

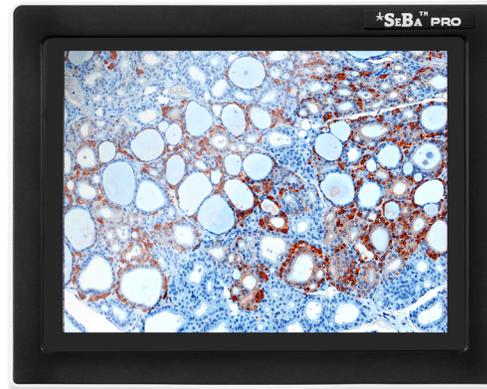
# \*SeBa™ PRO 4

The new SeBa™ Pro 4 upright microscope integrates the best of digital technology with research grade microscope optics. The SeBa™ series embraces the concept of simple, seamless integration of high quality optics, ease-of-use and cutting edge digital technology. The SeBa™ Pro4's modern design, advanced features, and superior quality is ideal for clinical and research markets.

 9.7" Color Touchscreen LCD Display

## Key Features

- The power of SeBaShare
- The 9.7", 2736 x 1824 retina display with high contrast and low glare, and 10 point multi-touch
- 16MP Color Camera
- Easily capture, review, measure, print, and annotate images
- Brightfield, Darkfield, Simple Polarization, & Phase Contrast
- Upload Images to SeBaShare or save to a USB drive



-  Still Images
-  Video Recording
-  SeBaShare
-  Wifi
-  Color Camera

-  USB 3.0 Connectivity
-  Carrying Handle
-  USB Storage

Infinity Corrected 



## SIMPLE, SEAMLESS INTEGRATION

 Capture	 Radius	 Cross Measure
 Save	 Angle	 Cont Line Segment
 Annotate	 Area	 Perpendicular
	 Line Segment	 Point-to-Point

LED Illumination 



## Optical System

- Infinity corrected optical system
- Plan achro, semi-apo fluorite objective lenses available
- Wide range of magnifications: 4x, 10x, 20x, 40x, 60x & 100x
- Anti-reflective coatings on optics
- Sharp images with bright natural color
- Parcentered and parfocal objectives

## STAND

Large, sturdy base designed for the lab environment.

- Rack and pinion focusing mechanism for smooth focus control
- Stable main body design
- Gearless, double-way linear driving X/Y mechanical stage
- Built-in carrying handle for easy transportation of microscope
- Coarse and fine focus adjustment
- Reversed quintuple nosepiece
- Full Koehler illumination with field and iris diaphragm



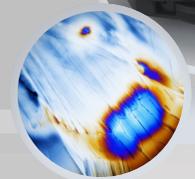
### Darkfield Condenser

- 4-40x darkfield condenser
- Pre-centered annuli



### Phase Contrast

- 10-100x phase
- Turret based selection with built-in alignment tool for quick adjustments of annuli
- Centering telescope

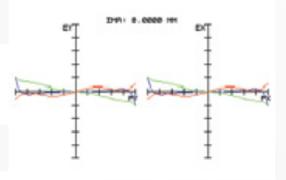
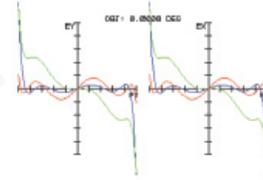
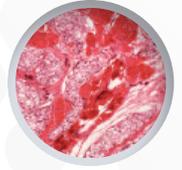


### Cross Polarization

- Polarizer and analyzer
- Simple polarization
- Used to identify presence of crystal structures

## Seba™ Pro4 Optical System

Plan Achromatic vs Semi-Apo Fluorite



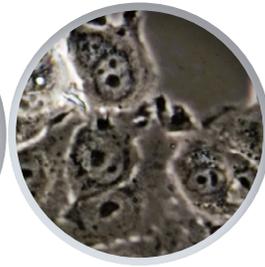
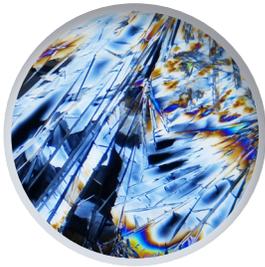
Seba™ Pro4  
Plan Achromatic

Seba™ Pro4  
Semi-apo fluorite

IMPORTANT: Higher N.A. means higher resolution

## Objective Lens

Series	Magnification	N.A.	W.D.	F.N.	Cover glass thickness	Immersion	Spring
Plan Achromatic Series	4x	0.10	11.9	22	0.17	/	/
	10x	0.25	12.1	22	0.17	/	/
	20x	0.45	1.5	22	0.17	/	/
	40x	0.65	0.36	22	0.17	/	yes
	60x	0.85	0.3	22	0.17	/	yes
Plan Achromatic PH Series	100x	1.25	0.18	22	0.17	oil	yes
	10x	0.25	12.1	22	0.17	/	/
	20x	0.45	1.5	22	0.17	/	/
	40x	0.65	.36	22	0.17	/	yes
Semi-Apo Fluorite Series	100x	1.25	0.18	22	0.17	oil	yes
	4x	0.13	18.5	25	0.17	/	/
	10x	0.30	10.6	25	0.17	/	/
	20x	0.50	2.33	25	0.17	/	/
	40x	0.75	0.6	25	0.17	/	/
	100x	1.28	0.21	25	0.17	oil	/



# \*SeBa™ PRO 4

## STANDARD MODELS

SPECIFICATION		MODEL			
Feature	Description	SeBaP4-BF1 Brightfield	SeBaP4-PH1 Phase Contrast	SeBaP4-DF1 Darkfield	SeBaP4-PL1 Simple Polarization
DISPLAY	9.7" Retina Touchscreen Display 2736 x 1824 Pixels	●	●	●	●
CAMERA	16MP CMOS	●	●	●	●
CONNECTIVITY	WiFi	●	●	●	●
	Bluetooth	●	●	●	●
	4 USB Ports	●	●	●	●
SOFTWARE	Capture still images and video	●	●	●	●
	Upload to SeBaShare	●	●	●	●
	Save to USB Drive	●	●	●	●
	Review, measure, print and annotate images	●	●	●	●
OBJECTIVE SET	Infinity Plan Achromatic 4x, 10x, 20x 40x, & 100x oil	●	-	●	●
	Infinity Plan Achromatic Phase 4x, 10x, 20x, 40x, & 100x	-	●	-	-
NOSEPIECE	Reversed Quintuple Nosepiece	●	●	●	●
CONDENSER	N.A. 1.2/0.22 Swing-out Abbe Achromatic Condenser w/ Iris Diaphragm	●	-	-	●
	N.A. 1.25 5-Position Phase Turret Condenser	-	●	-	-
	N.A.1.25 Oil Darkfield Condenser	-	-	●	-
POLARIZATION	Polarizer and Analyzer	-	-	-	●
FOCUS	Low Position Coaxial Coarse and Fine Adjustment, Focus Range: 30mm precision: 0.002mm	●	●	●	●
STAGE	187x166mm X/Y Wire Driven Mechanical Stage, Moving Range: 80x50mm, Precision: 0.1mm	●	●	●	●
ILLUMINATION	Ultra-High Brightness Single LED cold Light Source	●	●	●	●
COLLECTOR SYSTEM	Full Koehler Illumination System	●	●	●	●

# CONFIGURATIONS

*SEBA™ PRO 4	
Part #	Description
SeBaP4-BF1	SeBa4, Brightfield, 9.7" Touchscreen, 16MP Camera, 4x, 10x, 20x, 40x, 100x objectives
SeBaP4-PH1	SeBa4, Phase Contrast, 9.7" Touchscreen, 16MP Camera, 4x, 10x, 20x, 40x, 100x PH objectives
SeBaP4-DF1	SeBa4, Darkfield, 9.7" Touchscreen, 16MP Camera, 4x, 10x, 20x, 40x, 100x objectives
SeBaP4-PL1	SeBa4, Polarization, 9.7" Touchscreen, 16MP Camera, 4x, 10x, 20x, 40x, 100x objectives

