

Samba

Polarization difference camera

- Fast video rate (up to 70 Hz at full resolution)
 - Polarization difference imaging at video rate
 - Polarization degree imaging at video rate
- 400-700 nm spectral bandwidth
- Digital USB 3.0
- Monochrome or Color
- Includes Polarization Imaging software



APPLICATIONS

• ROBOTICS

• DEFENSE

• SECURITY

• COSMETICS

• MEDICAL

• INSPECTION

• QUALITY CONTROL



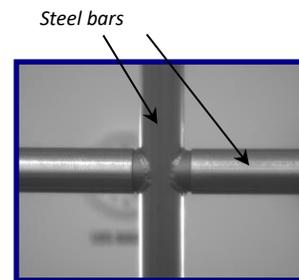
Regular image

SAMBA



Specular light

Diffused light



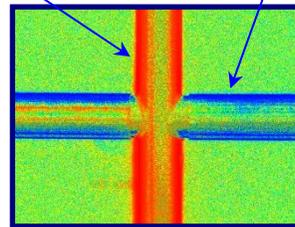
Steel bars

Regular image

SAMBA

Vertical bar (red)

Horizontal bar (blue)

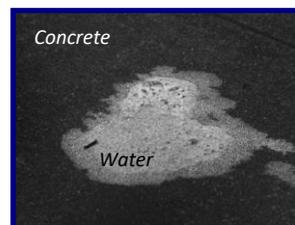


Polarization degree image



Regular image

SAMBA

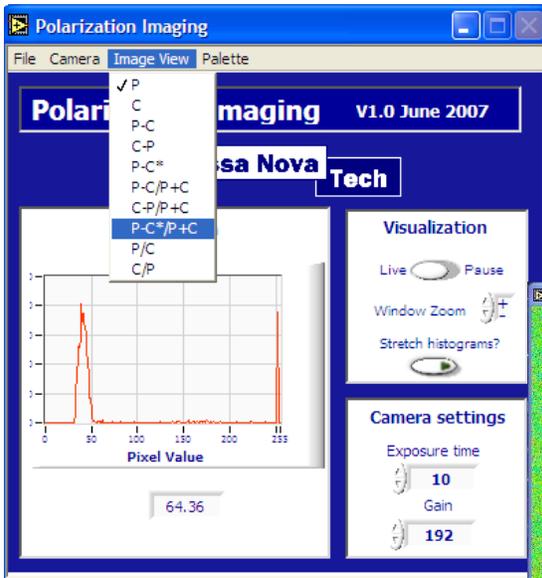


Concrete

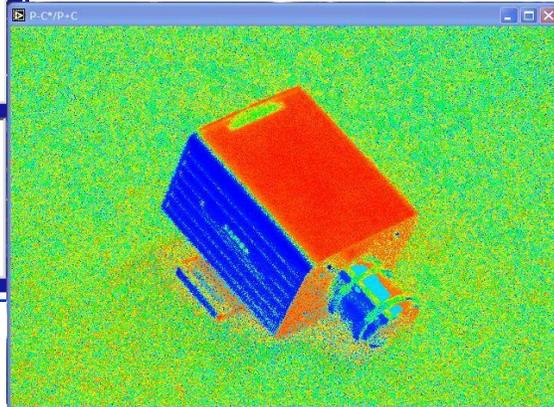
Water

Polarization degree image

POLARIZATION IMAGING SOFTWARE



- Real time polarization imaging
- Many imaging modes available
- Control all camera settings
- Camera calibration
- Save/load polarization images



SPECIFICATIONS

SAMBA models available	Monochrome or Color
Sensor video format	USB 3.0
Resolution (pix)	1024 x 1024, 1600 x 1200, 1920 x 1080, 2500 x 1900
Frame rate	From 3 to 70 fps
Bit depth	8 to 12 bits
CCD type	1/1.8" or 1/3.7"
Spectral bandwidth	400-700 nm
Polarization contrast ratio	> 200
Lens mount	C-mount (other options available)
Camera body size (without lens)	Cylinder: h= 90mm, r = 25mm

*Due to Bossa Nova Vision continuous product improvement policy, specifications are subject to change without notice.
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