

# HemoScreen

True point of care hematology



**FDA**

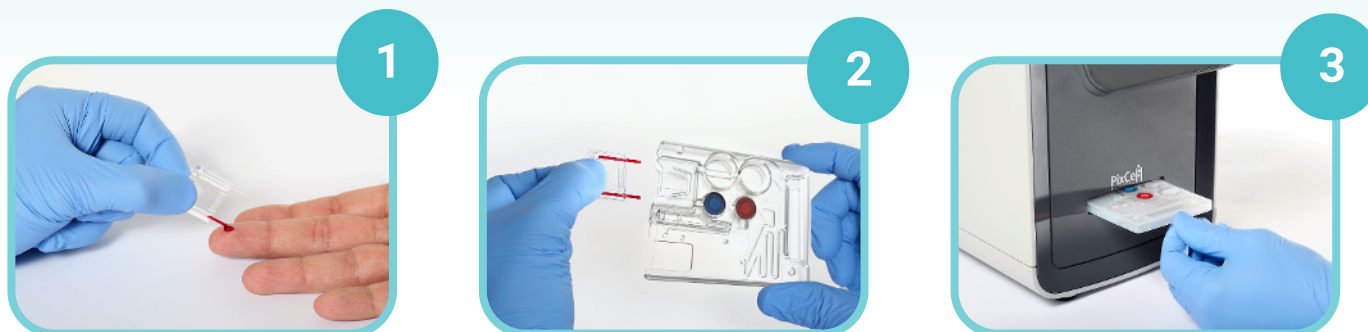
Cleared for  
Point of Care



5 Minute  
Results

## Effortless

The HemoScreen™ analyzer makes blood testing exceptionally simple, using a disposable cartridge that includes all necessary reagents and requires no maintenance or calibration.



## Accurate

HemoScreen™ measures 20 standard CBC parameters, including 5-part differential, with the accuracy and precision of the most advanced central lab analyzers.

Its performance has been validated in multiple scientific peer-reviewed studies\*. The analyzer is FDA-cleared and CE-marked for both venous and capillary blood samples. HemoScreen™ also offers a comprehensive flagging panel for the presence of WBC, RBC, and PLT distributional and morphological abnormalities.

## Robust & Portable

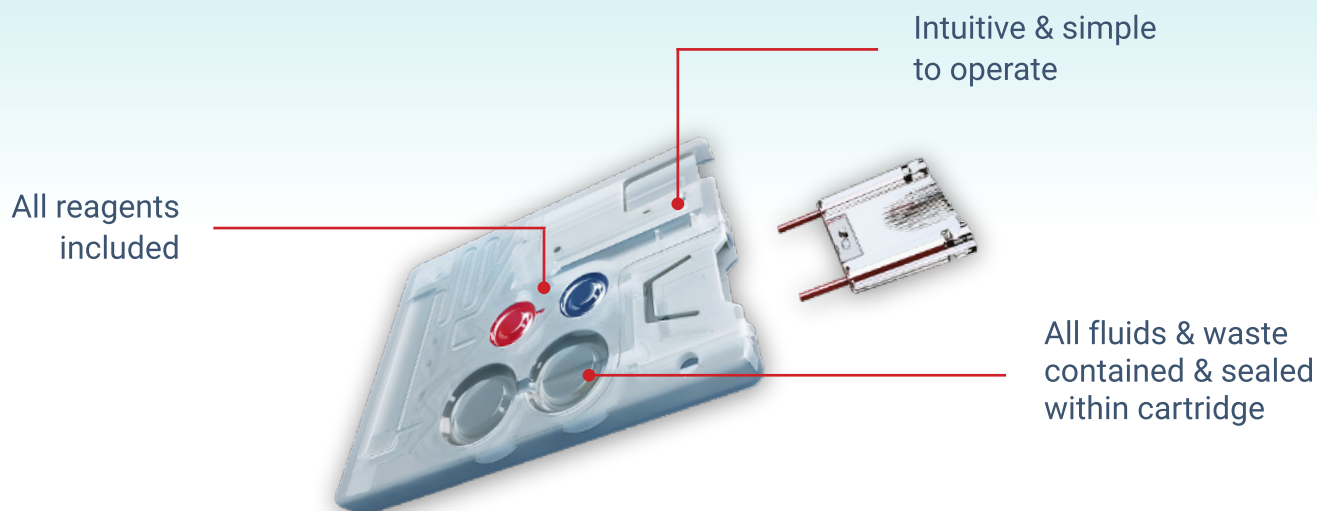
HemoScreen™ has been specifically designed to withstand the demanding point-of-care environment and maintain performance no matter the operator's experience level.

- Small footprint and robust build so it fits in any spot.
- Exceptionally simple to use.
- No maintenance.
- No reagent handling.
- No calibration required.



\* see [www.pixcell-medical.com/evidence](http://www.pixcell-medical.com/evidence)

# All-in-One Cartridge



## Primary Care

Lab-quality diagnostics for a wide range of pathologies – right at the doctor's desktop.



## Emergency Medicine

Real-time CBC in time-sensitive treatment, where every minute matters.



## Pediatrics

Enhancing access to CBC for children, utilizing in-clinic capillary sampling.



## Blood Centers

Simplifying procedures and overextended workflows in blood centers.



## Oncology

Streamlining treatment procedures and enhancing diagnostics in infusion clinics and treatment monitoring.



## Psychiatry

Clozapine clinics are required to perform routine CBC and seek a simpler solution.



## Surgery & ICU

Patients treated in ICU or undergoing surgery suffer from Hemorrhage and require immediate CBC results.



## Military & Government

Deployed by various DoD and MFA departments globally – on vessels, in field hospitals, embassies, and more.

## Physical Specifications

### Analyzer dimensions & weight

| Height | Width  | Depth  | Weight |
|--------|--------|--------|--------|
| 30cm   | 17.5cm | 26cm   | 5.5kg  |
| 11.8in | 6.9in  | 10.2in | 12.1lb |

**Throughput:** ~10 samples/hour

### Operating temperature & humidity:

+17°C (+63°F) to +27°C (+81°F)

Relative humidity of 10%-90% maximum (without condensation)

### Specimen volume:

CBC mode: 20µl | Diff mode: 20µl

### Power requirements:

Power supply: 100–240VAC, 2-4A, 50/60Hz

Power consumption: Approx. 60W

## Software Specifications

### Data Processing

- LCD display and touch panel
- Operating System: Windows 10
- Connection: Ethernet, USB
- Connectivity: Bi-directional LIS & middleware support
- Connectivity standards: HL7 & POCT1-A
- Optional: Barcode reader, printer

### Quality Control

- PIX002 PIX-CBC 3-levels liquid control (R&D Systems, MN, USA, a Bio-Techne company)
- Target values download (USB, 2D barcode reader)

## Parameters & Performance Data

### 20 parameters:

|             |
|-------------|
| WBC         |
| NEU# & NEU% |
| LYM# & LYM% |
| MON# & MON% |
| EOS# & EOS% |
| BAS# & BAS% |

|        |
|--------|
| RBC    |
| HGB    |
| HCT    |
| MCV    |
| MCH    |
| MCHC   |
| RDW-CV |

|     |
|-----|
| PLT |
| MPV |

Including flagging of immature granulocytes (IG), nucleated RBC, blasts and atypical lymphocytes.

### Linearity:

| Parameters | Units               | Linearity Limits |
|------------|---------------------|------------------|
| WBC        | 10 <sup>3</sup> /µL | 0.25 – 95        |
| RBC        | 10 <sup>6</sup> /µL | 1.0 – 8.8        |
| HGB        | g/dL                | 3.0 – 25.0       |
| HCT        | %                   | 9.0 – 78.0       |
| PLT        | 10 <sup>3</sup> /µL | 7 – 988          |

### Precision (repeatability):

| Parameters | Units               | CV (%) |
|------------|---------------------|--------|
| WBC        | 10 <sup>3</sup> /µL | ≤5.0   |
| RBC        | 10 <sup>6</sup> /µL | ≤2.2   |
| HGB        | g/dL                | ≤2.2   |
| HCT        | %                   | ≤2.3   |
| PLT        | 10 <sup>3</sup> /µL | ≤3.5   |

## Measurement Principles

HemoScreen™ uses a patented technique called viscoelastic focusing, which causes the cells to perfectly align into a single plane. High resolution microscopic images are taken of the flowing cells. Each image is then analyzed using machine vision and AI algorithms, and the various cell types are differentiated and counted. WBCs are stained prior to analysis to enable differentiation between their sub-types and abnormal cells. HGB is calculated based on the optical density measured on individual, intact cells.

The HemoScreen™ analyzer is factory calibrated. No further calibration is required.

## Standards

- IVDD 98/79/EC
- EN ISO 13485
- IEC 61010
- IEC 61010-2-101:2019
- EN 60601

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