

NOTE: For access to the full user manual for this product, please visit www.heska.com/productmanuals.

Getting Started

NOTE: For Administrative accessibility, enter USER ID: Admin and Password: Admin to log in.

- Resume from standby.
 - Screen shows "Touch screen to access menu".
 - Once out of screen-saver mode, analyzer shows "Standby. Touch aspirate key to exit" in bottom left of screen.
 - Touch **ASPIRATE** key (behind sample probe) to exit Standby. Analyzer displays "Exiting standby status..."
- Run probe cleanser, if prompted. (Figure 1)
 - Present Probe Cleanser to sample probe and aspirate by touching **ASPIRATE** key. (Approx. 2 minutes)
- Run background:
 - From the Sample Analysis tab, touch **NEXT SAMPLE**. (Lower screen)
 - If required, enter Sample and/or Patient ID.
 - Access Species pull-down, select [Background].
 - Touch **OK**. Confirm that Background is listed next to species near top of screen.
 - Touch **ASPIRATE** key to run Background.
 - Confirm all results are within acceptable limits. (By parameter)
 $WBC \leq 0.30$ $RBC \leq 0.03$ $HGB \leq 0.1$ $HCT \leq 0.5$ $PLT \leq 10$
- Run quality control:
 - From QC tab, confirm File Number represents current lot number being used, and is not expired.
 - Never use an open vial longer than recommended by the manufacturer (14 days) or subject any vial to excessive heat or agitation.
 - Make sure QC is properly mixed and has been warmed to room temperature for 10–15 minutes.
 - Present QC vial to sample probe; touch **ASPIRATE** key.
 - Confirm all results are within limits.



Figure 1

Sample Collection and Handling

- Correct sample processing is the most important step in obtaining accurate results on an automated hematology system.
- Sample guidelines:
 - Use 22-gauge or larger size needle to prevent hemolysis.
 - Immediately transfer blood into an EDTA anti-coagulated (purple-top) collection tube.
 - Remove stopper from tube and needle from syringe to fill –OR–
 - Push needle through stopper and allow vacuum to fill tube. Do not press on syringe plunger.
 - Fill at least 1/2 full.
 - Invert tube 8 to 10 times to properly mix sample.
 - Check for clots and/or fibrin with 2 wooden applicator sticks.
 - Analyze sample as soon as possible after draw. Samples should be analyzed no later than 4 hours after draw.
 - If sample will not be analyzed immediately, mix blood sample for at least 1 minute prior to analysis.

Sample Analysis

- Touch **SAMPLE ANALYSIS** tab. Touch **NEXT SAMPLE**.
- Enter desired patient information such as Sample/Patient ID, Species, Gender, etc.; Touch **OK**. (Figure 2)
- Introduce sample to aspiration probe and touch **ASPIRATE** key. Analyzer beeps and retracts sample probe when patient sample (15 µL) has been aspirated.
- Review results:
 - On-screen values, scatter plots, histograms and reference range flags plus sample pathology messages, if present.
 - Touch **SCATTER PLOT** to view 2 additional scatter plots.
 - Touch **WBC** column to view reference ranges; Touch **RBC/PLT** column to view reference ranges.
 - Review results.



Figure 2

Entering a New Control Lot

- Assigning values for new lots of QC:
 - Download current control lot number information onto a USB memory stick from www.Heska.com.
Select: [Blood Diagnostics] ► [ElementHT5] ► [Resources Tab] ► [Normal Control Values].
 - Select QC tab; insert USB memory stick into open USB port on analyzer.
 - Select [Setup] ► [New] ► [Import File], and allow files to load.
 - Select desired control file to import and touch **OK**.
 - Select [Return] ► Save? [Yes].

Maintenance and Reagents

- Daily probe cleansing maintenance. (Figure 1)
 - Analyzer will prompt for probe cleansing maintenance based on a 24 hour interval from the last probe cleansing cycle. (Approx. 2 minutes)
 - User can defer probe cleansing until a more convenient time.
NOTE: Probe Cleansing maintenance can be deferred a maximum of 2 times.
 - Present Probe Cleanser to sample probe and aspirate by touching **ASPIRATE** key.
- Changing reagents.
 - From Reagent Setup tab, touch **SETUP**.
 - Scan barcode for reagent you are replacing and confirm Reagent Name, Exp Date and Volume are populated. Touch **APPLY**.
 - If you are changing more than one reagent, touch **SETUP** again, scan barcode and touch **APPLY**.
 - Once all reagent barcodes have been scanned and applied, touch **CLOSE**. Verify all reagents that were replaced are listed. Touch **OK**. The analyzer will prime systems with new reagent(s).