

Mythic™ technology

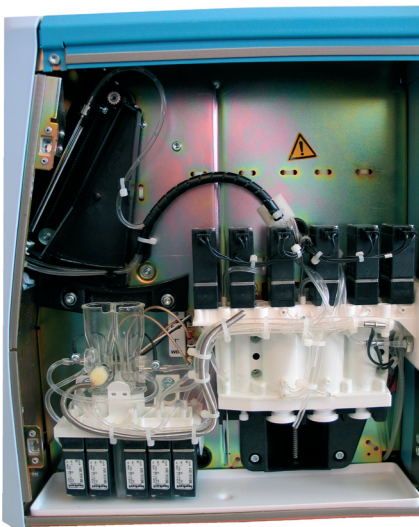
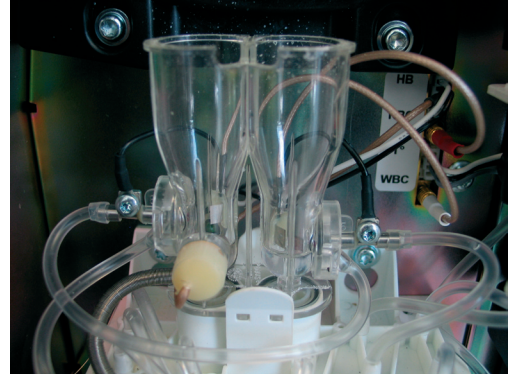
**Let's talk about
innovation**



Mythic™ 18, 3-part differentiation hematology analyser by impedance.

Theory is the same,

This technique is based on the modification of the impedance of a calibrated aperture soaking in an electrolyte and going through a constant course delivered by two electrodes located on both sides of the aperture. A vacuum applied on a side of the aperture allows the cells passage. They oppose their physical volume to the course passage. A voltage impulse is registered at the electrodes terminal. The height of this impulse is proportional to the cell volume. The impedance is used for the measurement of White Blood Cells, Red Blood Cells, Platelet.

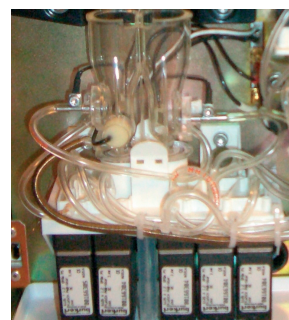


Application is different

- Application of a constant current on the 2 electrodes.
- New system of counting heads, which can be dismantled without any tools.
- All the fluidics of the instrument has been simplified, using manifold systems, to reduce the length of tubing inside the machine, reducing the risk of clogging.
- New patented sampling module.
- New patented syringe module.

New generation of instrument

- One main board without manual potentiometer.
- Blank of hemoglobin adjusted by the software.
- 24-V external power supply.
- Electrovalves without any maintenance.



Mythic™ 22, 5-part differentiation hematology analyser by optical method.

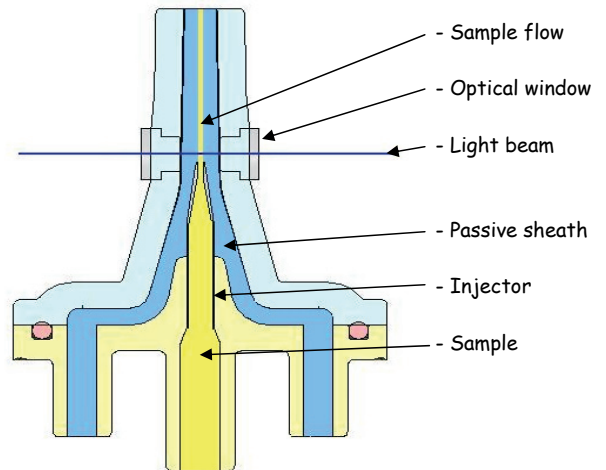
New patented technology

The innovative optical detection system is covered by four patents.

This technology (called **OCHF** for **O**ptical **C**ytometer **H**ydrofocus **F**ree) is based on an **unique** and **innovative** concept of an **active sample flow** and a **passive sheath**.

The sample flow is introduced in the flow cell under pressure and the sheath is only dedicated to maintain it.

This principle enables to introduce a large quantity of sample and to use a great dilution rate (which allows to do the Hemoglobin measurement with the same dilution).



OnlyOne, new lyse



The five part diff is obtained by the optical matrix analysis after action of the lytic reagent (patented), which:

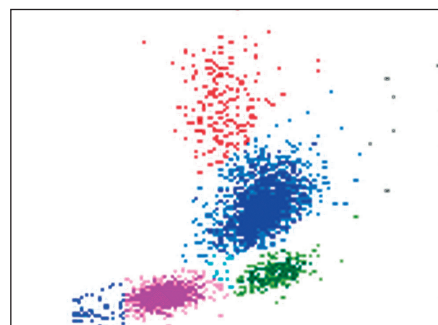
- destroys the RBC and their stromas,
- composes the oxy hemoglobin chromogen
- and protects the white blood cell membrane to keep it in closed native state.

One Scattergram, 5 populations

For each cell throwing the optical detection area, two pulses are generated:

- one for the Axis Loss Light (ALL) measurement
- one for the Forward Side Scatter (FSC) measurement.

The result of those two axes of measurement is the high definition matrix that enables to identify five WBC populations.



Technical Specifications

	Mythic™ 18	Mythic™ 22
Parameters	18 parameters + 3 histograms. WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, PLT, MPV, PCT, PDW. LYM % and #, MON % and #, GRA % and #.	22 parameters + 2 histograms + 1 scattergram. WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, PLT, MPV, PCT, PDW. LYM % and #, MON % and #, EOS % and #, NEU % and #, BAS % and #.
Identification	<ul style="list-style-type: none"> Alphanumeric ID Patient ID Sample ID Barcode reader (option) 	<ul style="list-style-type: none"> Alphanumeric ID Patient ID Sample ID Barcode reader (option)
Throughput	60 samples per hour.	50 samples per hour.
Sample volume	9.8 µl	16.7 µl
Output	<ul style="list-style-type: none"> Multitask RS232C Ethernet (TCP IP) USB key 	<ul style="list-style-type: none"> Multitask RS232C Ethernet (TCP IP) USB key
Reagents	3 (Diluent, lyse solution, enzymatic cleaner)	3 (Diluent M22, OnlyOne-lyse solution, enzymatic cleaner M22)
Multilanguage	French, English, Spanish, German, Italian, Portuguese, Chinese, Cyrillic (others available).	French, English, Spanish, German, Italian, Portuguese, Chinese, Cyrillic (others available).
Power (Voltage & Consumption)	<ul style="list-style-type: none"> 90 to 250 V. 50 to 60 Hz. less 50 VA. 	<ul style="list-style-type: none"> 90 to 250 V. 50 to 60 Hz. less 150 VA.
Dimensions (mm)(HxWxD)	350 x 250 x 340	350 x 250 x 340
Printers	<ul style="list-style-type: none"> Dot Matrix printer. Inkjet printer. Thermal printer. 	<ul style="list-style-type: none"> Dot Matrix printer. Inkjet printer. Thermal printer.
User's Interface	<ul style="list-style-type: none"> QVGA monochrome touch screen. Built-in numerical keyboard. 	<ul style="list-style-type: none"> TFT color touch screen. Built-in numerical keyboard.
Flagging	<ul style="list-style-type: none"> Pathological flags. Lab limits. Reagent alert. Instrument alert. 	<ul style="list-style-type: none"> Pathological flags. Lab limits. Reagent alert. Instrument alert.
Quality Control	6 control lots. 100 runs/lot. LJ graphs.	6 control lots. 100 runs/lot. LJ graphs.
Datalog	<ul style="list-style-type: none"> 1500 patients files in Mythic memory (including demographics and histograms). Extended capacity with external thumb drive. 	<ul style="list-style-type: none"> > 1000 patients files in Mythic memory (including demographics and histograms). Extended capacity with external thumb drive.
Logs	<ul style="list-style-type: none"> System status. Reagents monitoring. Calibration. Q.C. Service. 	<ul style="list-style-type: none"> System status. Reagents monitoring. Calibration. Q.C. Service.
Software Option	SVM software: Validation station for Mythic	SVM software: Validation station for Mythic

Calibrators and Quality Control materials

Please contact your local Orphée's representative for informations about calibrators and controls dedicated to each instrument.

COMING SOON

- M-Pak : Pack of reagents for Mythic™ 18
- Mythic™ 22 AL : Mythic™ 22 with autoloader.

