

WiScan®

# HERMES Throughput, Sophistication, Robustness

**IDEA Bio-Medical** presents a revolutionary technological platform for the drug discovery industry.

Hermes and other company products, driven by this technological platform, improve the output of drug discovery processes and bring down the exorbitant costs of biomedical and pharmaceutical R&D.

Major elements of the leading technology are WiScan® and WiSoft®:

**WiScan®:** IDEA Bio-Medical's High Definition Cell Imaging technology for High Content Screening processes (HCS), which provides the unique combination of the two contradicting primary features of automated microscopy: Image Quality, and Acquisition Speed.

**WiSoft® :** IDEA Bio-Medical's effective, proprietary analysis software, which provides a significant, sophisticated image processing algorithmic library, operated by a unique and simple software interface.

Hermes incorporates the WiScan® and WiSoft® technologies, providing both image acquisition and image analysis capabilities.

IDEA Bio-Medical was founded in 2007 through a partnership between YEDA (the Weizmann Institute's commercialization arm) and IDEA Machine Development, Design and Production (an innovation hub). Hermes launched in 2011.

**Hermes** is a cost-effective High Content / High Throughput Screening system that operates at extremely **high speeds** of image acquisition and generates very **high quality** images.

Hermes is **intuitively operated**. Its built-in applications are extremely **easy to use**, and are operated at the push-of-a-button.

The Hermes system is ideal for a large **variety of applications**, including Phenotypic Screening, Spheroids and 3D models, Rare-Event detection, Cytometry, Cell Count (cytotoxicity, proliferation), Protein Expression, Cell Morphology, Cell Cycle, Protein Translocation, Intracellular Vesicles Quantification, Golgi Intracellular Distribution, Mitochondria Characterization, Cytoskeleton Structure, Nuclear and Sub-Nuclear Structures Characterization, Bacteriology and Immunology.

Hermes is a **sophisticated and flexible** system, offering fluorescence colors, bright field option, and a large range of air objectives. The system can accommodate a variety of plates and sample formats.

Hermes is a high-end, **attractively priced modular platform**, offering modular optional packages, which enable full customization for different user requirements.

Hermes' mechanisms are based on patents, creatively designed to meet heavy duty operation demands (24/7) with full process **robustness**.

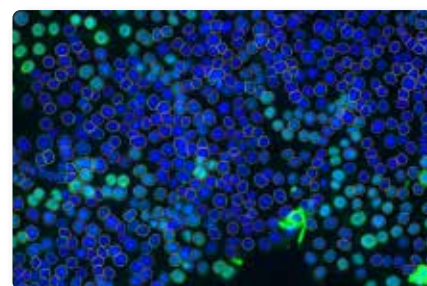
Hermes is a product of IDEA Bio-Medical, whose professional team is known for its creativity and for its responsiveness to customer for **support and service**.

## Specifications

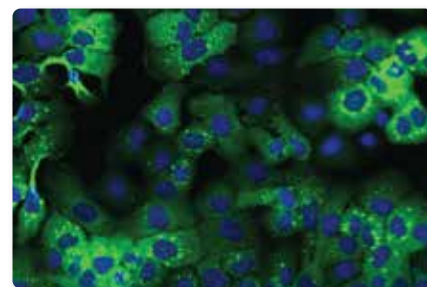
Features	Content/Description
3D reader	EPI-fluorescent inverted wide-field optics mounted on XYZ (patented) linear scanner
Auto Focus	Patented ultra-fast laser-based Auto Focus with 100nm resolution
XY motion	Accurate positioning with 200nm repeatability
Illumination sources	Fluorescence excitation up to 4 from 7 optional LED sources. (DAPI, CFP, GFP, YFP, RFP, mCherry, CY5) Transmission: White LED source
Objectives (Air)	Choice of objectives ranging from 2X to 60X
Camera	High sensitivity CCD camera 1.3MPixel
Sample format	Supports full-area screening of 24-1536 well plates. Supports slides, microarrays and 3 mm dish formats.
Optional modular packages	Full Analysis and Operational Software; High Throughput; Object Mapping; Live Cell; Automation.
Computer	PC with Windows® operating system and touch screen.
Enclosure	Allows operation in fully lit areas
Desktop standalone platform	47 W x 72 D x 54 H (cm), 18.5 W x 28.5 D x 24 H (inches) With plate cover closed
Certification	CE, UL, FCC

### Acquisition Software

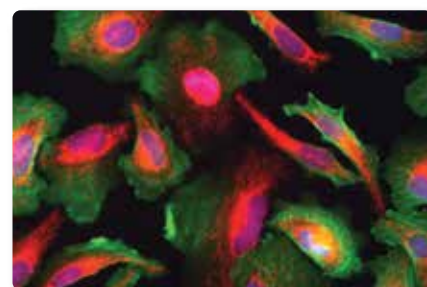
Features	Content/Description
Full automation	Totally unattended screening
Visualization	Interactive image and graphical data display
User Interface	User-friendly interface providing application-specific settings
Experiment Documentation	Full documentation of experimental parameters with the raw data
Image File Format	XML TIFF OME
Connectivity	Data transfer and remote monitoring via a network connection
Microscope Operation Mode	A special mode for interactive navigation and visualization of the samples



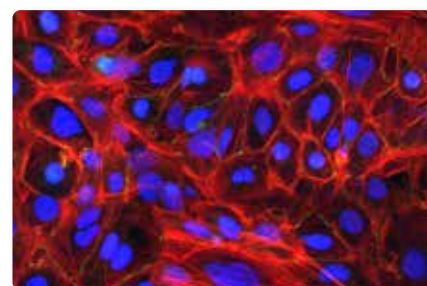
Cell Count (4x/0.16NA)



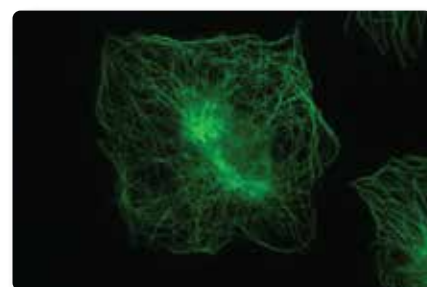
Intracellular Granules (10x/0.4NA)



Mitochondria, actin and nuclei (20x/0.75 NA)



Actin fibers and cell-cell junctions (40x/0.75NA)



Microtubules (60x/0.9NA)