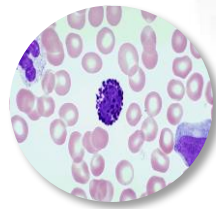
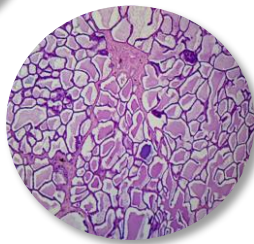
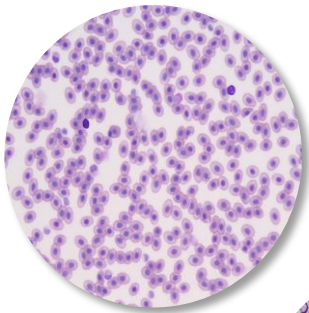


# INTRODUCTION -



**VetScan  
HDmicroscope**

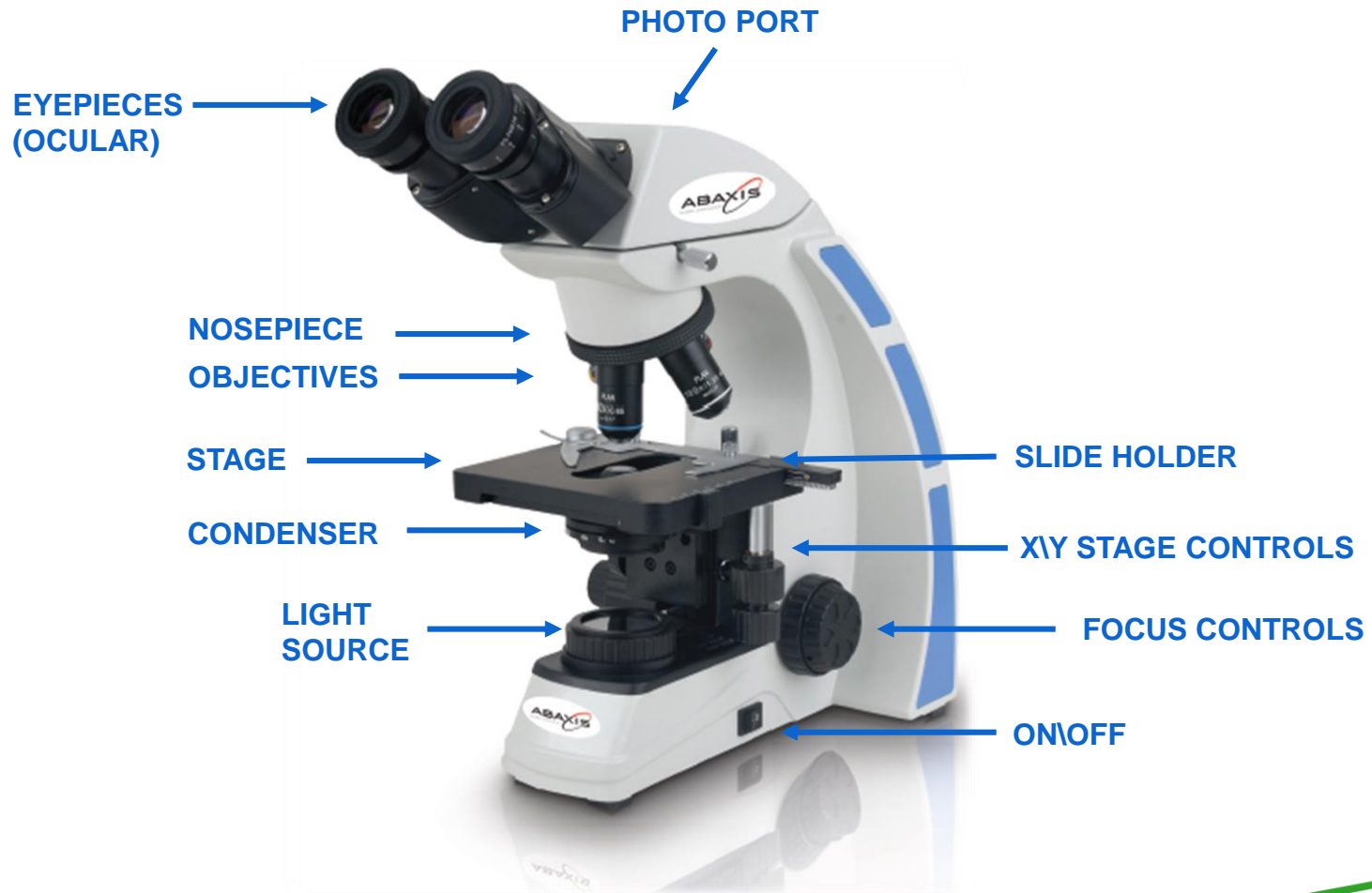




## The microscope is an addition to our HM5 Hematology system in order to perform:

- Blood smears
  - Cytological or Histological work
  - Parasite studies
  - Urine or fecal samples
- 
- Trinocular microscope that offers camera and monitor capabilities
  - Compound Microscope - two optical systems: Eyepiece Lenses and Objective Lenses
  - 4 magnification levels of 4x, 10x, 40x and 100x (Oil)
  - Perfect for vets, students, and researchers

# Components





# Components



- **Eyepiece or Ocular** is what you look through at the top of the microscope.
- **Objective Lenses** are the primary optical lenses on a microscope. They range from 4x-100x.
- **Nosepiece** houses the objectives. The objectives are exposed and are mounted on a rotating turret.
- **Coarse and Fine Focus knobs** are used to focus the microscope.
- **Stage** is where the specimen to be viewed is placed.
- **Illuminator** is the light source for a microscope, typically located in the base of the microscope.
- **Condenser** is used to collect and focus the light from the illuminator on to the specimen. It is located under the stage often in conjunction with an iris diaphragm (not our microscope, it is optional for Köhler illumination (= technique for optimal sample illumination)). Our condenser is pre-centered.



- LED Illumination - 3 watt LED with variable intensity control; LED bulb is rated for over 25,000 hours of continued use
- Infinity PLAN Achromat Objectives 4x, 10x, 40x 100x (oil) for sharp focus from edge to edge
- Built-in Köhler illuminator system, pre-centered. Optional for iris diaphragm/mirror.
- A pointer is standard in one eyepiece for demonstration purpose
- The high-resolution mega pixel color camera provides uncompressed full 1080p 60fps video for seamless live viewing, recording, or streaming



WF10x focusable eyepieces  
with a 20mm field of view



Infinity Plan 4x, 10x, 40xR  
and 100xR oil objectives



Super-bright 3 watt LED  
variable illumination

**PLAN Achromat objectives** offer exceptional flatness producing sharp clear images right up the edge of the field of view (4x 10x 40x 100x oil\*)

*\*Immersion Oil: A special oil used in microscopy with only the 100x objective lens (usually at 1000x total power). A drop is placed upon the cover slip and the objective is lowered until it just touches the drop. Once brought into focus, the oil acts as a bridge between the glass slide and the glass in the lens. This concentrates the light path and increasing the resolution of the image.*

**LED illumination** provides a crisp clear white light across the entire field of view that is superior to halogen illumination. It does not require a color correction filter (a blue filter) to compensate for the yellowish tint given off from halogen light sources. LED also generates far less heat than a halogen lamp, which keeps from specimen degradation and contributes to longer lasting internal electrical parts.





## Add Ons...



### Ready for...

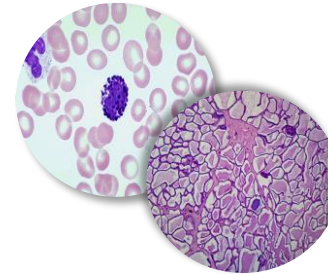
- High Resolution-Mega Pixel Color Camera to easily document patient case
- HD Monitor for live/real time viewing, without being connected to a computer



Add Ons...



## High definition imaging for scientific and industrial applications!



- 1080p HD
- Small pixels (2.2 $\mu$ m) high resolution
- No computer required – 8GB SD card included
- Auto White balance
- User selectable gain, contrast, sharpen filters
- CMOS Technology for proper color rendition
- USB interface for direct PC connection





## Add Ons...



**Includes on board software tools!**

**Built-in Mouse Control Software for Viewing & Recording Without a Computer!**

- Software inside the HD camera and an external HDMI port allows users to connect directly to an HD monitor for live/real time viewing, capturing and saving of the images to an SD card without being connected to a computer.
- Ideal choice for teaching, group presentations or when a computer set-up is simply not an option!

*VetScan*<sup>®</sup> FAMILY

**ABAXIS**  
DIAGNOSTICS

