bmd
biomedical diagnostics

Immuno Concepts
Image Navigator® V4 software

WE THINK LAB

- ✓ Leading IFA imaging system across many markets
- ✓ Superior software based on customer needs
- ✓ Acquisition of Immuno Concepts HEp-2000®, ANCA and tissues
- ✓ Helmed and Beeline compatible with bidirectional interface

WE THINK USER

- ✓ Easy to navigate software for acquisition and reporting
- ✓ Color Coding of results for ease of identification
- ✓ Result preview for sneak peek before reporting
- ✓ Smart pattern assists to help with pattern confirmation

WE THINK IMAGES

- ✓ Full screen panorama view displaying 35% and 80% of the well
- ✓ Superior focus routine in the presence of air bubbles and dirt
- ✓ High quality images

WE THINK RESULTS

- ✓ 80% of screen dedicated to image view for ease of reporting
- ✓ Batch release of negatives allows for quick results release
- ✓ Estimated final dilution to help standardize reporting and save on dilutions

WE THINK FLEXIBLE

- ✓ Customisable pattern menu for up to 99 pattern names
- ✓ Individualised cut-off matched to your testing population
- ✓ Flexible screening dilution base

Hardware

Nikon Ci-S microscope
- High quality binocular head for digital camera 0/100%
- Optimized c-mount for camera
- High quality 10/22 oculars
- High quality 40x/20x/10x Fluor objective and 4x Plan for calibration
- LED 480nm lightsource and filter block for FITC stained samples
- Digital camera with LiveView Software and picture capturing features
- Ultra precise motoric stage +/-1 micrometer precision holding four or eight [option] slides with joystick and control software

PC System
- Ultra Durable QUIET PC System optimized for IN Software with Win10 64bit ultimate OS multilingual
- Local language Keyboard
- High quality EIZO 24" screen with IPS Panel, ICC calibrated.
- 1x SSD for operating system and 1x3TB harddisk for Image Navigator Software and data with backup and mirror software
- The PC System is pre-set and ready to use with all software and hardware settings.

Physical dimensions
- Width: 60 inches (152 cm)
- Depth: 24 inches (61 cm)
- Height:24 inches (61 cm)
- Weight: 87 pounds (39.5 kg)

Features of the System

- Dark Mode screen layout for less stress on the eyes
- Positive Patient Identification by Automatic on board 2D Barcode verification
- Bidirectional communication with several pipetting stations – no need for middleware or connection via hospital network
- On board network and scaling ability to combine unlimited numbers of workstations and remote review stations and servers without additional middleware
- Proprietary fast focus routine with enhanced resistance to airbubbles and dirt on coverslip
- Propietary Shepherd Graphical User Interface that guides the users through the steps of the software and avoids crowded screens by eliminating options and buttons that are not used in this step
- Ergonomic screen layout to avoid mouse moves and clicks

Preferences and hardware verification module:
- multiple levels of permissions for operators and administrator
- Individual preset of screen titer
- Individual preset of sorting values incl. sensitivity or specificity option
- Individual preset of titer steps for ANA, ANCA, Crithidae
- Individual preset of controls
- Hardware verification module with color feedback on functionality of hardware
- Light path verification module with verification slides

Negative Review Module
- Large pictures tiles for easy decision and immediate batch release of the negative results

Positive Review Module
- Panorama View assembled of 4 pictures for Hep-2/ ANCA / nDNA showing 35% of the well two zoom steps
- Panorama Pictures assembled of 16 pictures for tissue slides showing 80% of the well Three zoom steps
- Individualized pattern list [99 patterns] in local language allows multiple choice and combinations
- Optional Pattern recognition for Hep-2000 and ANCA for positive samples
- On the fly PATTERN ASSISTANT with lay overview to compare with patient sample
- Information on the Intensity Index of the sample
- Calculation of the estimated end titer of the sample and automatic ordering of titers – optional
- Cytoplasmic patterns can be reported with a negative result for ANA - optional
- Visual Inspection choice creates a list with slide ID and well no. for ocular review if needed
- Individualized follow up test choice
- Auto export of chosen titrations for next days autofill list in the right order of titers
- Security function with electronic signature and multiple levels of operator allowance
- Multiple reviews possible, system shows result of previous viewer

Control review module
- Large Thumbnail view of all controls of the run, double click zooms all four taken pictures and right mouse-click validates or not.

Titer review module
- Large Tile view of each patient with up to 12 titers – Panorama View
- Pattern Assistant on the fly
- Titers can be split over slides and will be assembled in correct order
- End Titer for ANA can be chosen separate from last positive dilution i.e. AMA 1:1280 but Speckled 1:640 – end titer ANA is 1:640

Report module
- Worklist report with one picture per sample
- Patient reports with one picture per sample
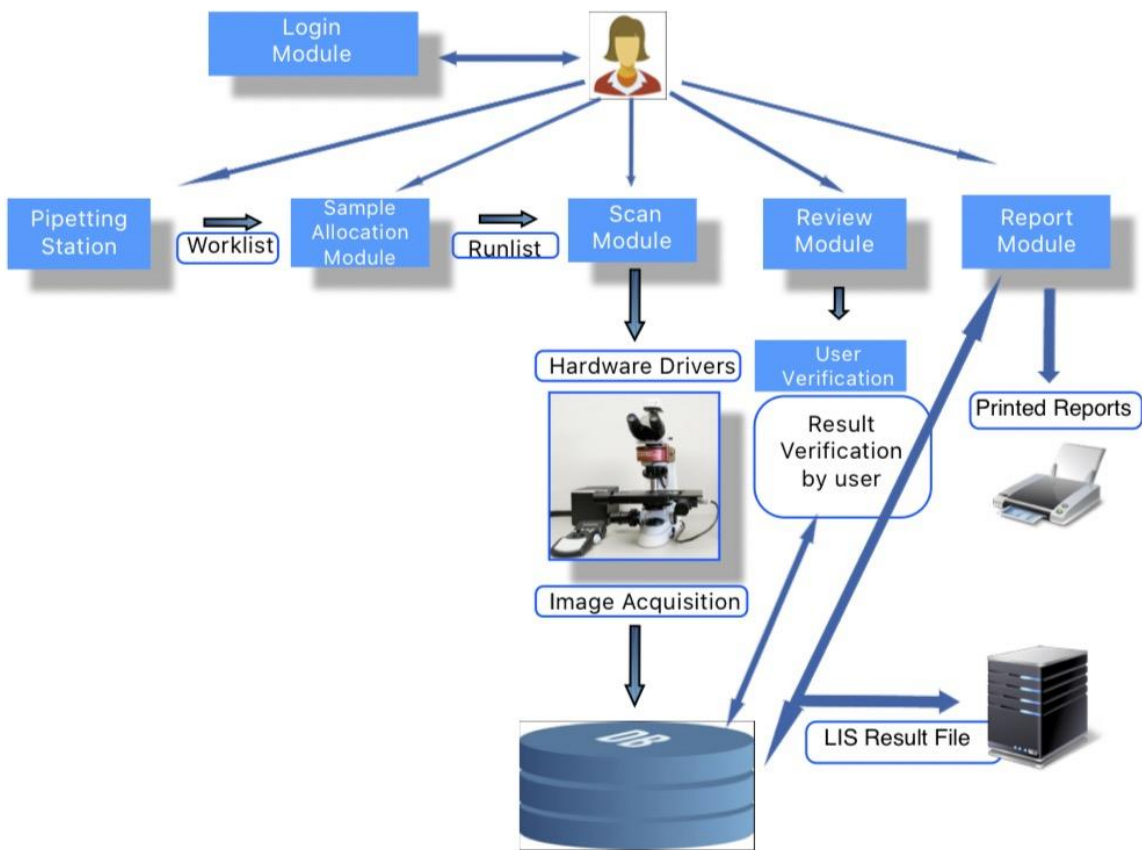- Pipetting List for the daily routine (Sorted by slide ID / showing well and sample ID)

Image navigator software

Immunofluorescent Assays (IFA)

HEp-2000® ANA	dsDNA	ANCA Ethanol	ANCA Formalin	Rodent LKS	EmA
7 & 14 wells	7 & 14 wells	7 & 14 wells	7 & 14 wells	4 & 8 wells	4 & 8 wells