Pentra 400

From routine to specific testing

Now, pass your Analysis with flying Colours

- High-precision
- High quality analytical technology

Sample management
- Positive identification
- Multiple sample checks using shock, level and fibrin detection
- Continuous loading
- STAT capability
- Automatic Pre / Post-dilution
- Automatic Re-run

Reagent management
- Barcoded cassettes
- Optimised test packaging
- Reagent test count down with automatic back-up
- Refrigerated zone with up to 44 positions
- Extensive on-board test menu
- User defined channels

- Up to 420 tests per hour with the ISE module
- 55 on-board parameters with back-up availability
- Innovative cassette format
- Integrated work station and validation station
- Touch screen interface
- Real-time follow-up of your workflow
A concentration of technology for high quality results

HIGH-PRECISION OPTICAL SYSTEM
To meet the requirements for highly accurate photometric measurements, HORIBA Medical has chosen the holographic grating technology developed in collaboration with HORIBA Scientific (Jobin Yvon Technology).
- Spectral unit offering 15 different wavelengths (mono or bi-chromatic)
- Optimised reading by continuous sweep
- Highly sensitive measuring (validated holographic technology)
- Space-saving design with maximum efficacy provided by the tungsten lamp
The holographic grating technology reduces light diffraction and provides a high signal / noise ratio which significantly increases the quality of measurement to produce precise and stable test results.

INTEGRATED ISE MODULE
Optional ISE module designed by HORIBA Ltd., Japan.
- 180 tests/hour
- Simultaneous analysis of Sodium, Potassium and Chloride
- Applications on Serum, Plasma and Urine

High quality analytical technology
- Single-use reaction cuvette
  To perform the most sensitive tests and all latex assays with high stability results.
- High performance mixer design
  For optimal homogenisation in minimum time without cross-contamination.
- Optimum test sequence setting program with Incompatibility function

Optical system
- Integrated ISE module
- An extensive panel of liquid reagents

Secure data management
- Secured results validation
- Reliable traceability in compliance with Accreditation Standards

Patient management
- Work list generated by a manual entry or bi-directional connection
- Automatic validation based on user defined rules
- Intelligent delta checking
- Panic values monitoring
- Unlimited patients reports archiving
An extensive panel of liquid reagents

Cassette packaging
- Mono / Bi reagent cassettes
- Ready-to-use
- Extended range
  - > 52 reagents
  - > Enzymes / Substrates / Specific Proteins

Easy management of your lab processes
- Random position on board
- Automatic traceability : lot number, expiration date, …
- Automatic back-up
- Just one calibrator and two controls for global routine analysis

Environment protection
Compact cassette packaging that respects the environment
- No more superfluous packaging
- Saves refrigerator space

Cost control
- Optimised number of tests per cassette
- Limited calibrations
- Re-run analysis according to laboratory defined rules
- Activity measurement thanks to the test counter option\(^{(1)}\)

(1) Test counter
The Pentra C400 is an evolution of the successful system, the P400. This evolution ensures the user a platform that is reliable and extremely user friendly, whilst ensuring quality results that is the requirement in such an environment.

Save valuable time

**Automatic reagent management**
- Intelligent monitoring of reagent supply: the “workbalance” function assesses the stock on board relative to the workload requirements.
- Use limit date and Calibration validity checks

**Real-time workflow follow-up**
- Control all your operations from the main screen (system, reagent and sample status)
- Dynamic display of the test results and sampling exceptions with the test review function
- Multiple alarm sounds available

**Reduced maintenance procedures**
- Automatic daily procedures
- Maintenance alerts
- Easy uploading of target values for calibrators and controls

Secure data management

**Secured results validation**
- Westgard multirule Quality Control procedure with up to 3 controls
- Automatic calibration factor check
- Selective flagging

**Reliable traceability in compliance with Accreditation Standards**
- Operator login history / Reagents, Calibration and Maintenance logs
- Full patient results traceability: multi-format option for archives review, end of day patient reports
- Full QC program: Up to 12-month control history, Levey-Jennings and Statistics
- Easy export of archived data (USB key)
Pentra 400
Clinical Chemistry system by HORIBA Medical