CIRDAN

ULTRA Enterprise

Next generation Laboratory Information System centred on improving the quality of patient care.

Transforming laboratories today
to be ready for tomorrow's pathologists.

The
ULTRA Solution

Cirdan's ULTRA Enterprise solution is a fully scalable and configurable, cloud first LIS system. Designed to assist labs with streamlining of paperless workflows, processes and results to deliver more timely, efficient, secure, and accurate outcomes to patients.

Why choose ULTRA Enterprise?

- Cirdan has a long standing legacy in delivering efficient lab systems around the world, with decades of experience and expertise.

- Proven reliability, stability and performance in single and multi-lab environments.

- Saves clinicians valuable time and resources by producing state-of-the-art reports and using automation software to end repetitive tasks, making digital transformation within the lab a reality.

- ULTRA's vendor agnostic and innovative approach allows us to develop solutions that can be customised to meet the specific needs of each customer.

- Designed for high volume data entry with minimal user input required. It has evolved around a need in laboratories for fast and accurate workflows.

Multidisciplinary LIS

ULTRA Enterprise is a 'best in breed' multidisciplinary LIS system, which provides end-to-end clinical, analytical, and managerial solutions for all laboratory disciplines.

- Cell Pathology
- Transfusion Medicine
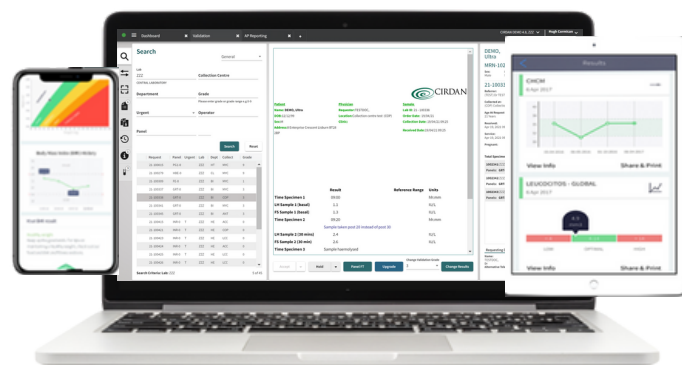- Biochemistry
- Haematology

- Microbiology
- Genetics
- Veterinary
- Pre-Clinical Work

Modular

Based around the core application, ULTRA Enterprise uses specialist laboratory modules designed to work as standalone or fully integrated solutions. To provide options to laboratories, the interface to the specialist modules is deployed through a powerful, modern web-based interface.

Clinical Expertise

Cirdan empowers users by offering access to Subject Matter Experts (SMEs) for support, installation, and business improvement projects when needed. Additionally, ULTRA can be operated with advanced failover and disaster recovery plans, offering peace of mind and a clear risk reduction strategy for managers and administrative staff.
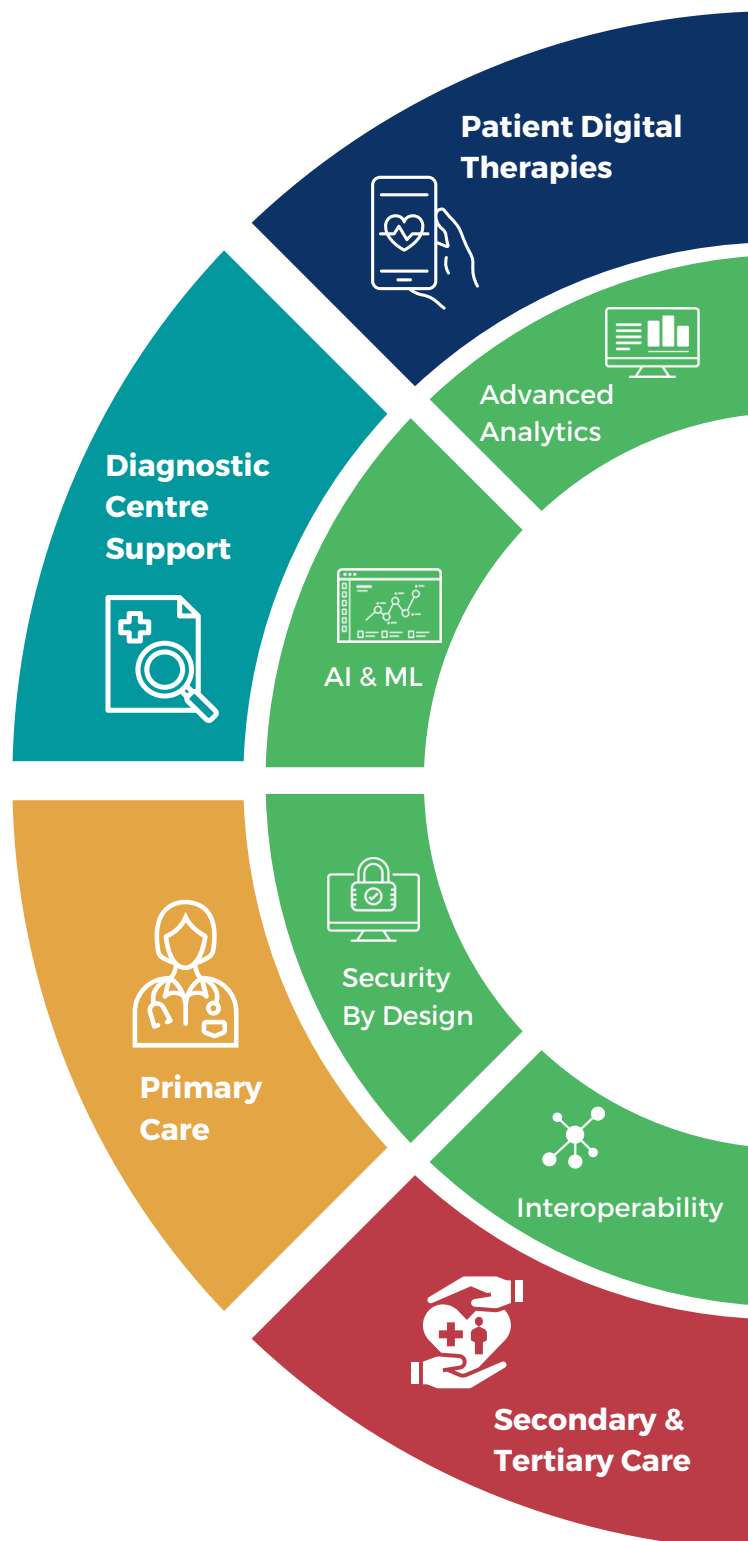
Intelligent Solutions for Pathology

In addition to the core and clinical modules with the LIS, Cirdan can also offer integrated support for pathology centred digital therapies.

Cirdan Patient/ Clinician Portals and Mobile Apps

- Available for Clinicians (Practitioners) and Patients, to provide efficient reliable communications solutions to minimize interruptions to workflows.

- Provide clear presentation of laboratory results in the appropriate formats for the required audiences.

- Enabling efficient Pathology centric digital therapies for patients.

- Available on browsers and/or iOS/Android mobile devices.

Cirdan Collect
Sample Collection Mobile App

- Step-by-step guided digital workflow to ensure reduced pre-analytic errors by assisting with positive patient identification, point of collection specimen labelling, the correct order of draw, appropriate container types and the collection of the appropriate quantities required.

- The App also collects critical information on collecting samples such as which date, time and location of the draw.

- Laboratories can get a real time dashboard to see the collections as they occur to prepare workloads as they then received into the lab.

- Rapid deployment across a range of mobile devices (phone and tablet supported) allows for scalability to operate from Wi-Fi or 4G/5G network to operate in hospital wards or rural community settings.

Patient Digital Therapies

Advanced Analytics

Diagnostic Centre Support

AI & ML

Security By Design

Primary Care

Interoperability

Secondary & Tertiary Care

Seamless Digital Pathology

Building on Cirdan's extensive work in Digital Pathology (DP) we have developed a fully integrated DP enabled LIS, without the need for third party solutions. Access to Images including Whole Slide Images (WSI) and other digital information from anywhere, saves time and improves collaboration including, slide and data exchange between multiple labs. Digital images with annotations also provide a powerful resource for future analytics.

Main features are:

- Powerful Image Annotation features using an emerging Standard

- Efficient synoptic reporting aligned with national guidelines while reviewing images and automated regulatory reporting including national cancer registries.

- Seamless integration with Cell pathology workflows including managing grossing, slides and stains.

- Workflows can be directly or through various vendor middleware solutions.

- Integrates to all the leading WSI Vendors and file formats.

- Facilitates remote working and collaboration.

- Integrated access to Cirdan's ML/AI algorithms or third-party algorithms for image processing and analysis.

Improving Laboratory Productivity

ULTRA Enterprise utilises the latest AI and Machine Learning practices to automate and improve laboratory productivity.

ULTRA Enterprise saves valuable time and resources by producing state-of-the-art reports and using automation software to reduce repetitive tasks, making digital transformation within the lab a reality.

Powerful product features to make laboratories more efficient

- Quick links to occupying information
- Using sources of truth & enter only once
- Batch processing & worklists
- Auto reflexing

- Dashboards & reports
- Quick links to occupying information
- Extensive digital dictation

Improved productivity using the latest AI tools and Integration

- Prioritization /Triage
- Quantification
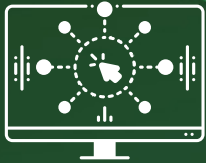- Auto annotation

- Supervision
- Quality control

Key Features

Synoptic Reporting

- Customisable Patient reports, including tables, charts, images, and hyperlinks.
- Multi-Disciplinary reporting.
- Atomic data, with the ability to add free text, images and multi-media documents.

Powerful Workflows

- Flexible Worklists.
- Dashboards.
- Powerful Rules Engine.
- Extensive Specimen Tracking.

Flexible Billing

- Highly flexible to handle billing or costing information that can be integrated with a variety of finance packages.
- Extensive experience of interfacing with public and private healthcare billing systems around the world.
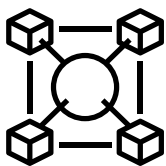
Security

- Highly secure and confidential patient data with full concordance with data protection principles.
- Customised control of access.
- Data protection confidence guaranteed.

Support

- 24x7x365 Clinical and IT support.
- Further extensive training options available.
- Access to Cirdan's e-learning portal.
- Regular updates with feature enhancements.
- Industry leading reliability.

Highly Interoperable

- Compliant with the latest regulatory and interoperability standards and access for FHIR.
- API Compatibility.

Advanced Reporting

- Support for Clinical Coding systems including SnomedCT, CPT & ICD-10.
- Reporting of results, PDF reports, and more using HL7 and other interoperability standards.

Advanced Data Analytics

- Easily mine data for administrative, clinical, research or administrative needs.
- ML driven insights.

Revolutionising Healthcare

Cirdan is leading the way in the revolution of healthcare by offering cloud-based availability within the LIS, in preparation for the next generation of Pathologists.

Benefits

Flexibility

Users can scale services to fit their needs, customise applications and access Cloud services from anywhere with an Internet connection.

Efficiency

Users can deploy applications quickly without worrying about underlying infrastructure costs or maintenance.

Strategic Value

Cloud services can offer a competitive advantage by providing the most innovative technology available.

Why Cirdan?

The Cirdan team has extensive experience in successfully delivering over 100 Laboratory Information System installations over the past 20 years.
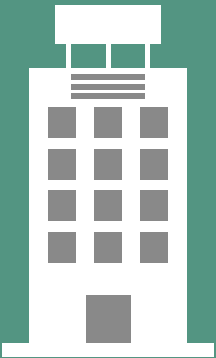
Cirdan are committed to working with clients to find the best solution fitted to your laboratory workflows and processes, resolving any current challenges your lab have. We are dedicated to innovation and improving laboratory workflows to ultimately improve patient care on a global scale.

The Future

ULTRA has been designed to evolve with the clinical and technological requirements of pathology laboratories. Cirdan is looking to the future to see how new technologies can add value. We use feedback from our annual Pathology Horizons conference, an open environment for thought leaders, to explore how we co-operate to improve the patient experience.

Innovative Multi-Site Pathology

ULTRA Enterprise has proven reliability, stability and performance, from small single independent laboratory labs through to large multi-lab environments including local, regional and national laboratories.

Single Laboratory

1 Laboratory

25 Staff

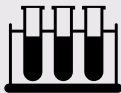2 Million Test Sets/Annum

50 Analysers

Regional Multi-Site Laboratory

5 Laboratories

450 Staff

25 Million Test sets/Annum

150 Analysers

National Multi-Laboratory

90 Laboratories

3,800 Staff

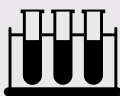~80 Million Test Sets/Annum

450 Analysers

International CRO Multi-Laboratory

9 Major Laboratories

3,000 Staff

10 Million Test Sets/Annum

200 Analysers

About Cirdan

Cirdan was founded with the aim of developing medical devices to accelerate and enhance the diagnosis of patients. Cirdan has linked itself closely with leading global collaborators with the purpose of staying ahead of the rapidly changing technological, workflow and data requirements that are challenging modern laboratories. The company operates globally, with its headquarters in Lisburn (UK & Ireland) and further offices in Canada and Australia. This distribution allows Cirdan to offer 24/7/365 clinical and technical support to clients around the world.

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CIRDAN

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bsi. ISO 13485 Medical Devices Quality Management

bsi. ISO 9001:2015 Quality Management

nqa. ISO 27001 INFORMATION SECURITY MANAGEMENT