

# Swelab Alfa Plus

## Standard model – hematology analyzer

Five-sample mixer, micro-pipette adapter and shear-valve sampling: ideal for doctors' offices and small labs.



7"

touch screen

60

samples / hour

20  $\mu$ L

capillary CBC

50,000

sample records



### Pediatric specification – summary

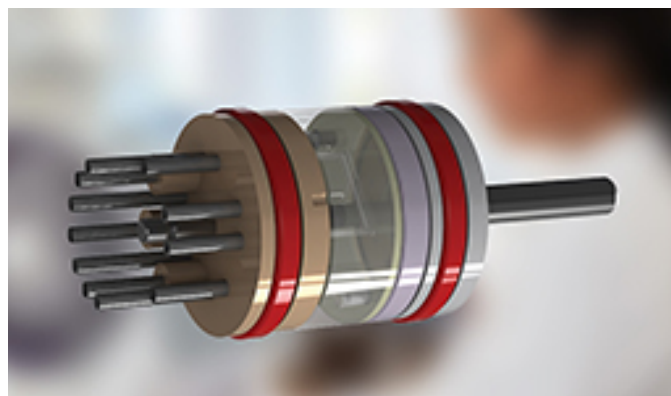
- **Tiny sample:** full CBC from 20  $\mu$ L of blood, taken by finger prick (MPA adapter).
- **Gentle:** no needles, vacuum tubes, preparation or pre-dilution.
- **Fast:** full blood status in about one minute.
- **Complete:** 22 parameters; CV WBC 1.7 %, RBC 0.9 %, HGB 0.5 %, PLT 3.0 %.
- **Low platelets:** automatic PLT extended count (3x platelets counted), marked \*.

### Key features



#### MPA finger-prick sampling

Draw 20  $\mu$ L into a micro-capillary tube, insert it, and see the full blood status in about one minute.



#### Maintenance-free shear valve

High-precision sampling: the most precise way to collect blood, built into this model.

#### 7" color touch screen

WVGA display with clear sample views and reference bars. Simple menus, 50-character IDs and 50,000-sample memory.

#### PLT extended count

Severe thrombocytopenia is detected automatically; three times more platelets are counted for a more accurate low-PLT result.

#### Connectivity & QC

4 USB ports and LAN with HL7 LIS/HIS communication. QC software with tri-level controls and Levey-Jennings charts.

## Alfa Plus Standard

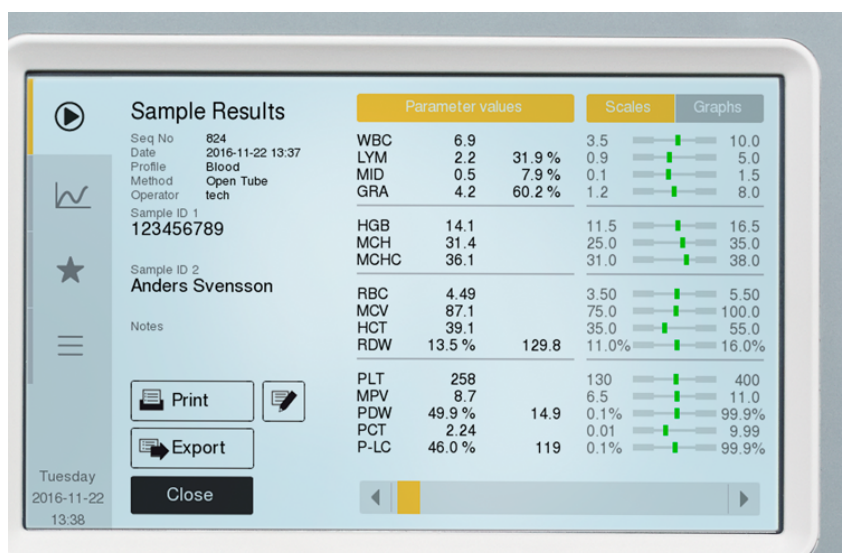


### Alfa Plus Standard

Five-sample mixer, ideal for doctors' offices and small labs. Includes the micro-pipette adapter (MPA) for finger-prick sampling.

#### Included features

- Built-in tube mixer
- Micro-pipette adapter (MPA)
- Shear valve sample aspiration
- Pre-dilution mode



Sample results view with parameter values, scales and reference bars

## Technical specification

|                  |                                                                                                                                                            |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameters       | 22: 16 diagnostic (WBC, LYM, MID, GRAN, LYM%, MID%, GRAN%, RBC, MCV, HCT, PLT, MPV, HGB, MCH, MCHC, RDW%) + 6 research (RDW, PCT, PDW%, PDW, P-LCR, P-LCC) |
| Throughput       | 60 samples/hour; time to result < 50 s (open-tube inlet)                                                                                                   |
| Sample volume    | Open tube 110 µL • Capillary (MPA) 20 µL • Prediluted 20 µL                                                                                                |
| Precision (CV)   | WBC 1.7 % • RBC 0.9 % • MCV 0.4 % • HGB 0.5 % • PLT 3.0 %                                                                                                  |
| Linearity        | PLT 10–1800 × 10 <sup>9</sup> /L • RBC 0.30–7.00 × 10 <sup>12</sup> /L • WBC 0.20–130.0 × 10 <sup>9</sup> /L • HGB 2.0–24.0 g/dL                           |
| Reagents         | 2 RFID-locked reagents: Swelab AlfaDiluent and AlfaLyse                                                                                                    |
| Display & memory | 7" TFT color touch screen • 50,000 samples                                                                                                                 |
| Quality control  | QC software; tri-level controls (L, N, H); Mean, SD, CV%, Levey-Jennings, X-bar                                                                            |
| Connectivity     | 4 USB ports, 1 LAN (LIS/HIS via HL7); PCL 3/5e PostScript-compatible printers                                                                              |
| Size & weight    | 295 × 475 × 395 mm (W × D × H) • ≤ 18 kg                                                                                                                   |