

TECHNICAL SPECIFICATIONS
OF AI100

Major Components

- Slide or Cartridge holding stage
- XYZ motion stage
- Optics unit with Turret mechanism unit
- Optics digital camera
- Display unit
- Control unit
- Casing

Compatible Optional Analyser Softwares

- Sigtuple Shonit- Blood Analyser
- Sigtuple Shrava- Urine Analyser

Camera

- CMOS sensor
- 14 MegaPixel resolution

Optics system

- Single optical column
- 40X Objective lens
- Optical resolution of approx. 700 lp/mm
- Digital resolution of approx. 6.1 pixels/micron

Illumination Source

White LED

Stage Movement Resolution

- XY axis - 0.25 um
- Z axis - 0.06 um

Travel Speed

- XY axis - 12 mm /sec
- Z axis - 3 mm/ sec

Barcode Reader

External barcode reader

Quality Control

- Sigtuple Performance Qualification test for hardware and image quality
- Built-in assessment test of Sample preparation quality

Archiving of Results and Images

Unlimited archiving in Sigtuple Mandara utilizing either LAN or WiFi

External Interface

USB, Ethernet

Electrical Specification

- Input voltage - 100-240 VAC
- Nominal Power- 60 watt
- AC Frequency - 50/60Hz

Size (W x D x H)

- 485 x 572 x 485 mm /
- 19.1 x 22.52 x 19.1 inches

Weight

49 kg / 108 lbs

Regulatory Approval

CE

	Shonit	Shrava
Analyzer type	Blood morphology analyser	Urine sediment analyser
Parameters	WBC - LYM%, MON%, NEU%, EOS%, BAS%, IG%, Atypical/Blasts%, NRBC% RBC anisocytosis- Normocyte*, Microcyte*, Round Macrocyte*, Ovalo Macrocyte* RBC Poikilocytosis - Elliptocyte*, Ovalocyte*, Target*, Teardrop*, Echinocyte*, Fragmented* Platelets- PLT, PLT*, Giant PLT*, Platelet Clumps* * IHS Grades	RBC*, PUS cells", Micro organisms", Epithelial CellsΨ, CastΨ, CrystalΨ, YeastΨ " Semi-Quantitative Ψ Detected vs Not Detected
Sample preparation	Manual or Automated peripheral blood smears on glass slides with a thin layer of oil	Specially designed single-use cartridge AX200u charged with 7ul of a centrifuged urine sample
Throughput	20 slides per hour	15 cartridges per hour
Slide/Cartridge Loading	Single slide at a time	Single Cartridge at a time
Slide/Cartridge specifications	Length - 74 to 76 mm Width - 24 to 26 mm Thickness - 0.9 to 1.6 mm	Sigtuple issued AX200u cartridges
Oil immersion	A thin layer of oil to be applied manually	NA
Stains	Romanowsky Stains (Lieshman, May-Grünwald- Giemsa, Wright Giemsa, Giemsa)	NA