V8 UltraCE features and benefits

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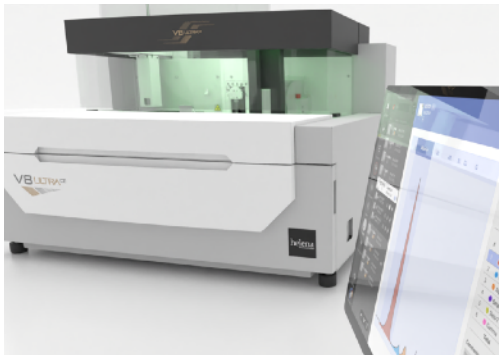
Introduction

V8 UltraCE represents the next generation of clinical electrophoresis. It is the product of an intensive, ground-up development process: an entirely new system which redefines the standards of precision, quality and reliability which our customers expect.

With a new portfolio of buffer chemistries, we have rebuilt from the ground up its optical and analytical capabilities, engineering a class-leading separation platform. Its peerless user-friendliness is more than matched by superior resolution, sensitivity and reproducibility.

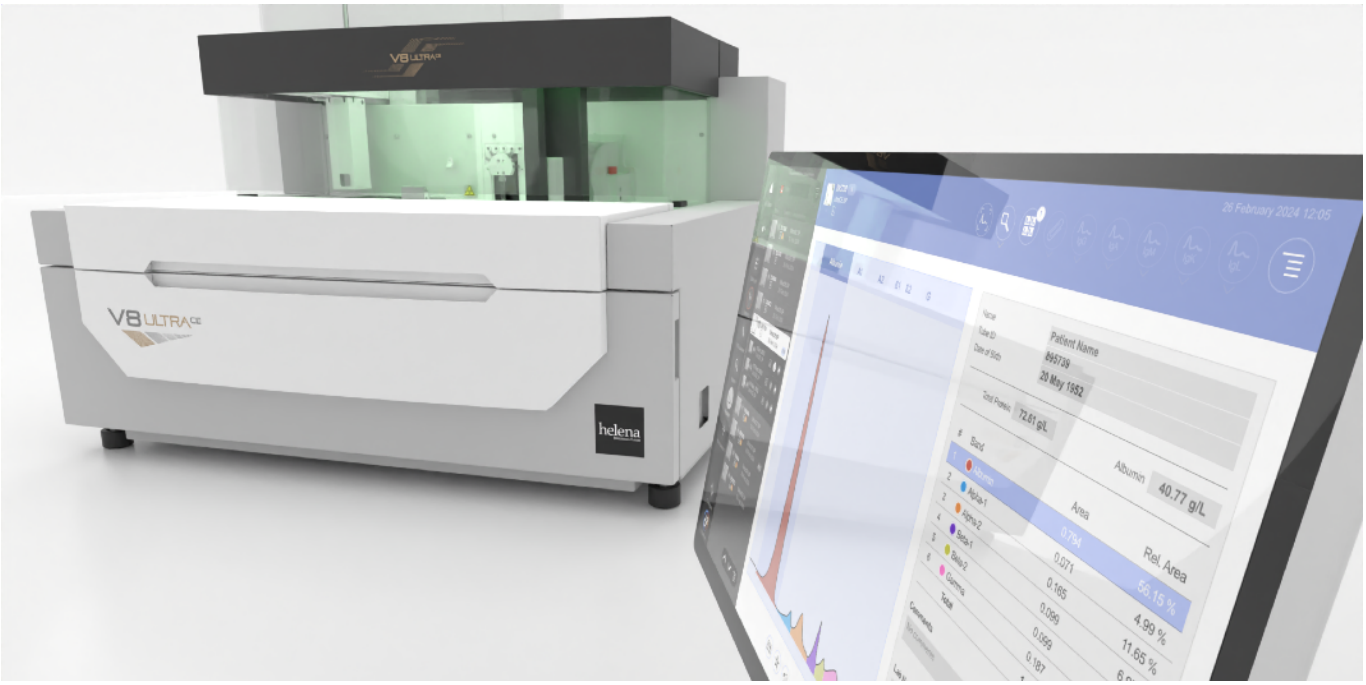
Reliability has been a key focus, and every aspect of the V8 platform has been reviewed — with significant upgrades to fluidics, mechanical and electronic systems throughout. Automated maintenance processes now take advantage of the superior capillary performance to ensure uptime and operational efficiency are maximised.







Key features



UltraCE capillary technology

- Advanced capillary zone electrophoresis (CZE)
- Re-engineered optical and detection systems utilising shorter, narrower capillary design
- Direct cooling technology ensures superior reproducibility
- High speed precision optical separation for all assays
- Optically calibrated capillary system to guarantee result consistency

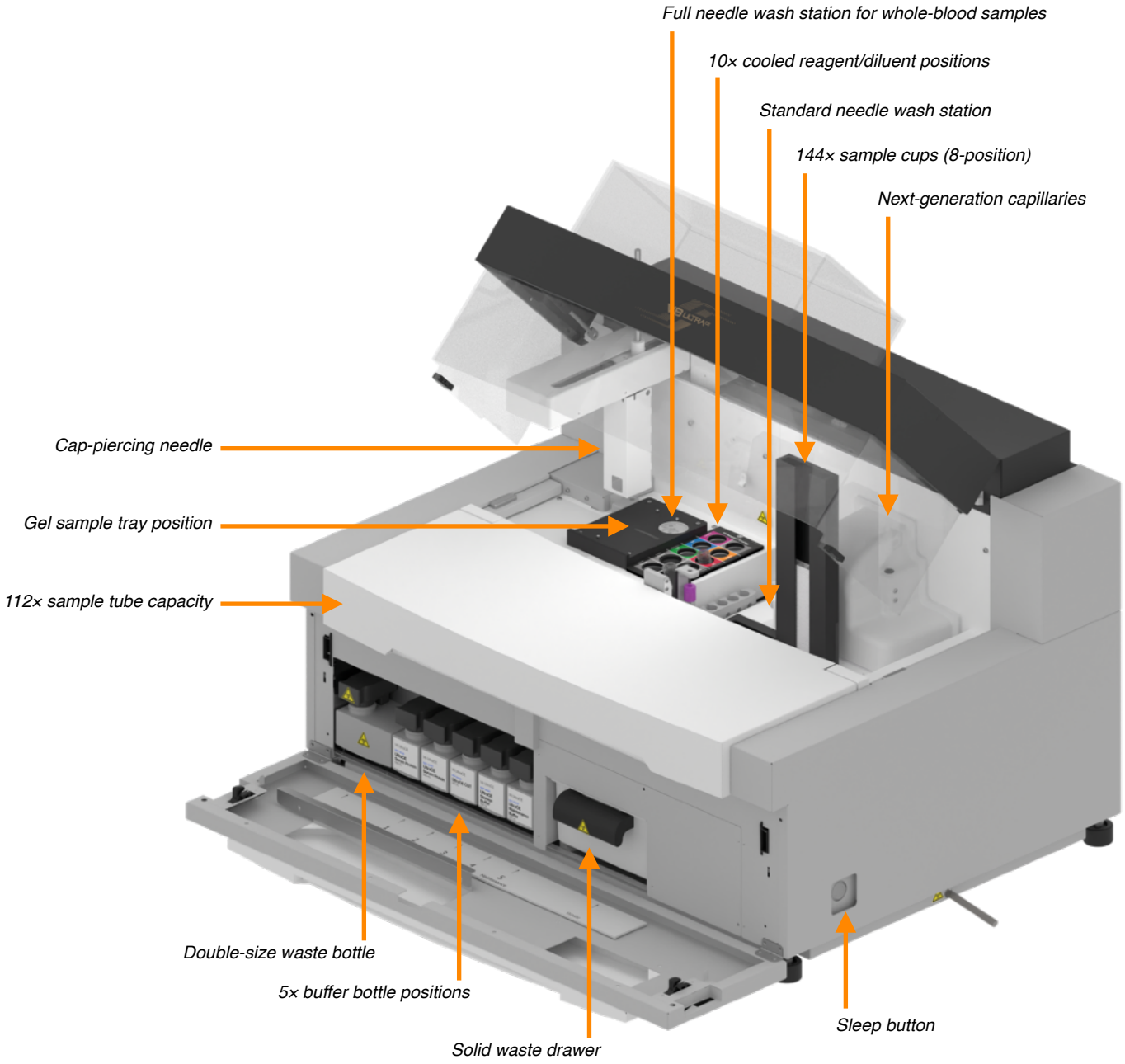
UltraCE kits

- New buffer chemistries deliver superior clinical resolution and assay performance
- Radically improved throughput as a result of the new optical design, chemistry innovations and advancements in analyser firmware
- Available at launch:
  - Serum Protein, Urine Protein, Immunodisplacement
- Available during 2026:
  - CDT, Haemoglobin screening

Platinum software

- Intuitive touchscreen workflow with unmatched clarity and networked reporting
- Drives and monitors V8 UltraCE operation
- Gel preparation and scanning workflow, integrated with capillary data
- Result management (interpretation, editing, commenting and reporting)
- Intelligent workflow features:
  - Automatic and instant historical data retrieval
  - Powerful QC suite with customisable Westgard rules and rapid entry of QC values
  - Expert System provides automated flagging of suspect results and automatic reflex testing based on laboratory defined clinical values
  - Middleware and LIMS Gateway features to streamline connection of multiple analysers to the laboratory system

Overview of system







Hardware specifications

Sample handling

V8 UltraCE provides the most versatile, user-friendly capabilities, with a fully integrated workflow for capillary and gel testing that allows customers to focus on analysis, interpretation and reporting.

Primary sample handling	
Sample capacity	• Continuous random access sample loading of up to 112 samples: • 14× racks each with 8× positions • Capped or uncapped primary tubes NEW • Open access sample area to allow prioritisation of urgent samples • Sample dead volume of 100 µL — sample tube dependent

Primary sample formats	• BD Vacutainer, Greiner Vacuette:
	  • 13 mm × 75 mm
	  • 13 mm × 100 mm
	  • 16 mm × 100 mm
	• Capped and uncapped as applicable
	• Hitachi cups/ACL cups (“hanging cups”)

Identification	• Positive patient identification with integrated barcode reader
	• Barcode formats:
	  • Code 39
	  • Codabar
	  • Code 128
	  • Code 93
	  • UPC/EAN
	  • Interleaved 2-5
	• Automated buffer switching

Sample management	• Automated recall of onboard tubes for reflex testing:
	  • Capillary serum protein, urine protein and Immunodisplacement
	  • Gel screening and immunofixation on SAS Vitrési (see below)

Sample preparation	• 144× onboard sample cups (8× sample wells per cup) • Continuous loading for sample cups • Sample agitation (via aspiration) for whole-blood samples NEW • Automated and custom sample dilutions for capillary and gel tests
Sample needle	• Redesigned cap-piercing needle NEW • Needle stall detection during cap piercing NEW • Full-height needle wash for capped samples NEW • Standard needle wash for uncapped samples

External connectivity	• Built-in (software enabled) connectivity to laboratory track systems:
	  • Inpeco FlexLab
	  • Abbott Accelerator
	  • Siemens Aptio

Gel tray preparation	

Gel sample tray preparation	• Automated preparation of gel sample trays for gel electrophoresis:
	  • Serum Protein electrophoresis (up to 100 samples)
	  • Urine Protein electrophoresis (up to 100 samples)
	  • Immunofixation (up to 15 samples — serum and/or urine)
	• Full audit trail and sample traceability — ISO 15189 ready

Dilution	• New 3-lane pipetting layouts for Bence-Jones minifix NEW • Customisable immunofixation dilution factors • Improved standard dilution system optimised against prozoning effects experienced with immunofixation methods, reducing the need for per-patient dilution calculations

Compatible gel trays	• SAS Vitrési:
	  • 24 Sample Tray
	  • 60 Sample Tray
	• SPIFE:
	  • 60 Sample Tray
	  • 80 Sample Tray
	  • 100 Sample Tray
	• Positioning pins to ensure accurate placement

External sample handling	
External sample interface	• Built-in connectivity to laboratory tracks or external sample handlers
Compatible systems	• Inpeco FlexLab • Abbott Accelerator • Siemens Aptio
Supported features	• Full integration with the Inpeco central control software: • Centralised method selection • Automated sample queue management • Centralised laboratory monitoring of all analysers • Intelligent sample batching for optimal buffer and reagent usage • Automatic sample tube receipt, preparation and instrument loading • Automatically detection, labelling and quantitation of results' bands • Automatic reporting to FlexLab for onward reporting to LIMS
External sample handlers	• MAX UltraCE Coming soon

Buffers and reagents

Every aspect of buffer and reagent management has been reviewed from reliability, efficiency and usability perspectives. V8 UltraCE brings together all of the best features of previous V8 platforms and improves on them in numerous ways.

Buffer management	

Format	• 5 onboard buffer positions (500 mL):
	  • 3× assay run buffers
	  • 2× rinse/utility buffers
	• 1× double-size (1000 mL) waste buffer location NEW

Identification	• 2D barcode (buffer type, lot, expiry) bottles with expiry warnings NEW

Multiple method support	• Multi-method or dedicated operation:
	  • Run up to 3× mixed or homogenous buffer types to reduce operator manual intervention and allow continuous operation
	  • Automated buffer switching
	  • Results from all ordered method types supported within a single Platinum session
	• Smart purging (only buffers in use are purged)
	• Automatic or manual programme selection

Buffer integrity	• Buffer protection system maintains buffer pH within acceptable margin for minimum 20 days onboard stability NEW • Bar-coded buffer management for full audit traceability • Lot and expiry management provides warnings and audit trail against use of expired buffers • Buffer verification prevents validation of patient results associated with expired buffers
Monitoring	• Advanced direct buffer level monitoring NEW • Improved on-screen dashboard for live buffer status monitoring NEW • LED “in-use” warning indicator on waste bottle cap NEW
Reagent management	

Format	• 10 onboard reagent locations:
	  • 4× diluent reagent positions, enough for up to 800 tests
	  • 6× open positions for antisera and reagents (Anti-IgG, -IgA, -IgM, Kappa, Lambda, haemoglobin and CDT)

Identification	• 2D barcode (reagent type, lot, expiry) vials with expiry warnings NEW
Temperature control	• Peltier temperature controlled reagent bay for controlled stability and reduction in reagent loss
Reagent integrity	• Lot and expiry management provides warnings and audit trail against use of expired reagents or antisera
Monitoring	• Accurate reagent level monitoring by test counting • Improved on-screen dashboard for live reagent status monitoring NEW

Analysis

V8 UltraCE's separation system has been rebuilt from the ground up to provide cutting-edge analytical capabilities, delivering new features and supporting an intuitive, flexible and powerful workflow. Its new optical, detection and cooling systems work hand-in-hand with new buffer chemistries to deliver a radical improvement in clinical interpretation.

Analytical technologies	
Capillary design	• 8× simultaneous UltraCE capillary measurement channels NEW • UltraCE technology provides high throughput for all methods NEW • Shorter, narrower custom capillaries for maximum resolution and superior performance NEW • Nanocell precision light path delivers enhanced signal strength, separation and sensitivity NEW • Significantly reduced noise for superior resolution NEW • Extended lifespan, precision-mounted capillary units NEW • Individually packaged "click-in" design for rapid maintenance NEW
Throughput	• 80 Serum Protein tests per hour NEW • 16 Immunodisplacements per hour NEW

Light sources	• Enhanced FlexWave technology provides tailored, flexible light sources for high performance, optimised analysis:
	  • Robust deuterium source for serum protein and CDT methods
	  • Variable wavelength control for novel and enhanced methods, including reflex testing for interfering factors, and screening for contrast media
	  • Wavelength 200–600 nm
	  • Precision fixed LED source (405 nm) for haemoglobin methods NEW
	• Rapid optical light intensity stabilisation NEW

Ancillary capillary systems	
Detection	• 8× next-generation fibre optics and photodiodes NEW • Precision detection assembly minimises stray light and noise NEW
Temperature control	• Advanced direct capillary cooling for significantly improved reproducibility across capillaries and between runs NEW
Maintenance	• Automatic capillary conditioning and recovery technology to resolve blockages following downtime or maintenance NEW

Connectivity

V8 UltraCE is the heart of an ecosystem of connected systems: external sample handlers, laboratory sample track integration and networked data management solutions supporting workflows that span multiple physical locations.

Laboratory track connections	
Standards	• Inpeco FlexLab • Abbott Accelerator • Siemens Aptio

Connection type	• Fully automated sample loading and analysis
	• Full integration with NEMO central control software:
	  • Centralised method selection
	  • Automated sample queue management
	  • Centralised laboratory monitoring of all analysers

Sample types	• Serum proteins • Haemoglobins
MAX UltraCE external sample handling system Coming soon	
Features	• Connects through the V8 UltraCE track integration port • Throughput of up to 552 serum protein tests in 6.9 hours • Onboard walkaway capacity for 5.5 hours • Ideal for high-throughput laboratories
Data connectivity	
Database	• MS SQL high performance database as standard, local or networked • Unlimited data storage (millions of results)

Interpretation and reporting	• Remote networked reporting:
	  • Sign in to view, comment and approve results
	  • Automatic access controls to prevent overwriting

Diagnostics and maintenance

Electronics, fluidics and firmware systems have been significantly improved with the aim of protecting user samples, reducing unnecessary service callouts and minimising the number of blue light errors.

Instrument status and monitoring	

Instrument status	• Real-time graphical instrument status display
	• Real-time buffer and reagent status displays, showing:
	  • Remaining liquid level / test count
	  • Presence and assignment of bottle position, or empty
	  • Bottle empty or near-empty alerts
	  • Expiry warnings

Activity logging	• Continuous graphing of instrument vital signs: NEW
	  • Reagent temperature (°C)
	  • Capillary temperature (°C)
	  • Capillary voltage (V)
	  • Capillary current (µA)
	  • Capillary pressure (mbar)
	• Extensive log capture:
	  • V8-to-PC communications
	  • V8 error log
	  • LIMS communications
	  • Messages
	  • User activity log

Automated maintenance	• Scheduled startup and shutdown • Automatic preconditioning and postconditioning processes • Automatic purging and intelligent conditioning between assays • Shipping mode protects capillaries and mechanics during transport
Calibration and maintenance	
Optical calibration	• Capillary Calibrator kit ensures consistent optical performance across capillaries and multiple instruments Coming soon • Run once following maintenance NEW
Service and maintenance	• Improved Service Page simplifies common service tasks NEW • Capillary alignment tool saves time and avoids damage NEW
Diagnostic tools	
V8 instrument commands	• Capillary channel enable/disable • Force/avoid precondition • Force/avoid fluidics purge
Intelligent diagnostics	
Smart sample protection	• V8 UltraCE will notify the user if a sample is not detected during a particular run NEW

Electrical, safety and regulatory

V8 UltraCE is built using the latest technologies and components, resulting in significantly reduced power requirements for all processes and ensuring rigorous compliance with modern regulations.

Connections

Connections	
Ethernet	• 1× Ethernet connector on V8: V8 UltraCE ⇢ Windows PC • 2× Ethernet connector on PC: Windows PC ⇢ V8 UltraCE Windows PC ⇢ Laboratory network / LIMS
USB	• USB connection for barcode scanner
RS232	• Optional serial connection to LIMS / laboratory track software
Power	• Standard kettle connection
Electrical characteristics	
Requirements	• V8 UltraCE requires access to at least 3 power outlets • Mains voltage: 230V ±10% • Input frequency: 47 Hz – 63 Hz • Line protection (fuse): T3.15A

Physical specifications

Dimensions	
Size (instrument)	• 894 mm (width) × 680 mm (depth) × 703 mm (height) • Height clearance of 850mm • 1900mm width needed for V8, PC and scanner
Weights	• Instrument: 72 kg • Accessories box: 23 kg
In shipment	• Including pallet, PC and accessories • 1200 mm × 800 mm × 1380 mm • Weight 114.6 kg
Environmental operating conditions	• Ambient temperature 15–30°C • Non-condensing relative humidity between 35% and 80% • Maximum altitude of 2000 metres • Drainage and Water: No external reqirements for drainage and water • Waste is all held onboard • Measured at operator normal position (front side of device): 58dB

Methods and analysis

V8 UltraCE provides radical improvements to Helena's unified clinical electrophoresis workflow, delivering superb clinical performance, intelligent automation and class-leading usability advantages when compared with competing systems.

The following performance characteristics are taken from a blind study conducted at a UK NHS Trust in Summer 2024. Further details available on request.

UltraCE Serum Protein NEW

A brand-new formulation optimised for UltraCE hardware. As a screening test, high diagnostic sensitivity is favoured over diagnostic specificity.

Monoclonal screening	
Maximum throughput	• ≥ 80 tests per hour
Monoclonal quantification	• Between 0.25 g/L and 47.4 g/L
Diagnostic sensitivity	• 1.00 • No false negatives in a general population sample size of 739, containing 216 abnormal samples
Diagnostic specificity	• 0.91
Positive predictive value	• 0.80
Negative predictive value	• 1.00
Study details	• Study carried out Summer 2024, United Kingdom NHS

Kit details	
Catalogue number	• V8100
Contents	• 1× 500 mL Serum Protein Buffer • 3× 20 mL Serum Protein Diluent • 1× buffer filter • 3× packs of sample cups (36×8 positions per pack)
Tests per kit	• 600 maximum NEW
Format	• Liquid
Storage and stability	• Stable for 20 days at 15–30°C if stored on board the instrument • Stable for 28 days if recapped and stored offboard at 15–30°C

UltraCE Immunodisplacement NEW

Monoclonal immunotyping	
Maximum throughput	• ≥ 16 tests per hour (five tests per sample, using Serum Protein buffer)
Monoclonal quantification	• Between 0.25 g/L and 47.4 g/L
Diagnostic sensitivity	• 0.94
Diagnostic specificity	• 1.00
Positive predictive value	• 1.00
Negative predictive value	• 0.84
Study details	• Study carried out Summer 2024, United Kingdom NHS

Kit details	
Catalogue number	• V8140
Contents	• 1× 1.3 mL UltraCE ANTI-IgG • 1× 1.3 mL UltraCE ANTI-IgA • 1× 1.3 mL UltraCE ANTI-IgM • 1× 1.3 mL UltraCE ANTI-IgKAPPA • 1× 1.3 mL UltraCE ANTI-IgLAMBDA
Tests per kit	• 60 maximum NEW
Format	• Liquid
Storage and stability	• Stable at 2–8°C until the expiry date indicated on the label • Stable for 23 days when open and stored onboard the instrument for 7–8 hours per day • Ensure antisera vials are re-capped when not in use to minimise evaporative losses

Serum Protein Normal Control NEW

Kit details	
Catalogue number	• V110
Contents	• 5× 1 mL SERUM PROTEIN NORMAL CONTROL
Format	• Lyophilised

Storage and stability	• Lyophilised:
	  • Store at 2–8°C
	  • Stable until expiration stated on vial when stored at 2–8°C
	• Reconstituted:
	  • Stable for 14 days when stored at 2–8°C
	  • Stable for 24 weeks if aliquoted into required volumes, frozen and stored at -20°C
	  • Frozen aliquots can be frozen and thawed 13 times

Serum Protein Abnormal Control NEW

Kit details	
Catalogue number	• V120
Contents	• 5× 1 mL SERUM PROTEIN ABNORMAL CONTROL
Format	• Lyophilised

Storage and stability	• Lyophilised:
	  • Store at 2–8°C
	  • Stable until expiration stated on vial when stored at 2–8°C
	• Reconstituted:
	  • Stable for 14 days when stored at 2–8°C
	  • Stable for 20 weeks if aliquoted into required volumes, frozen and stored at -20°C
	  • Frozen aliquots can be frozen and thawed 10 times

Immunotyping Control NEW

Kit details	
Catalogue number	• V150
Contents	• 1× 1 mL IMMUNOTYPING CONTROL
Format	• Lyophilised

Storage and stability	• Lyophilised:
	  • Store at 2–8°C
	  • Stable until expiration stated on vial when stored at 2–8°C
	  • Can be kept without refrigeration (15–30°C) for 15 days
	• Reconstituted (V8 UltraCE):
	  • Stable for 14 days when stored at 2–8°C
	  • Stable for 48 hours when stored at 15–30°C
	  • Stable for 6 months if aliquoted into required volumes, frozen and stored at -20°C
	  • Frozen aliquots can be frozen and thawed 20 times
	Refer to IFU for detailed guidance

Software and data management

Platinum provides a unified workflow for capillary and gel electrophoresis, simplifying operation for all customers. It is fully networked, allowing interpretation and reporting from multiple locations.

General features

User interface	
Display configuration	• Touchscreen user interface with support for mouse and keyboard • Support for any display size (recommended minimum 1920×1080) • High-quality, anti-aliased trace display with pinch-to-zoom • Improved smart Grid and Focus Modes for reviewing data NEW

Results workflow	• Displays radically improved resolution and sensitivity NEW
	• Superior resolution of small monoclonals without need for editing NEW
	• Accurate result trace, without software manipulation or algorithmic distortion of peaks
	• Redesigned user interface for Platinum 6.2 NEW
	  • New screen layout provides a clearer, sharper view of the trace
	  • Band labels shortened to aid clarity
	  • New Inspector design provides at-a-glance view on all patient data
	  • Superb immunotyping workflow with improved Grid Mode NEW
	  • Gel results view rationalised and easier to use
	• Display of dates rationalised to improve clarity NEW

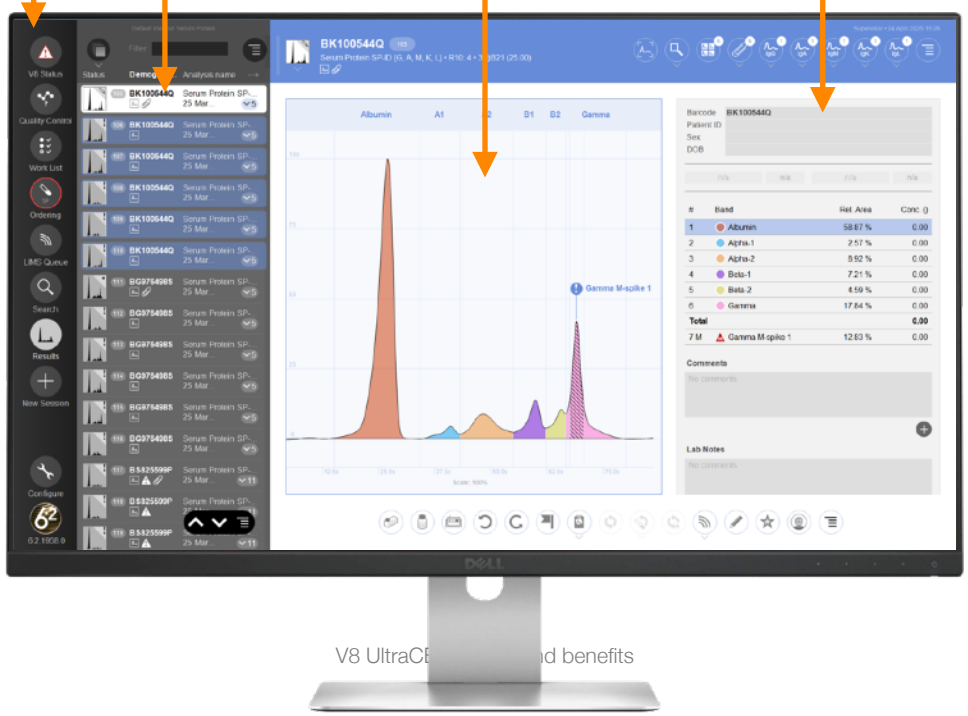
Clinical result display	• Streamlined result display alongside key data and tools: NEW
	  • Customisable result trace with interactive band display
	  • Inspector with band quantitation data, patient demographics, trace alerts, external chemistry data and interpretation comments
	  • Navigation list with current and historical results
	  • Detailed analytical and operational logs
	  • View customisation and result editing/action tools
	• Automatic linking of capillary and IFE results

Page Bar provides quick access to key functions, and key status indicators

Navigation List is a filterable view of the current session, including historical data

Result data area provides a rich, zoomable view of the trace, together with key tools

Inspector displays key patient details, external chemistry data, clinical result attributes, and commenting tools



Clinical results

Clinical result management	
Historical result data	• Improved instant historical data retrieval NEW • Compare historical patient results to track monoclonal size • Instantly view and copy comments from historical results NEW • One-click source data loading NEW • Lab notes feature allows internal (non published) commenting NEW • Flag results for follow-up NEW

View options	• Compare multiple results either side-by-side or in overlay
	• Customisable and configurable trace view, including:
	  • Improved fraction and monoclonal labelling NEW
	  • Colour-coded peak outline or filled colouring
	  • Axis adjustment and automatic scale matching for multiple traces
	  • Overlay normal and comparative trace(s)
	  • Derivative overlay view for small monoclonal proteins

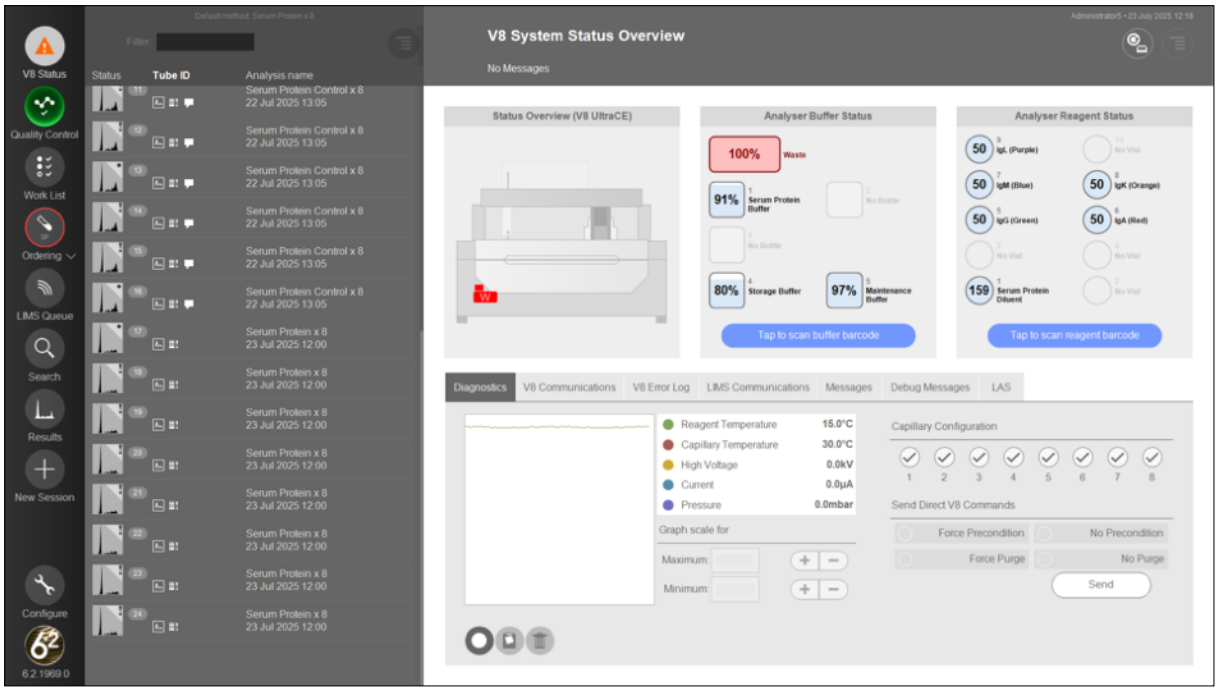
Editing tools	• Full suite of touch-optimised editing tools, including:
	  • Gating of peaks
	  • Insertion of peaks
	  • Quantification monoclonal bands
	  • Baseline editing

Expert System	

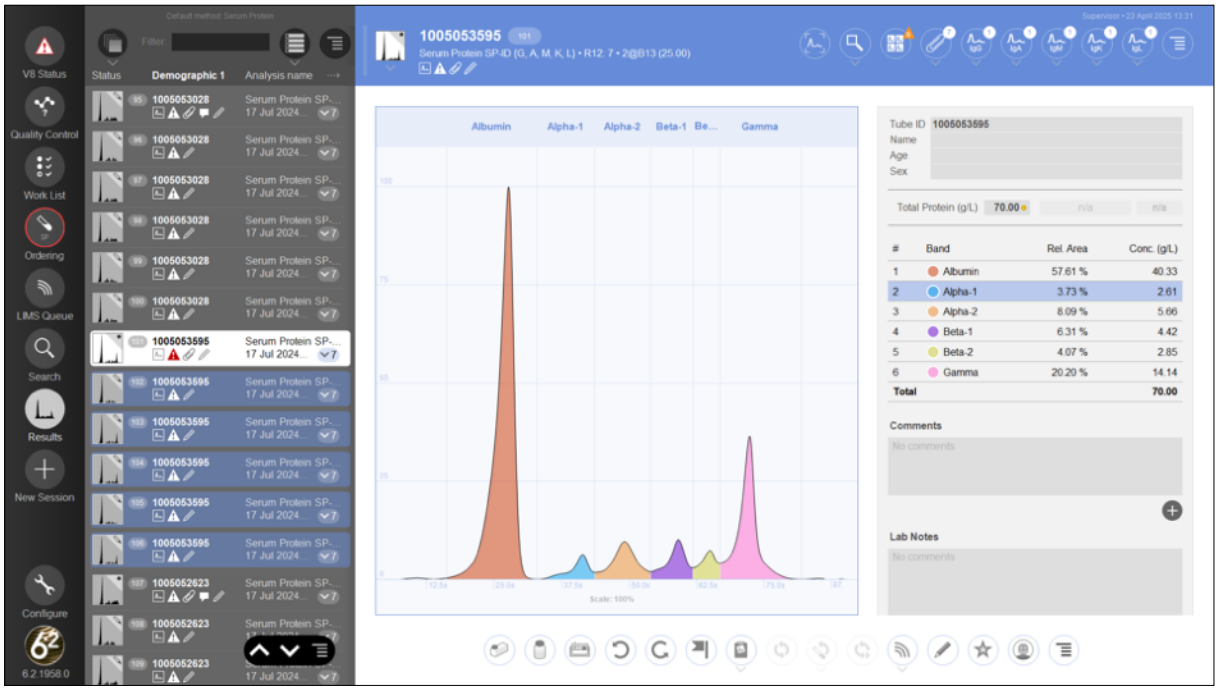
Key features	• Streamlines large sample workloads by applying configurable rules which automate interpretation
	• Automated flagging of suspect results:
	  • Marks sample as Suspect
	  • Displays flag against sample
	  • Records the details of the decision in a central log
	• Can optionally automatically trigger reflex tests, either to Immunodisplacement or gel immunofixation

Configuration	• Customisable, lab-specific per-method settings • Configurable parameters for peak dimensions, relative areas and total protein allow each band to be assessed and marked as normal or abnormal • External chemistry data can also be used, enabling richer comparisons to be made

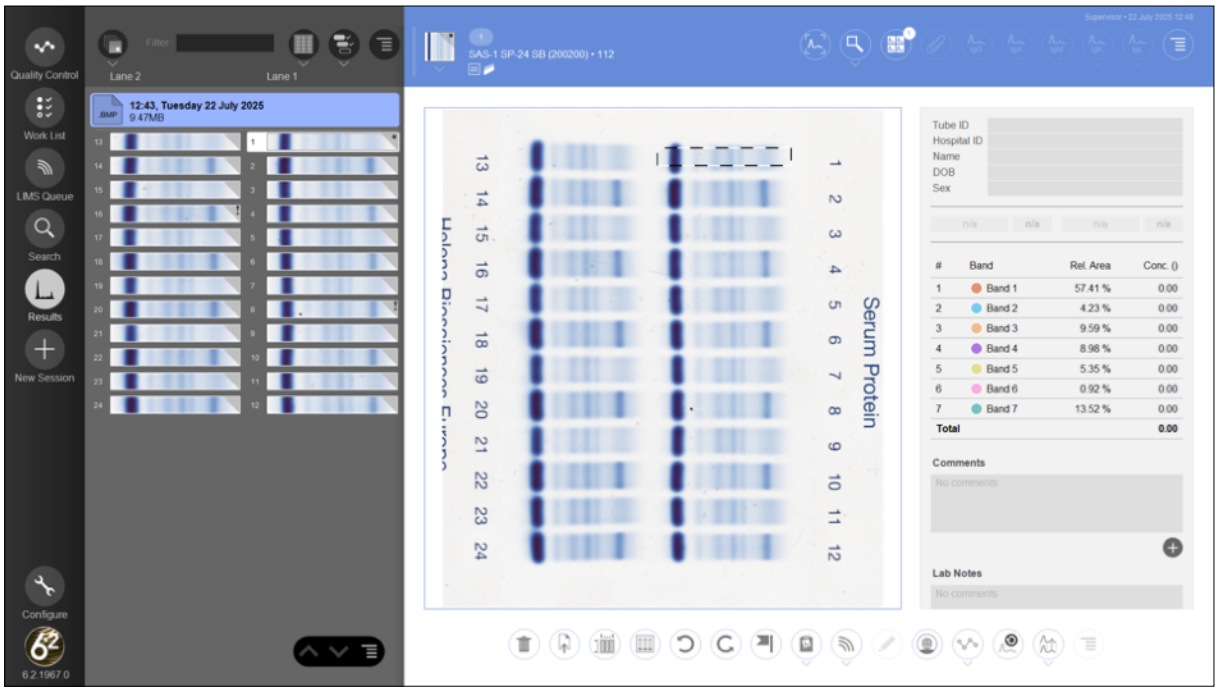
Software images



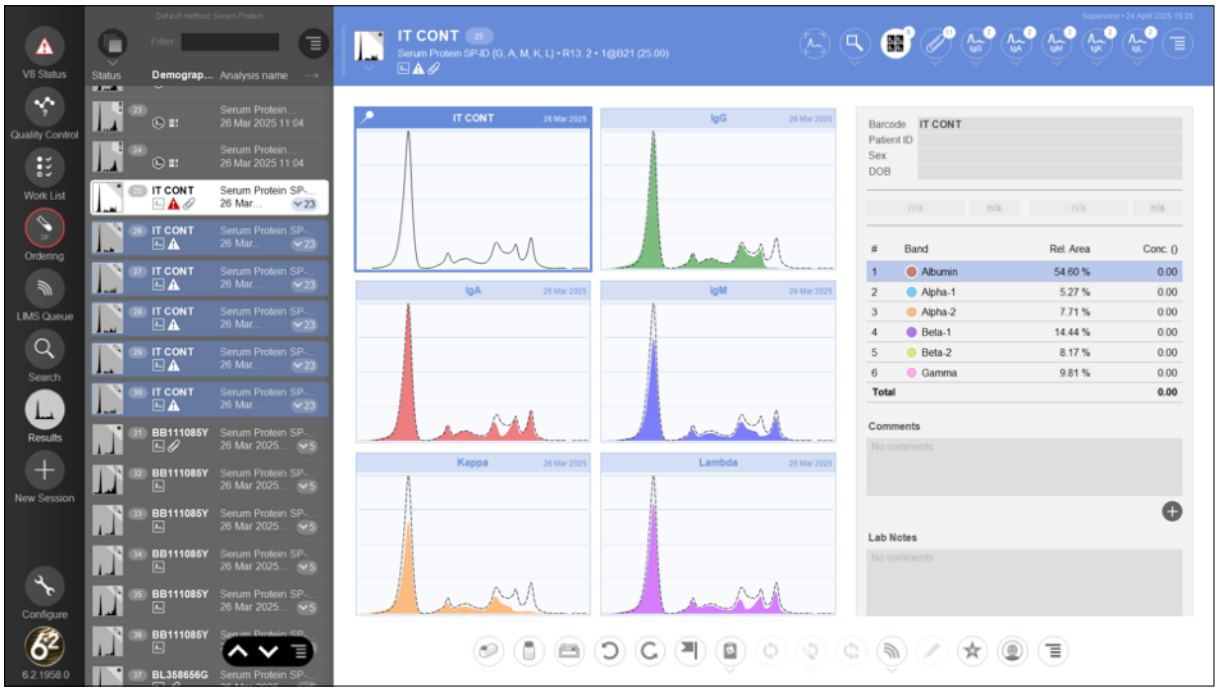
V8 status and control page, showing live instrument conditions, buffer and reagent levels. V8 Status an Quality Control buttons provide real-time status indications regardless of user activities.



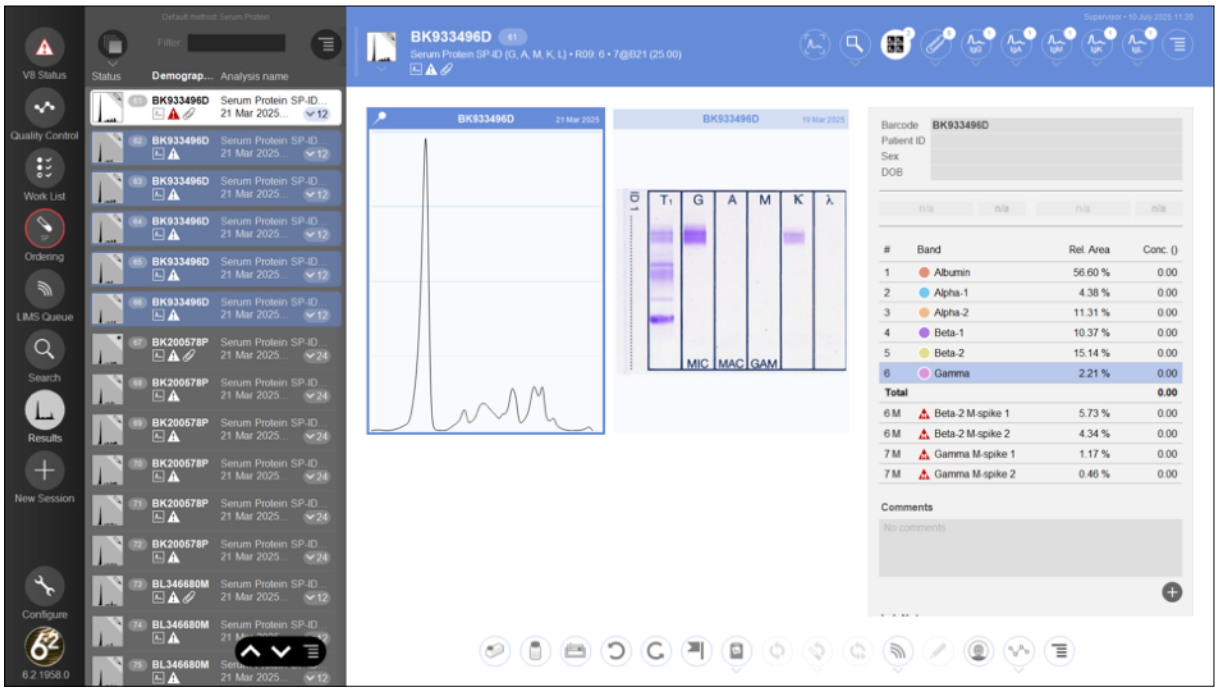
Platinum 6.2 general appearance, showing key areas (left-to-right) quick-access to functional pages, Navigation List including historical patent results, main result trace display, and Inspector.



Gel preparation, scanning and result management is fully integrated alongside capillary results.



Grid Mode provides a powerful, clear interface for comparing and reporting Immunodisplacement and Immunofixation results.



The unified Platinum workflow allows all related gel and capillary results to be seamlessly displayed together.

Quality control

V8 UltraCE and Platinum software are closely integrated to deliver a rigorous and powerful quality control workflow, providing extensive multi-lot auditing and monitoring of performance against widely accepted Westgard rules.

QC suite	
Assignment	• Easily assign sample to QC data sets from any part of the workflow • QC barcodes allow automatic assignment of samples as normal or abnormal controls
Monitoring	• Fully interactive graphical Levey-Jennings charts with customisable data visualisation • Proactive alerts when QC has failed or expired • Real-time QC status icon for rapid assessment (pass/fail/expired)
Tracking	• Generation of local reference ranges and tracking of running mean over specified period for improved precision in instrument monitoring

Rules	• Customisable SD (standard deviation) thresholds
	• Comprehensive selection and combination of multiple Westgard rules:
	  • Individual data points
	  • Multiple data points
	  • Trend analysis (consecutive data points)
	• Configurable QC reminder to support laboratory management

QC data filtering	• Powerful combination filtering of QC data on multiple criteria allows highly specific tracking of system performance, by:
	  • Date range
	  • Result status (normal/abnormal)
	  • Capillary channel(s)
	  • Result fraction(s), including one or more M-spikes

Data management

Platinum 6.2 offers immense flexibility for laboratories of all sizes and configurations, with highly networked data management and powerful aggregation of results from multiple gel and capillary electrophoresis analysers.

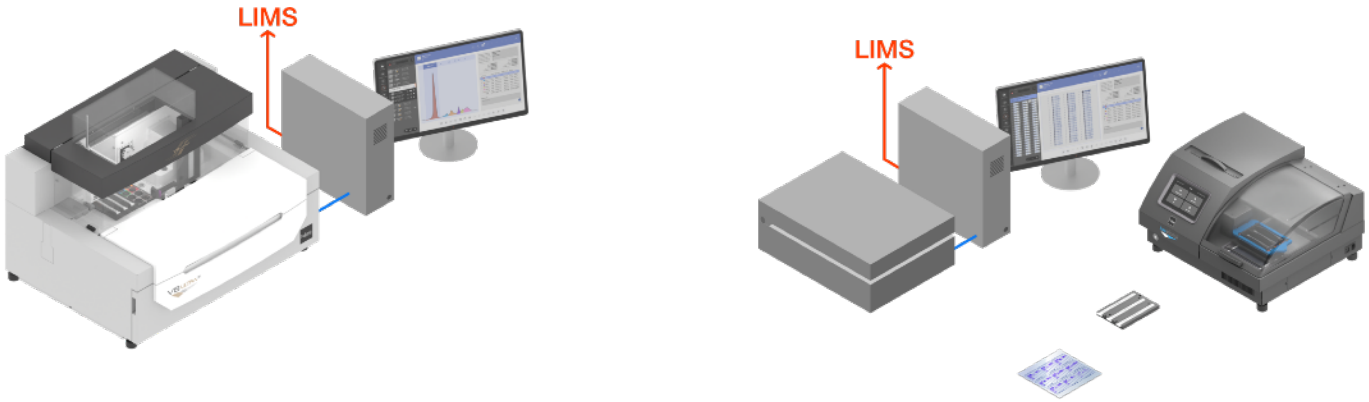
Storage and operation	
Storage and retrieval	• MS SQL database with unlimited capacity • Networked (over TCP/IP ethernet) or local data storage • Powerful search across previous sessions, on multiple fields • Improved instant historical result data retrieval NEW • Import results and clinical data from competitor systems NEW
Data types	• Results raw data (electropherograms, gel images) • QC data points and rules • Patient ID • Patient demographics • External laboratory chemistry data • Laboratory and interpretation comments
Networking	
Remote interpretation	• Remote networked interpretation, commenting and reporting • Cross-site, internet-based connectivity, secured by VPN • Authentication via user account and password
Platinum Middleware	• Pools results from multiple analysers • Aggregates V8 UltraCE and gel results from across the laboratory network into a single list for real-time interpretation • Supports remote interpretation tools and user account settings
Laboratory connectivity	
LIMS connectivity	• LIMS Gateway enables the reporting of results from multiple analysers via a single LIMS connection NEW • Bidirectional LIMS connectivity to a variety of platforms • Automated LIMS host query for methods
Patient and clinical data management	
Patient identification	• Configurable unique patient and sample identification • Patients identified by single unique identifier
Patient demographics	• 10× configurable demographic fields • Automated (via LIMS) or manual input of demographics data
Supplementary data types	• External laboratory chemistry data, up to 12 named fields • Automatic retrieval of external chemistry data via LIMS • Manual editing of demographic and chemistry data if needed • Laboratory and interpretation comments

Reporting and data export	• Configurable, template-based reports:
	  • Exported to PDF, or via Windows printing
	  • Patient results, customised per-method
	  • Quality control data
	• Export of results via LIMS or via CSV files
	• Optional removal of patient identification data from result data files

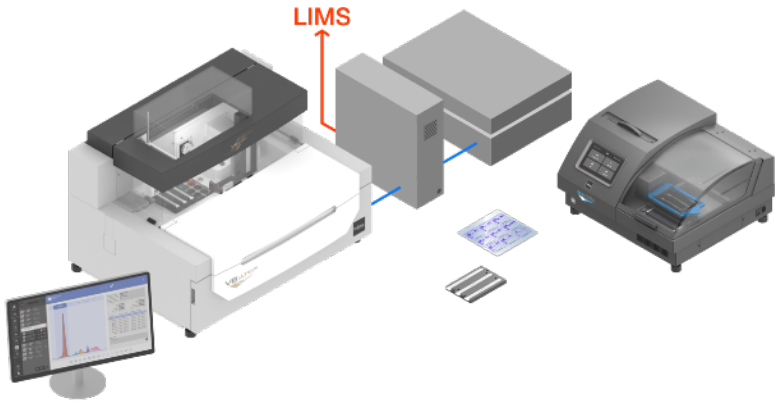
Software connectivity options

Platinum supports a wide variety of modular and extensible laboratory configurations to be achieved with minimal effort — from single analysers up to cross-site installations which combine multiple streams of data and make it available to the laboratory management systems and connected viewers.

Simple installations

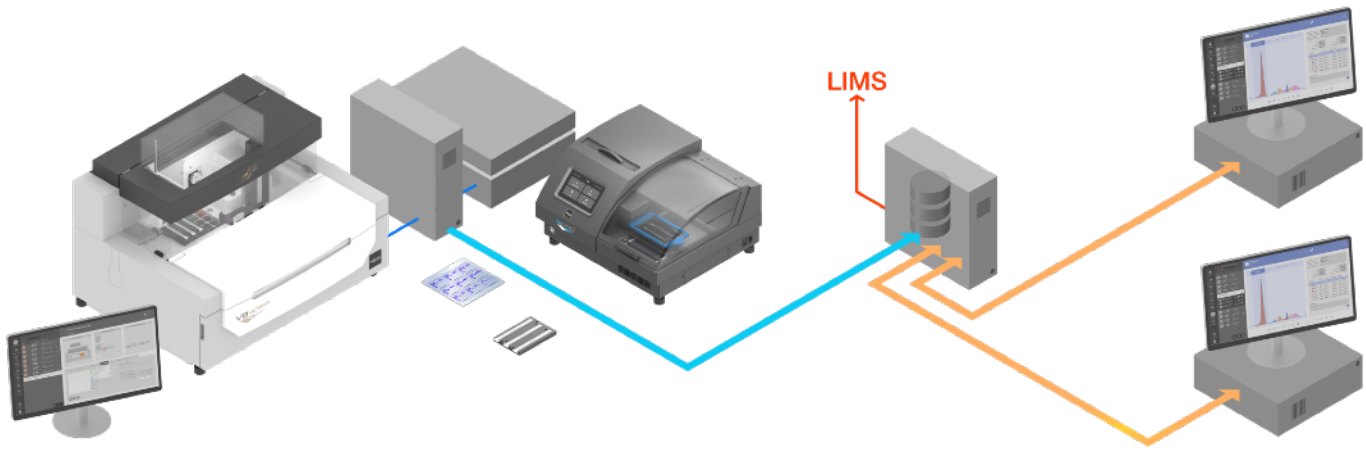


The two simplest configurations: a single V8 UltraCE, or single SAS Vitrési, each managed directly by a Windows PC running Platinum and optionally connected to the laboratory's LIMS. Result data is stored locally on the PC.



A combined capillary and gel installation, with a combined workflow managed by a single Platinum PC. Result data is stored locally on the PC.

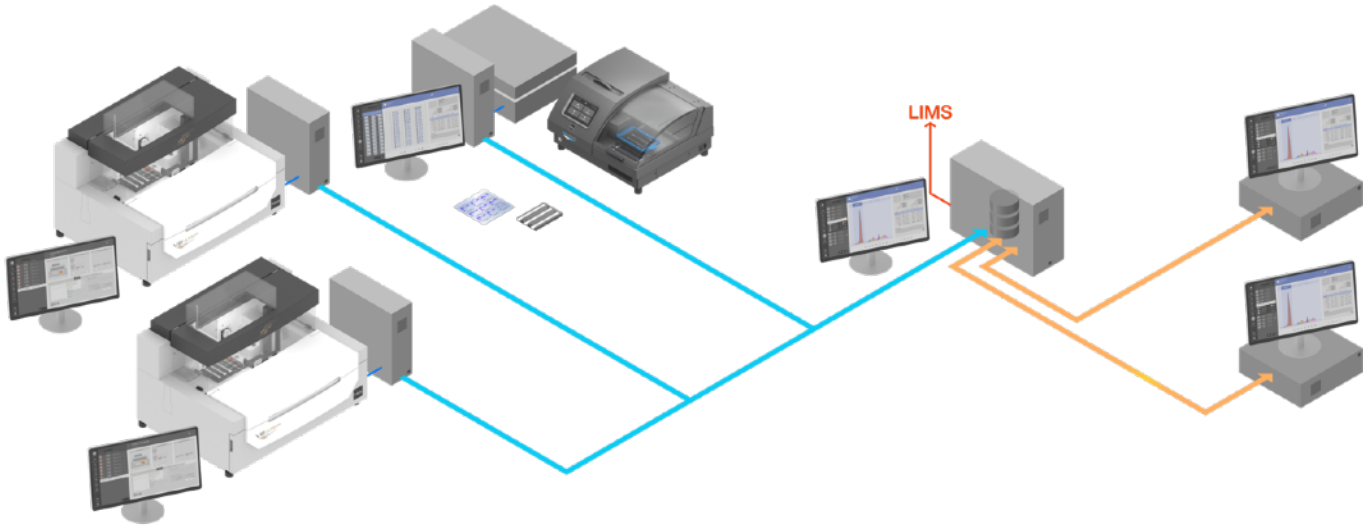
Networked installations



Networked installation, in which one or more analysers' result data is stored on a network-accessible location within the customer site. Multiple external remote viewers can access this data from across the internet.

Middleware

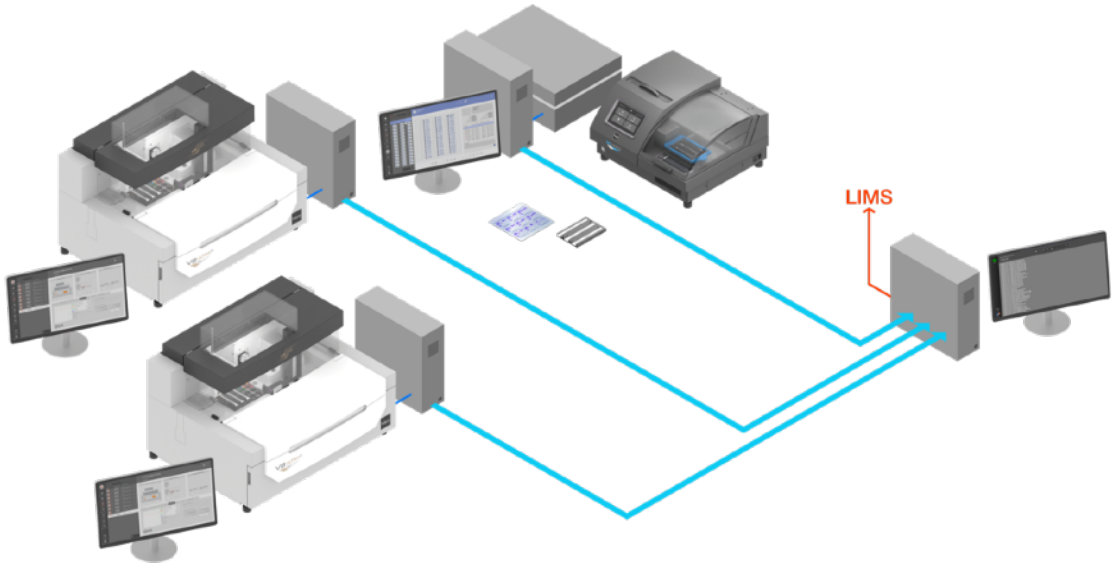
Platinum Middleware (see previous page) allows a laboratory to pool resources from multiple analysers (capillary or gel electrophoresis) into a single, unified session for interpretation and reporting to LIMS. This approach simplifies the workflow, and requires only a single LIMS connection.



Complex, multi-analyser workflow in which result data is aggregated on a dedicated local server running Platinum Middleware. Results can be viewed and reported from remote locations (across the internet).

LIMS Gateway

Platinum LIMS Gateway provides a simple method of centralising the reporting of data to the laboratory system, by collecting and re-routeing LIMS data from multiple analyser PCs and sending via a single physical LIMS connection.



The Platinum LIMS Gateway provides a central routeing capability, via which any number of local Platinum instances can report result data to the laboratory's LIMS, over a single connection.

Instrumentation workflow

As the heart of customer workflows for both gel and capillary electrophoresis, Platinum provides a unified and integrated set of tools for ordering, preparing and monitoring analytical processes.

V8 UltraCE instrument management	
Instrument status	• Live buffer, reagent and analyser error state displays • V8 status page icon provides instant feedback at all times • Full-screen alerts when operator attention is required • Live instrument and communication logs
Test ordering	• Choose from a variety of optimised analytical programmes • Customise key settings including wavelength and sample dilution • Automated default method for routine tests • Continuous automatic processing of primary sample tubes • Graphical sample rack, tube and sample assignment display • Work list facility for manual input of sample details
Processing	• Real-time progress and predicted completion display • Live electrophoregram
Diagnostics	• Sample timing and morphology warning report for each result NEW • Live capillary voltage, current, pressure and temperature graph • Real-time instrument and LIMS communication logs • Selectively disable capillaries
Gel electrophoresis workflow	
Gel tray preparation	• Unified gel workflow allows gel electrophoresis from primary tubes • Automatically or manually reflex to gel IFE • Powerful gel tray preparation with automatic or custom dilutions • Gel tray and gel ID audit trail
Scanning	• Scan direct from within Platinum • Optimised Navigation List now fits all 60 result images on screen NEW • Expanded gel image display NEW • Powerful automated gel alignment with customisable parameters • Automated lane separation and result trace generation
Interpretation	• Unified gel and capillary result layout • Serum protein and immunofixation results automatically linked by patient and sample ID • Compare gel result traces alongside capillary data and historical patient results • Grid Mode displays serum protein alongside immunoglobulin traces

Security and regulatory

User management and auditing	
Standards and regulations	• 21 CFR part 11 • ISO 13485:2016 • EN 62304:2006 • GDPR • Data Protection Act 2018 • In Vitro Diagnostic Regulation (IVDR) (EU) 2017/746

Authentication	• Improved user sign-in facilities: NEW
	  • Assign any users with user names and passwords
	  • 3 assignable customer operator levels per user account
	  • Granular control of user permissions and restrictions
	  • Optional definable password expiry period
	  • Definable password length and content settings
	  • Automatic user sign-out following a period of inactivity

User activity logging	• Detailed logs of each user action for auditing purposes

Auditing	• Full audit trail of key analytical data:
	  • Patient ID
	  • Buffers
	  • Reagents and antisera
	  • Gel tray ID and gel ID
	  • Operator ID
	  • Methods, run parameters and timestamped activity logs

Ordering

REF	Instrumentation
V801	V8 UltraCE
REF	**Consumables**
V030	Capillary Calibrator Coming soon
V8010	UltraCE Maintenance Buffer
V8020	UltraCE Storage Buffer
V8150	UltraCE IFE Diluent
REF	**Assays and controls**
V8100	UltraCE Serum Protein
V110	Serum Protein Normal Control
V120	Serum Protein Abnormal Control
V130	UltraCE Urine Prep
V8140	UltraCE Immunodisplacement
V150	Immunotyping Control
V8200	UltraCE Haemoglobin Available 2026
V210	AA2 Normal Control Available 2026
V220	AA2 Abnormal Control Available 2026
V230	AFSC Control Available 2026
V8400	UltraCE CDT Available 2026
V410	CDT Normal Control Available 2026
V420	CDT Abnormal Control Available 2026
REF	**Software**
400600	Platinum Software
400602	Platinum Expert System
400603	Platinum Middleware
400604	Platinum Track Connectivity
400605	Platinum Gateway