



# ABX Pentra XL<sub>80</sub>

Hematology analyzer

Auto-sampling  
5-part Differential  
Customized Dilution Ratio  
Integrated Validation Station

# Pentra XL<sub>80</sub>

A new way to manage your hematology workflow

With Pentra XL 80 discover a hematology system specially designed to be fully integrated into the laboratory workflow environment. Introducing Expert Reflex Testing, a unique feature through the integrated validation station utilizing ABX-patented technology.

- ▶ 80 samples per hour
- ▶ High speed Auto-sampling
- ▶ Stat sampling on open or closed tubes
- ▶ CBC and CBC+DIFF / 26 parameters
- ▶ **Micro-sampling**
- ▶ **Customized Dilution Ratio (CDR)**
- ▶ Internal and external barcode readers
- ▶ **Automatic sample Re-run**
- ▶ **Integrated Validation Station**
- ▶ Manual differential entry plus abnormal cells
- ▶ Uni-directional and Bi-directional connection
- ▶ LCD-color touch screen monitor
- ▶ Onboard Quality Control management
- ▶ Onboard system and patient logs
- ▶ Contextual help (onboard user manual)





## Unique features

### Integrated Validation Station

Automatic validation according to user setting  
Comprehensive Delta check flagging  
Possible to input manual differentials including abnormal cells

### Automatic Sample Re-run

A second analysis is performed immediately and automatically by the Pentra XL 80. This is dependent on the sample re-run criteria established by the user.

### ◀ CDR (Customized Dilution Ratio)

Samples that are beyond the linear range of the instrument are automatically detected, diluted and re-run for extended linearity results. 3 different dilution ratios are available (1/2, 1/3, 1/5)

### Micro Sampling

Only 30 $\mu$ L in CBC or 53 $\mu$ L in CBC+DIFF with ABX patented MDSS technology (Multi Distribution Sampling System).

*Example of linearity extension with CDR for WBC measurement.*





Patient data management adapted to your specific needs.

# Pentra XL<sub>80</sub>

## Improving efficiency

### Flexible network laboratory configuration

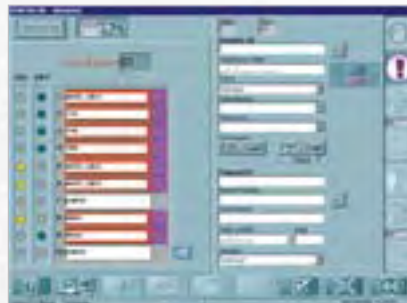
- System networking options of:
  - uni-directional
  - bi-directional
  - stand-alone
- Multiple barcode options

### Single screen viewing of comprehensive data to include

- Patient number, patient identification, age, etc.
- Patient profile: man, woman, child, etc.
- Patient information: department, physician, comments, etc.
- Analysis type: CBC, CBC+DIFF
- ABX CDR (Customized Dilution Ratio) selection

### Automated sample location screen

- Clear visual display of selected sample with details of rack number, tube position and sample type (CBC/DIFF)

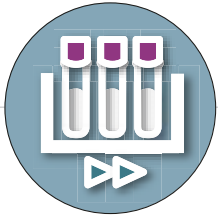


*Work List view*



*Patient profile set-up*





Optimized sample processing.

**Ideal for workloads up to 350 samples/day**

- 80 samples/hour
- 10 rack capacity (100 tubes total)

**Secured sample identification**

- Positive sample identification (external and internal barcode readers)

**Confirmed results upon demand**

- Automatic Re-run of abnormal samples
- Customized Dilution Ratio (CDR) virtually eliminates over-range results

**Manual mode accomodates various tube types**

- Sample tube holder fits 16 tube sizes
- Open or Closed tubes

**Minimal sample volume required for analysis**

- MDSS technology 30µL for CBC and 53µL for CBC+DIFF

**Simple QC sampling and identification**

- Quality Control blood (3 levels) is identified by the internal barcode reader

**Proven and Reliable Technology**

- DHSS (Double Hydro-dynamic Sequential System)
- MDSS (Multi Distribution Sampling System)
- Cytochemistry, cytometry, impedance measurement, and light absorbance



Fully integrated validation station.

**Ability to focus on specified results**

- Automatic "biotechnical" validation

**Exact follow-up on same patient identification**

- Delta check flagging
- refining auto-validation criteria

**Automatic calculation on manual data input**

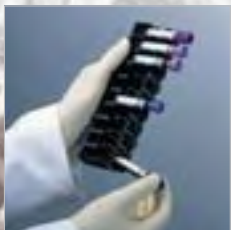
- Manual results entry with with automated correction of calculated parameters

**Accurate and specific patient reporting**

- Edit patient reports by selective mixing of patient run, Re-run, and manual entry for a customized final report

**User-friendly patient validation lists**

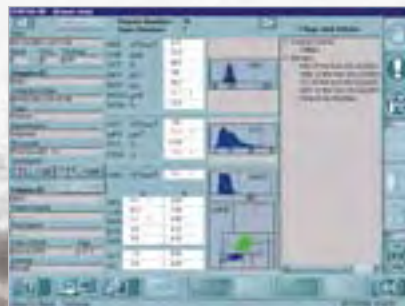
- Patient reports are classified by lists:
  - validated patient reports
  - unvalidated patient reports
  - waiting for examination



ABX Rack



Stat Bay



Patient Result



Patient Report



# Pentra XL<sub>80</sub> Onboard Traceability

Completely automated  
and easy access to all menus

**System memory stores up to 10,000 patient reports to include:**

- All patient demographics and results;
- All data graphs, pathological flagging, curves and thresholds;
- Sample Re-run, specified sample dilutions and comments

**Analyzer status at a glance**

- Virtual visualization of the analyzer status screen with reagent level and sample analysis in real time sequence

**Precise Quality Control results management**

- Quality assurance includes QC, results, XB flagging, repeatability, adjustable CV%, limit flagging and Levy Jennings graphs

**Compliant to Accreditation standards**

- All onboard logs access by date or by item

**Archival data management**

- Deleted archive files are stored for a month and then may be copied to floppy disc or exported to FTP server (File Transfer Protocol)



Logs Screen

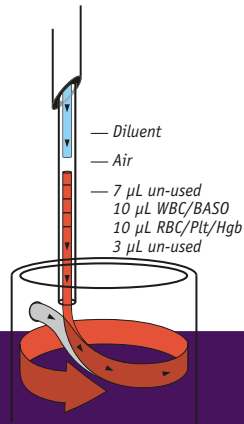


Status screen



QC

# Proven and Reliable Technology

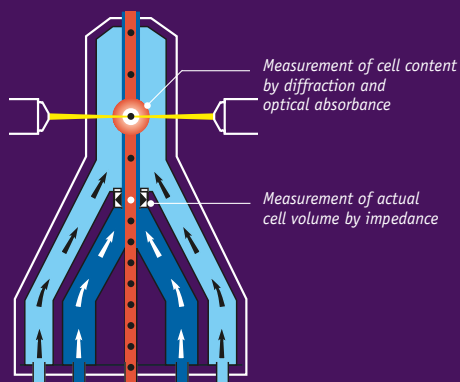


## MDSS\*/CDR microsampling

### Multi Distribution Sampling System\* and Customized Dilution Ratio

- ▶ Sampling: 30µL for CBC or 53µL for CBC+DIFF with end over end mixing in rack mode.
- ▶ Sample aliquot aspirated and transferred to pre-heated analysis chambers.
- ▶ Tangential flow of reagent for optimized mixing.
- ▶ Automatic modification of dilution ratio on over-range samples.

\*ABX patent



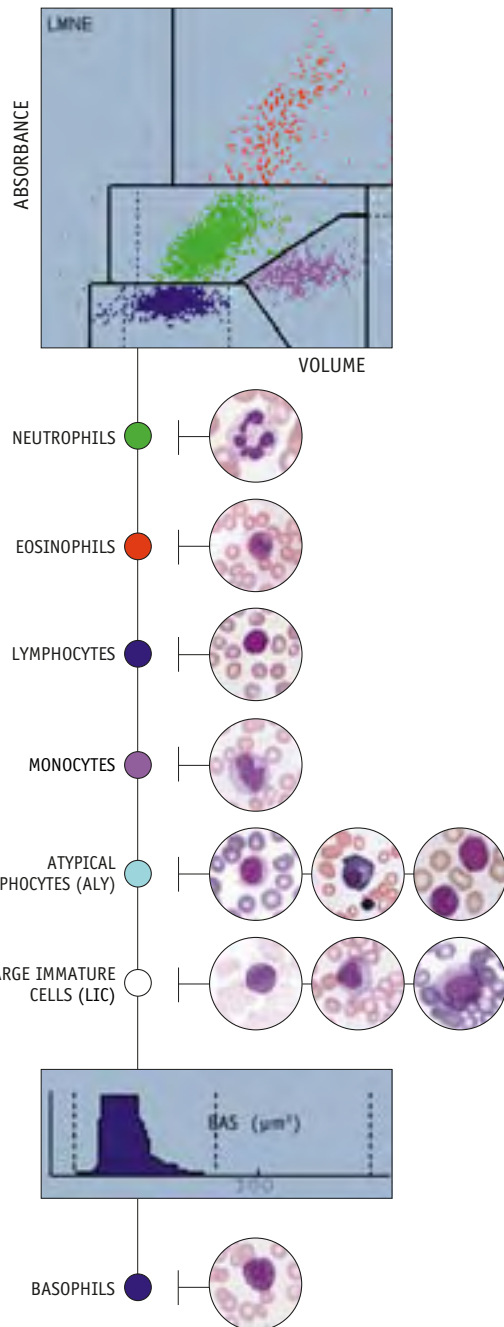
### Cytochemistry

Sample incubation in a temperature-controlled chamber and enzymatic staining with Chlorazol Black. This reagent specifically stains leucocyte nuclei, granules and membranes.

### Cytometry

Injection of the prepared sample into a double hydrofocusing cytometer (ABX patent) and analysis of cell complexity with a polychromatic light source.

## Results





Pentra XL 80

# Pentra XL<sub>80</sub>

Hematology analyzer

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Diagnostics

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HORIBA ABX - SPAIN (34 / 91 353 3010) - HORIBA ABX - PORTUGAL (351 / 2 14 72 17 70) - HORIBA ABX - U.K. (44 / 1462 8144 00) - HORIBA ABX - AUSTRIA (43 / 1 718 78 44 00)  
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