



National Award for
Outstanding Entrepreneurship - 2010



National Award for
Quality Products - 2002

IMAGE CAPTURING DEVICES : MICROSCOPY CAMERAS: **Series 7001**

Description:

Vaiseshika offers a range of cost effective cameras with very good color reproduction and high speed working. Its driver software algorithm makes perfect color reproduction. These devices can be widely used in Industrial inspections, Microscopy observations, Machine vision & Astronomical applications.



7001-3N/5N/10N



Image Capturing Device
Mounted On Microscope

Specification :	7001-3N (3 Megapixels)	7001-5N (5 Megapixels)	7001-10N (10 Megapixels)
Sensor	1/2" Color, CMOS	1/2.5" Color, CMOS	1/2.3" Color, CMOS
Sensor Resolution	2048x1536, 3 Mpix	2592x1944, 5Mpix	3664x2748, 10Mpix
Pixel Size	3.2μm x 3.2μm	2.2μm x 2.2μm	1.67μm x 1.67μm
Sensitivity	>1.0V/lux-Sec 550nm	1.4V/lux-Sec 550nm	0.34V/lux-Sec-55nm
A/D Conversion	10bit	12bit	10bit
S/N Ratio	43 dB	40.5dB	34 dB
Exposure Time	0.057-350.208ms	0.083-378ms	0.206-1236ms
Frame Rate	11fps@2048x1536 29.3fps@1024x768 47.5fps@640x480	6fps@2592x1944 14.7fps@1280x768 20fps@1024x768 22.8fps@640x480	3.3fps@3664x2748 36fps@640x480
Spectral Response	390-750nm	390-750nm	390-700nm
Readout Noise	12 e-	8 e-	7 e-
Scan Mode	Progressive Scan	Progressive Scan	Progressive Scan
Shutter	Electronic	Electronic	Electronic
Optional Interface	C/CS mount	C/CS mount	C/CS mount
Data Interface	USB2.0 (480 Mbit/Sec)	USB2.0 (480 Mbit/Sec)	USB2.0 (480 Mbit/Sec)
Power Supply	DC 5V ± 5%	DC 5V ± 5%	DC 5V ± 5%
Power Consumption	approx. 2.0W	approx. 2.0W	approx. 2.0W
Operating Temp.	0°C - 60°C	0°C - 60°C	0°C - 60°C
Operating System	Windows XP/ 7(32/64 bit)	Windows XP/ 7(32/64 bit)	Windows XP/ 7(32/64 bit)

Description:

Image Analysis software offers intuitive tools that makes it easy to capture, process, measure, analyze and share your images and valuable data.

Vaiseshika offers three different softwares with Stereo Zoom Microscopes, Metallurgical Microscopes & Hardness Testers. All these softwares provide different tools for customizing your work flow.

IMAGE ANALYSIS & MEASUREMENT SOFTWARE FOR STEREO ZOOM MICROSCOPES: **7004-NS-SZM**

Vaiseshika offers Measurement Software with Stereo Zoom, Medical, Polarizing, Biological & other Microscopes having multifaceted capabilities :

MEASUREMENT TOOLS :

- Calibration:** This tool is used for calibration through calibration scale. This is done only once when we use with microscope
- Length:** This tool is used for measuring length. it can measure any given length in the image. It calculates according to your selected scale name, chosen from drop list.
- Curved Length:** We can measure any cells by simply moving the mouse on the cell and marking area through free hand, it will calculate the result.
- Angle:** This tool is used for measuring angles of three selected points.
- Area:** This tool is used for measuring area in square, rectangle, ellipse, polygon, circle and by arrow keys with zoom preview on the screen.
- Radius:** This tool is used for measuring three points radius.
- Perimeter:** This tool is used for measuring perimeter of irregular shape.
- Counting:** This tool is used for automatic counting of cells. It has three intensity ranges for counting manual by selecting area, automatic dark objects and automatic bright objects. It counts in Total Count, Max Dia, Min Dia, Max Area, Min Area, Percentage. It can be searched out with different colors. It shows labels with numbers on every cell. Label color can change. It has five ranges to search. It may count length , width and area. Label size can be changed.

Note: Specification are Subject to change due to our continuous R&D program.

Computer configuration :

1. Minimum Requirement : Intel, Dual Core 2.8GHz or equivalent, 2GB RAM(preferably 4GB), 250 GB HDD & DVD Writer.
2. Operating System : **Windows XP/ 7(32/64 bit)**

