

Scanning Station

A fully-automated imaging platform comprised of a fully equipped motorized fluorescent microscope, motorized 8 slides stage, digital camera, computer and monitor. System is provided with dedicated imaging and analysis CytoView™ software to capture and detect CRCs captured on CytoQuest™ CR.

Satelite Review Station

One Solo offline workstation allowing review, analysis and report station. Solo workstation is comprised of a computer and monitor. Cases can be reviews, analyzed and reported on Solo workstation using while scanning stations continuously scan slides.

Microscope and Optics

- Fully Automated Commercial Olympus BX-61 Microscope
- 6 position motorized filter wheel
- Motorized - Software controlled z-drive with minimal focus step: < 50nm
- Motorized - Software controlled objectives turret
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 - UPLAN FLN - X10/0.3
 - SUPER APOCHROMATIC x40/0.95
 - Halogen Bright Field light source
- X-Cite Long life fluorescent light source (Metal-Halide optic fiber)

Fluorescent filters

- DAPI
- Orange
- Green
- Red
- Cy5

Camera

- CMOS, digital
- 5 Mega Pixel resolution
- Pixel size: 3.45µm
- 75 fps @ 2448 x 2048 frame rate
- USB 3.0 Interface

Motorized 8 Slides Stage

- Stage insert for 8 slides
- Travel range: max. 225 x 76 mm
- Max. travel speed: max. 120 mm/s (with 2 mm ball screw pitch), max. 240 mm/s (with 4 mm ball screw pitch)
- Repeatability: < 1 µm (bi-directional, measured according to VDI/DGQ 3441)
- Accuracy: +/- 3 µm (measured according to VDI/DGQ 3441)
- Resolution: 0.01 µm (smallest step size)
- Motor: 2-phase stepper motor

Computers (Scanning system and Review workstation)

- DELL T5810, or newer model with the following technical specifications (or equivalent):
 - Processor: Intel® Xeon E5-1603 2.80GHz
 - 16Gb DDR 4 2133Mhz RAM memory
- Nvidia Quadro K620 2GB (DP, DL-DVI-I) (1 DP to SL-DVI adapter) o Operating system: Windows 7 Pro 64Bit
- 1 TB 3.5inch Serial ATA (7.200 Rpm) Hard Drive x 2 (Raid 1) o Optical Drive : 8x Slimline DVD+/-RW Drive

Scanning and Review System Display

- Panel Size: 23 inches (23-inch wide viewable image size)
- Optimal Resolution: Full HD resolution, 1920 x 1080 at 60 Hz
- Contrast Ratio 1000: 1 (typical), Dynamic Contrast Ratio: 2 Million:1 (Max)
- Brightness: 300 cd/m2 (typical)
- Response Time: 8ms (gray to gray)
- Viewing Angle: (178° vertical / 178° horizontal)
- Color Support: Color Gamut (typical): 82% (CIE 1976)1
- Color Depth: 16.7 million colors
- Pixel Pitch: 0.265 mm
- Display Type: Widescreen Flat Panel Display
- Aspect Ratio: Widescreen (16:9)
- Flat Panel Mount Interface: VESA
- Panel Type, Surface: IPS (In-Plane Switching), anti glare with hard coat 3H
- Optimal Resolution: Full HD resolution, 1920 x 1080 at 60 Hz
- Preset Display Area (H x W): 509.2 mm x 286.4mm
- Contrast Ratio: 1000: 1 (typical), Dynamic Contrast Ratio: 2 Million:1 (Max)
- Backlight Technology: LED
- Response Time: 8ms (gray to gray)
- Viewing Angle: (178° vertical / 178° horizontal)
- Display Screen Coating: Antiglare with hard-coating 3H