Inverted Microscope
Manufacturer: Nikon
Model: TS100-F LED Inverted Microscope

Descriptions:
Simple inverted microscope with phase contrast function and CMOS camera for standard viewing of cell morphologies and counting.

Specifications:

a Model: Nikon Eclipse TS100-F LED Inverted Microscope
Consist of :

Main Body
TS100-F LED MV Main Body (100-240V) with built-in transformer, plain stage,

LED illumination and trinocular head

Eyepiece lens:
CFI 10X with diopter adjustment (F.O.V. 22mm) (2 Pcs)
Objectives:
CFI Plan Fluor DL4X F N.A. 0.13, W.D. 16.4 mm, PhL
CFI Plan Achromat DL 10X N.A. 0.25, W.D. 10.5 mm, Ph1
Spring-loaded

Condenser
T1-CELWD ELWD Condenser (O.D.: 75mm)

Phase Contrast Attachment
T1-SNCP Non-Centerable Phase Slider
supplied with Phase Ring PhL and Ph1

b 3.2 Megapixel CMOS Camera
Model: iCAM-DCM300
C-Mount (Optional Connect to 23.2mm & 30mm / 30.5mm diameter ports)
Power Source: From USB 2.0 Port
CD: Driver and Software (ScopePhoto, MiniSee), User manual

Specifications:
PC Interface USB 2.0,support
Sensor 1/2 inch, Enhanced COLOR CMOS , 3.2 M Pixels
Maximum Resolution 2048*1536
Frame Rate 11fps at 2048*1536,50fps at 512*384
Capture Frame 2048*1536,1024*768,640*480,512*384
Dynamic Range 75dB
Sensitivity 1.5V/lux-sec@550nm
Color Max 1.64 million 24Bit Color
Color Mode Color / Mono , R-G-B / B-G-R
Driver Direct Show & Twain
Software Disc: Driver and Image Software "ScopePhoto"
for live image preview, capturing, time lapse and video avi, wmv/asf

Software features:
Annotation and Measurement options
Drawing : Angle, Point, Line, Parallel, Perpendicular, Round Rect, Ellipse, Circle, Annulus
Arc, Text, Polygon
Image Enhancement
Filters: Low/High Pass, Gaussian, Sharpness, Median, Rank etc
Edge Enhance: Sobel, Roberts, Sculpt, Laplace, Variance, Horizontal, Vertical
Morpholigical: Erode, Dilate, Open, Close, Top Hat, Well, Gradient, Distance, Thinning, Watershed
Kernel: Morphological, Convolution
Process: Range, Segmentation, Binary, Emboss, Surface Plot, Line Profile
Diffuse, Granulate, Image Mosaic, Image Fusion
Application Plug-ins : Line Width, Segmentation, Count, Point Measurement, FFT
Export to Image, Export to Excel
File Types: Tiff, bmp, jpeg, png, pcx, tga, sft

Instruction Manuals and Imaging Software: available upon request from laboratory