The best of technology at the service of the living

LIFE SCIENCES

Cellular analysis

Genetic analysis

Automating

Detection solutions

Microplate readers

HTDS

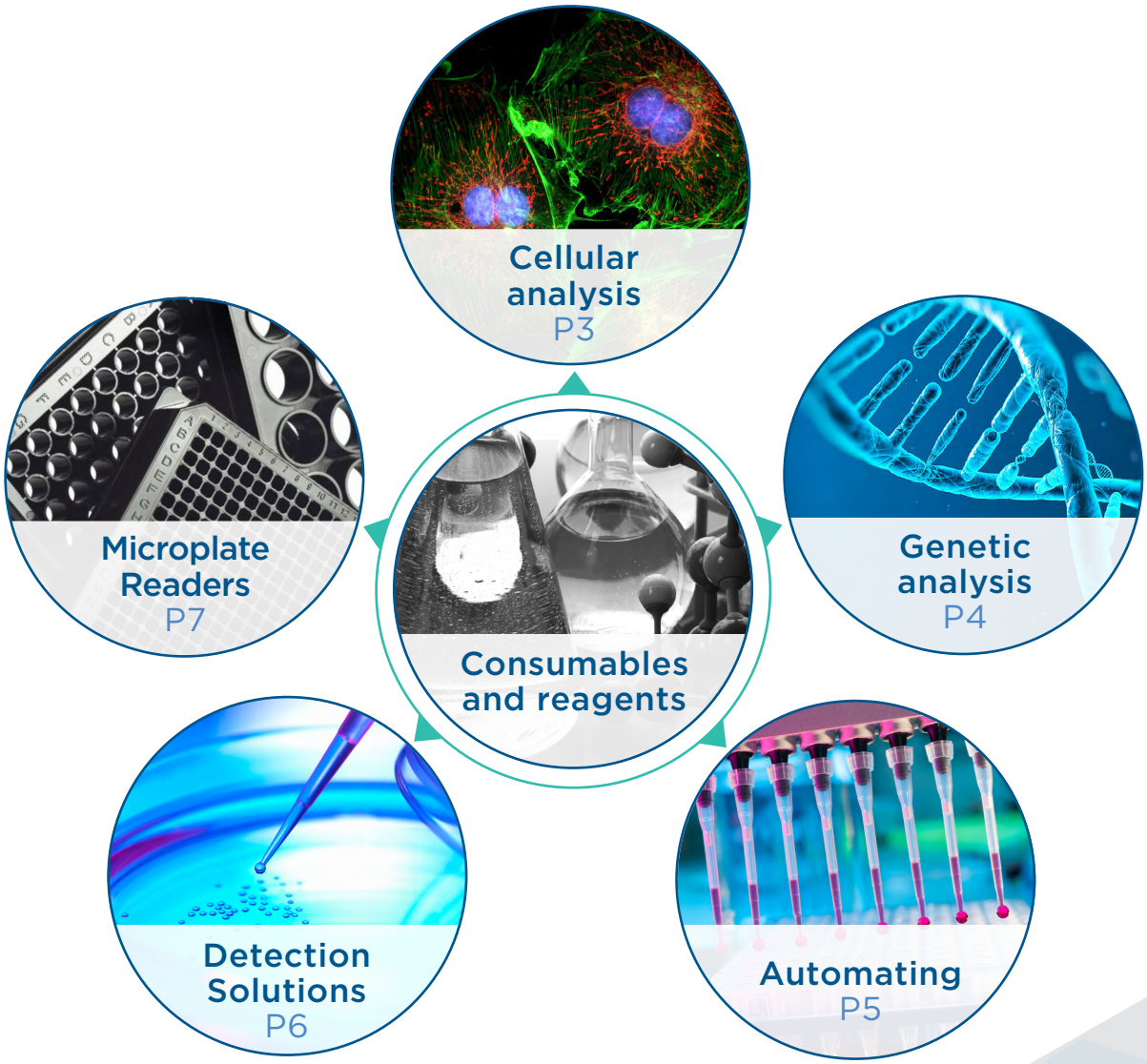
Hi-Tech Detection Systems

THE BEST OF TECHNOLOGY ...
... SERVING THE LIVING

The life sciences gather all studies undertaken on the structures, the functions, the anomalies, and the levels of organization (molecules, cells, organisms and their environment) of the living beings. HTDS offers a complete life sciences solutions for pharmaceutical and biotechnology laboratories, public and academic research and diagnostics.

With a unique expertise in the field of reagents, test platforms, cell imaging, gene analysis, detection and automation systems, the HTDS range of solutions is ideal for any fields in the living study.

Whether your goal is drug discovery, biological research, or preclinical evaluation, we will best meet all your needs.



All of our instrumentation and reagents have been selected from the world's leading product lines in their respective fields, ensuring you the best of current technology for your biological applications.

HTDS brings you all its expertise at each step of the implementation of your solution :
Advice, installation, validation of equipment, training and maintenance.

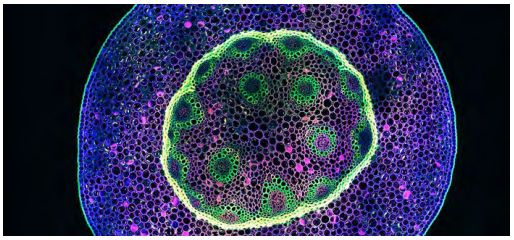
CELLULAR ANALYSIS

CELLULAR IMAGING SYSTEMS

To be up to date in the field of cellular imaging, it is essential to have 3D rotating images. You will need to film cellular events in real time using reliable, automated and flexible tools. HTDS offers a range of modular imaging systems.

High resolution cellular content analysis

Reference on the imaging platforms of the Pasteur Institute of Paris, confocal microscopy allows you to observe your living cells without damaging them.

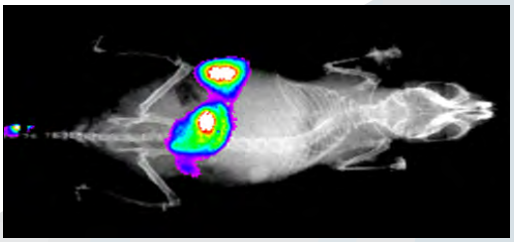


APPLICATIONS

- Primary and secondary screening
- Cellular, phenotypic and physiological analyzes
- Activation of receivers
- Protein expression
- Morphology
- Cell cycle, etc.

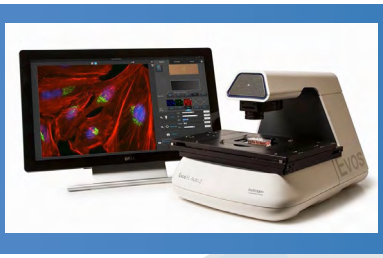
3D and 4D living cells and tissue imaging

The ViSen in vivo imaging solution makes it possible to discover more about your biological targets and your processes thanks to a 3D observation directly on the living animal.



APPLICATIONS

- Developmental biology
- Cancer biology
- Stem cell studies
- Neurobiology, etc

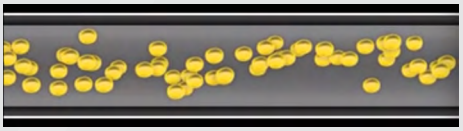


Inverted microscopy with white light and / or fluorescence and automatic cell counting.

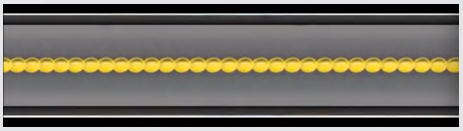
The inverted microscope range in white light or Fluorescence offers an excellent cell analysis tool to the laboratory. Countess II range offers scientists an automatic and simple way for the absolute count of cells in white light (with trypan blue) and with fluorescence.

FLOW CYTOMETRY

Cytometry makes it possible to scroll the particles of a sample: cells, molecules, bacterias,... at high speed in the beam of a laser, by characterizing them quantitatively and qualitatively.



Conventional system



ATTUNE system

Attune: Cytometry with Acoustic Centering

The new ThermoFisher Attune Cytometer uses ultrasonic waves to align and center the sample cells before they pass through the laser. This unique technology gives you a high level of sensitivity and a high degree of control over the analysis of your sample.

Focus on

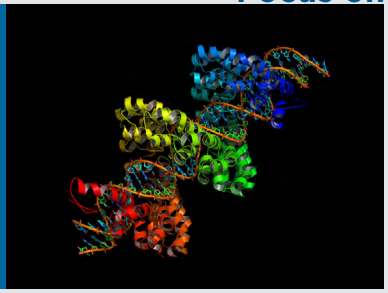
Our expertise in Proteomics

Zetameter

For the perfect knowledge of your proteins (weight, size, stability) for crystallography applications, enzyme-substrate assays, protein-protein interactions, etc.

LC / MS / MS Mass Spectrometer

To determine the exact amino acid sequence constituting the proteins.



GENETIC **ANALYSIS**

THERMAL CYCLERS

PCR - Polymerase Chain Reaction

The range of standard PCR devices offered by HTDS consists of 3 main models :

2720 and SimpliAmp models

Adapted for routine PCR, these models are the perfect compromise between high performance and affordable solution. Their compact design is modular with the possibility of having a gradient on the SimpliAmp model.

Veriti

The 6 independent mini-blocks, with programmable temperature, provide this model with exceptional flexibility. Its color touch-screen and USB port allow you to ideally control the steps of the thermal cycle of the PCR.

Proflex

It is an interchangeable block modulating thermal cycler with the advantages of the Veriti model over the gradient range. The 3X32 block is a real plus to the range that brings great flexibility to labs that need multiple users / protocols on the same thermal cycler.

APPLICATIONS

- Diagnostic
- Virology
- Immunology
- Bacteriology
- Protein constructs...

RT-PCR - Real-Time PCR

On a real-time PCR device, at each amplification cycle, the amount of total DNA or amplicon is measured using one or more fluorescent markers, which makes it possible to quantify the completeness of the kinetics.

Quantstudio & 7500 models

The 7500 and Quantstudio models are made of great quality and stand for powerful and scalable platforms (Quantstudio Series) for routine analysis.

StepOne and StepOnePlus

Easy to use with its touch screen and intuitive operation, it provides accurate and quantitative results for genomics research.

PCR digital (dPCR)

The purpose of this new technology is to solev the PCR limits in real-time, mostly for resolve the limitations of real-time PCR especially for somatic mutation and target quantification analyzes without the need for a standard range.

APPLICATIONS

- Genotype analysis
- Analysis of gene and protein expression
- Gene detection
- Genetic mutations
- Study of viral diseases ..

DNA SEQUENCERS

Capillary Technology

HTDS offers a complete range of DNA sequencers, working with 4 (Seqstudio) and 8 or 24 capillaries (3500 Series), scalable and tailored to your needs. Our sequencers are intended for a wide range of applications from sequencing to analyzing DNA fragments, such as microsatellites or SNPs.

Ion Torrent Technology

Thanks to Ion torrent technology The new Genestudio series (NGS) offers a very high speed of production of genetic information. Scientists would thus have effective and powerful tool to elucidate all genetic variations with a precise analysis. This puts into the hands of scientists a powerful tool that will make it possible to elucidate all genetic variations with a more precise and precise analysis.

APPLICATIONS

- DNA sequencing
- Micro DNA sequencing
- Verification introduction of genetic mutations
- Diagnosis of genetic diseases (cancers, etathalassemia, deafness)
- De novo DNA sequencing
- Human identification

AUTOMATING

Our entire range of instrumentation in genetic analysis can be fully automated thanks to robots capable of performing the intermediate steps between each device: pipetting, use of kits, moving objects ... This solution is an innovation that allows major advances in terms of productivity, capacity and dynamic volume range.

AUTOMATED WORK STATIONS

JANUS automated station

The Janus pipetting robot adapts entirely to your needs and at your own pace thanks to its different options. With a choice of different pipetting arms and different configurations, this station allows :

- Pipetting
- The change of the pipetting heads
- Total or partial plate operation
- Operation with plastic needles or cones
- The transport of any type of support (Gripper arm) on the work surface or even outside when integrating other modules

HTDS also offers JANUS workstations for specific applications, such as nucleic acid extraction and analysis, immunoanalyses, forensics, PCR and sequencing sample preparation, etc.

DNA / RNA extraction automaton

This robust, easy-to-use automat uses DNA extraction kits that adapt to the majority of biological samples: blood, cotton, bones, etc.

By eliminating the manual intervention of the experimenter at each step of extraction, this solution avoids any contamination of your samples and guarantees high yields.

APPLICATIONS

- Genetic and cellular analyzes
- Clinical applications
- Diagnosis, etc.

(Labchip) Microfluidic electrophoresis (Labchip)

Quality analyzes and quantification of nucleic acids (DNA and RNA) and proteins can be performed in a few seconds using automated separation by capillary electrophoresis. The microfluidic technology of the LabChip® GX system generates reproducible, high-resolution, and optimal data for quality control of NGS booksellers, RNA and DNA analyzes.

DETECTION **SOLUTIONS**

RADIOACTIVITY COUNTERS

HTDS offers several radioactivity counters for reading radioactive biomarkers in order to best adapt to your applications.

WIZARD Automatic Gamma Counter

Used in clinical and academic research laboratories around the world, this meter delivers outstanding performance for all types of samples in every counting applications.

APPLICATION

- Radio-immuno analyzes
- Chromium ^{51} Cr release tests
- Hematological studies
- Shilling tests
- Cellular marking, etc.

Tri-Carb liquid scintillation analyzer

Tri-Carb analyzers are the most versatile and sensitive instruments on the market for the detection of low alpha, beta and gamma radioactivity.

APPLICATION

- Detection of radon in the water
- Carbon Radiodatation
- Analysis of biochemical pathways
- Contamination control
- Release of the ^{51} Cr
- Radioimmunoassays, etc.

MicroBeta liquid scintillation and luminescence universal counter

The MicroBeta has a counting chamber with two photomultipliers in coincidence allowing for all applications the measurement of radioactivity and luminescence. This module of 1, 2, 6 or 12 detectors has 16 different plate positions available.

APPLICATION

- Detection of radon in the water
- Carbon Radiodatation
- Analysis of biochemical pathways
- Contamination control
- Release of the ^{51} Cr
- Radioimmunoassays, etc.

MICROPLATE **READERS**

Ensight

The all-new PerkinElmer Configurable Plate Reader features :

- Quadruple monochromator for fluorescence intensity analyzes and absorbance
- Alpha Technology
- Ultrasensitive luminescence analysis capabilities
- Temperature control functions, etc.

APPLICATION

- Fluorescence intensity and absorbance analyzes
- Kinase and cell signaling analyzes
- Analysis of enzymatic kinetics, etc.
- ELISA analyzes
- Cell proliferation assays

Victor Nivo

This microplate reader enables detection in multi-technologies. This latest generation of Victor Nivo has two types of configuration : 3 technologies (luminescence, fluorescence and absorbance) or 5 technologies, the TRF and Polarized Fluorescence to the three others mentioned above). This instrument can be used in filter configuration or to monochromator configuration.

APPLICATION

- Cellular and kinetic analyzes
- Immunoanalyses
- Expression de gènes rapporteurs
- Toxicological screening, etc.

CONSUMABLES & **REAGENTS**

For genetic analyzes

- Qubit
- RPMI
- MasterMix
- Purelink
- Agarose, etc

For detection solutions

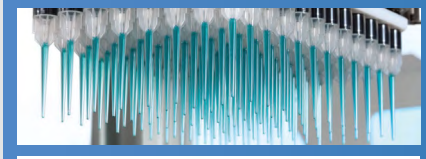
- Counting flasks
- Scintillation cocktails
- Tissue solubilizers
- Specialty chemicals
- Radiolabeled molecules
- Biomarkers
- Eppendorf tubes, cones, microplates, etc.

For microplate readers

Consumables : cones, microplates, tubes

Reagents : luminescence kits, Alphalisa immunoassay kits, biomarkers, etc.

Focus on



For a quick and accurate preparation of your analyzes

Single and multichannel pipettes, fixed or variable volume
Choose the Rainin solution: simple, fast, accurate and convenient

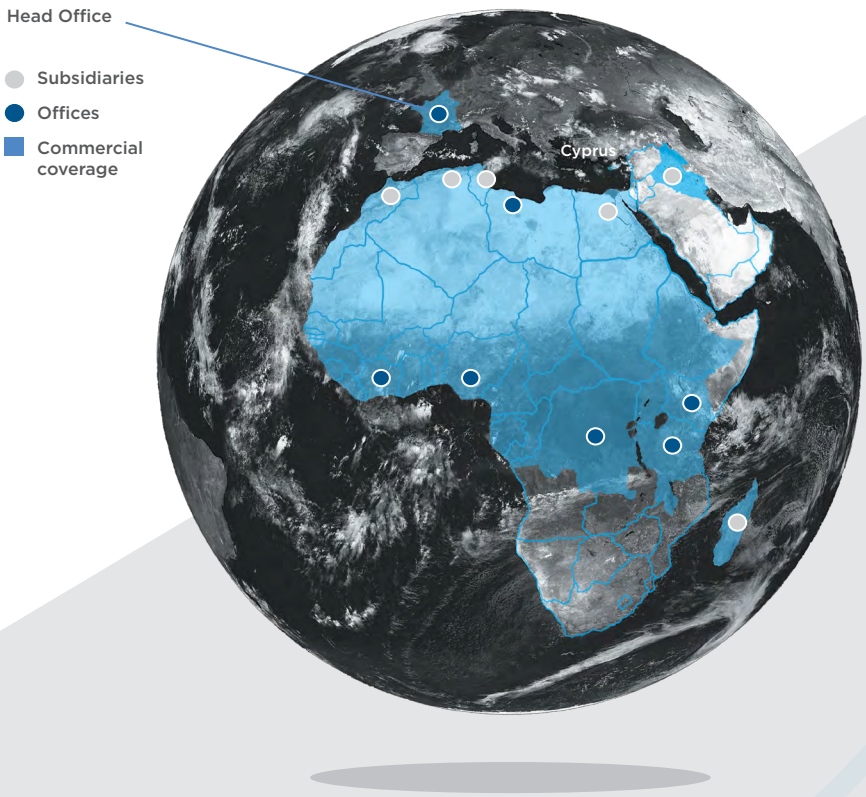
Liquidator96
Optimize the preparation of all your microplates with the Liquidator 96 pipetting system, a powerful, accurate and efficient research tool designed for high throughput pipetting: a 96-well microplate is ready in less than a minute.

Electrodes
Control the pH of your samples with our InLab solutions. Discover our micro-electrodes for precise and repeatable pH measurements in volumes of only 15µL!

OUR INTERNATIONAL NETWORK

HTDS (Hi-Tech Detection Systems) is a company specialized in the distribution and maintenance of high-tech detection systems in France and abroad.

HTDS offers a full range of detection solutions dedicated to the following areas:
Security - Product Control - Analytical Sciences -
Nuclear and Radiation Protection - Signal Processing - Optoelectronics
HTDS's exclusive partners for mining analysis are recognized as world leaders in their field.



For a responsive service, tailored to your needs, HTDS has a network of subsidiaries, each with a team of specialized technicians and a complete stock of spare parts. A dedicated stock of equipment for your occasional rental needs is also available.

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HTDS
Hi-Tech Detection Systems

afaq ISO 9001 Qualité AFNOR CERTIFICATION

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