



# **VetAutoread**<sup>™</sup>

HEMATOLOGY ANALYZER

**IDEXX**

# IDEXX VetAutoread™ Hematology Analyzer

## Features

### Ease of Use

- Simple to operate in-house - No daily quality control required
- Minimal maintenance needed
- Built-in diagnostic reminders

### Consistency

- Precision optics scan each sample eight times while the analyzer's software conducts analysis
- Buffy coat profile printout verifies instrument results, which helps prevent misinterpretation

### Speed

- Saves time by automatically measuring hemogram and three-part differential with no manual hemacytometer counts

## Specifications

<b>Species:</b>	canine, feline, bovine and equine
<b>Sample size:</b>	111 µL
<b>Sample type:</b>	whole blood with EDTA
<b>Analysis time:</b>	6 minutes

## Technology

Different blood cells have different densities. Therefore, when blood is spun in a microhematocrit tube, the cells separate into three distinct layers: the red blood cells, the buffy coat and the plasma.

### 1. The float expands the Buffy Coat

A molded cylindrical float inserted into a capillary tube expands the buffy coat. The specific gravity of the float is such that causes the buffy coat to expand along the length of the float.

### 2. Fluorescence distinguishes cell layers

The interior of the IDEXX VetTube™ is coated with acridine orange, a fluorescent dye that stains a variety of cellular components. These cellular components bind the acridine orange and then fluoresce under blue-violet light. The analyzer's optics examine the tube and float, and measure fluorescence emitted by the cells in the tube. Software algorithms then derive the parameters.

### 3. The fluorescence is represented on the graph

The graph shows the fluorescence using two lines: the thick line shows fluorescence from DNA sources; the thin line shows fluorescence from RNA and lipoprotein sources. Software algorithms then derive the parameters.



## Provided Parameters

<b>Hct</b>	Hematocrit (%)
<b>Hgb</b>	Hemoglobin (g/dl)
<b>MCHC</b>	Mean corpuscular hemoglobin (Hgb/Hctx100)
<b>WBC</b>	Total white blood concentration count (x 10 <sup>3</sup> /dl)
<b>GRANS</b>	Granulocytes (% and absolute values)
<b>NEUT</b>	Neutrophils (absolute value)
<b>EOS</b>	Eosinophils (canine only, absolute value)
<b>L/M</b>	Lymphocytes/monocytes (% and absolute values)
<b>PLT</b>	Platelet count (x 10 <sup>3</sup> /dl)
<b>nRBCs</b>	Nucleated red blood cells
<b>fibrin</b>	Fibrinogen (mg/dl) only noted with the incubator for fibrinogen
<b>RETICs</b>	Reticulocytes (%)

