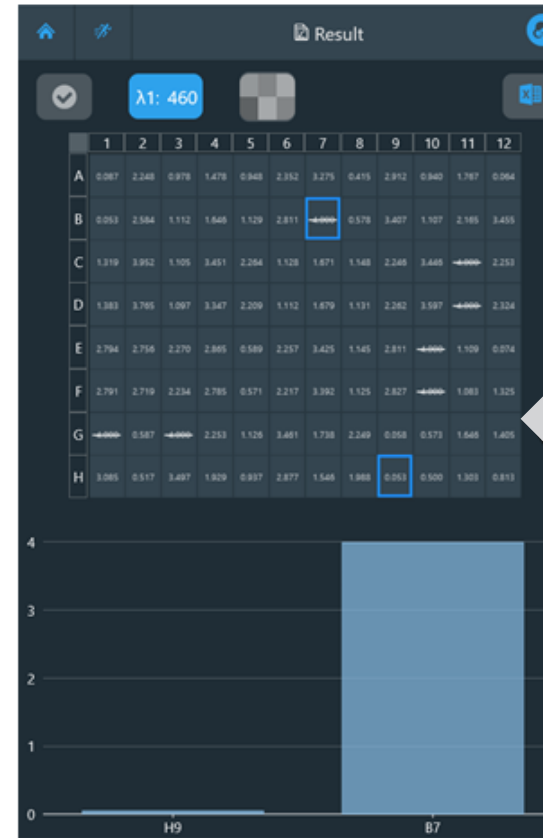
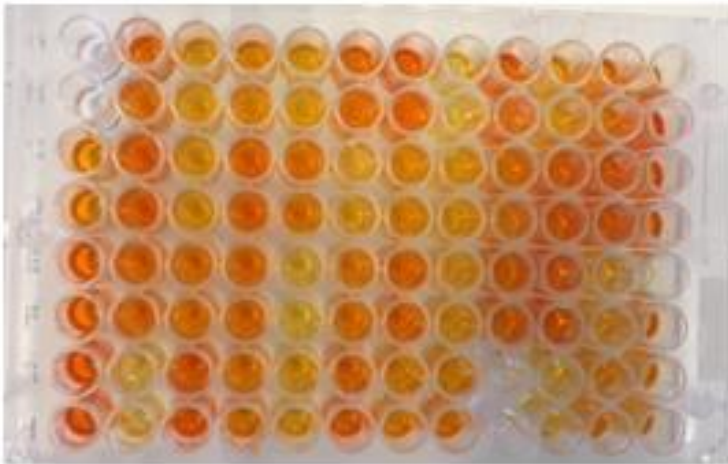
- Applicable to four different protein types or custom protein
 - Abs = 1 mg/mL, BSA, IgG, Lysozyme, custom protein
- Measure using the μ Drop Plate, microplate, or cuvette
- Visualize results
 - Calculated concentrations and purity values
 - Automatic background correction at 320 nm
 - Graphical views

* For models with touch-screen displays.



Innovative Heat Maps*

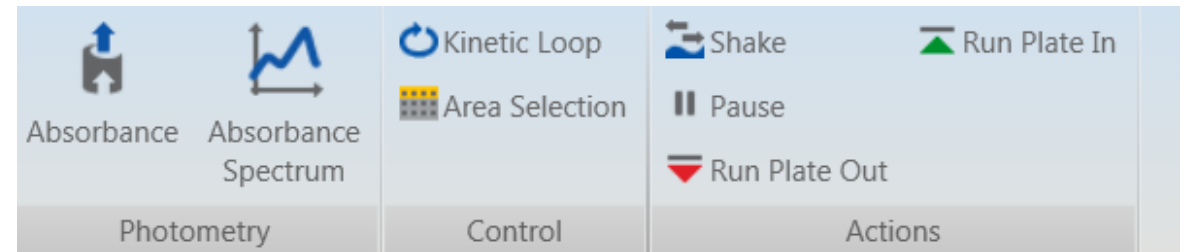
- Visualize the endpoint results in a mirror-like mode that closely resembles the colors of the assay plate
- View numerical or heat-map data



* For models with touch-screen displays.

SkantIt Software for Flexibility, Control, and Data Handling

- Easy to navigate and set up measurement sessions
- The Thermo Scientific™ Virtual Pipetting Tool™ assists in defining plate layout
- Built-in calculation options for data analysis
- Clear online data display during run
- Data transfer to Microsoft™ Excel worksheets with a single mouse click
- Manual or automatic data export to *.xlsx, *.pdf, *.xml and *.txt data formats



SkantIt Software for Flexibility, Control, and Data Handling

- Open-license software for unlimited installations
- Choose from nine languages: English, French, German, Spanish, Portuguese, Italian, Russian, Chinese, and Japanese
- Separate user accounts for controlling access to software
- Drug Discovery Edition offers features for FDA 21 CFR Part 11 compliance
- Automation interface



Skant Software — Example Protocol Library

- Includes preloaded example sessions for Multiskan Sky
 - Internet connection required

Research Application	Assay type	Assay format
Photometric DNA assay A_{260}		μ Drop Plate
Photometric DNA assay A_{260}		96-well half-area plate
Photometric RNA assay A_{260}		μ Drop Plate
Photometric RNA assay A_{260}		384-well plate
Photometric Protein assay A_{280}	BSA	μ Drop Plate
Photometric Protein assay A_{280}	BSA	96-well plate
Photometric Protein assay A_{280}	IgG	μ Drop Plate
Photometric Protein assay A_{280}	IgG	96-well plate
Photometric Protein assay A_{280}	Lysozyme	96-well plate
Photometric Protein assay A_{280}	Lysozyme	96-well plate
Photometric assay	Bradford	96-well plate
Photometric assay	Lowry	96-well plate
Cytotoxicity assay	MTT assay	96-well plate
Cytotoxicity assay	LDH assay	96-well plate
Endotoxin assay, turbidimetric		96-well plate



Multiskan Sky Microplate Spectrophotometer Features Summary

- Flexible enough to use as a stand-alone* or with SkanIt Software
- Freely selectable measurement wavelengths from 200 to 1000 nm
- Reads 96- and 384-well plates with and without lids, or cuvettes*
- Reads μ Drop Plate for micro-volume DNA, RNA, and protein analysis
- Automation-compatible
- Onboard shaker (plate)
- Incubation up to +45°C (plate and cuvette)
- Fast reading speed
 - Reads a 96-well plate in ~6 seconds (A1 to A1)
 - Completes a full spectrum of a sample in ~10 seconds
- Can be operated in multiple languages



* Availability depends on the instrument model.

Multiskan Sky Microplate Spectrophotometer Key Benefits


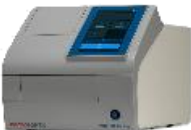

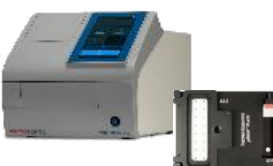

- Visualize your results promptly and with unparalleled clarity*
- Freedom to access your data at any time*
- Quick and easy DNA, RNA, and protein quantification*
- Logical and truly user-friendly SkanIt PC Software serves users of different skills and needs

Try it—the instrument speaks for itself



* Availability depends on the instrument model.

Ordering Information

Cat. No.	Model	Skant Software RE	Touch screen*	Cuvette holder	μ Drop Plate	
51119500	Multiskan Sky	✓				
51119600	Multiskan Sky with touch screen	✓	✓			
51119700	Multiskan Sky with cuvette and touch screen	✓	✓	✓		
51119600DP	Multiskan Sky with touch screen + μ Drop Plate	✓	✓		✓	
51119700DP	Multiskan Sky with cuvette and touch screen + μ Drop Plate	✓	✓	✓	✓	

* Allows access to Thermo Fisher Connect cloud-based capabilities. Can be connected to the local area network.

For More Information About the Multiskan Sky Microplate Spectrophotometer

Go to [thermofisher.com/multiskansky](https://www.thermofisher.com/multiskansky)



We are on the same wavelength

The whole Thermo Scientific™ microplate reader family is compatible with SkanIt Software



**Multiskan™ FC Microplate
Photometer**



**Multiskan™ Sky Microplate
Spectrophotometer**



**Fluoroskan™ Microplate
Fluorometer**



**Luminoskan™ Microplate
Luminometer**



**Fluoroskan™ FL Microplate
Fluorometer and
Luminometer**



**Varioskan™ LUX
Multimode Reader**

For further information, go to thermofisher.com/platereaders