

# SAMBA

## Polarization Difference Camera



- Fast video rate (up to 130 Hz)
  - Polarization difference imaging at video rate
  - Polarization degree imaging at video rate
- 400-700 nm spectral bandwidth
- Digital IEEE 1394 (Firewire)
- Monochrome or Color
- Includes Polarization Imaging software



### APPLICATIONS

➤ ROBOTICS

➤ DEFENSE

➤ SECURITY

➤ COSMETICS

➤ MEDICAL

➤ INSPECTION

➤ QUALITY CONTROL



Regular image

SAMBA

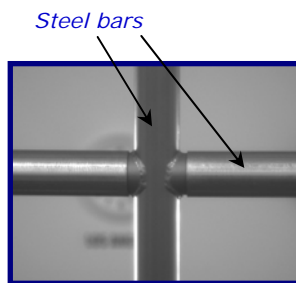


Specular light



Diffused light

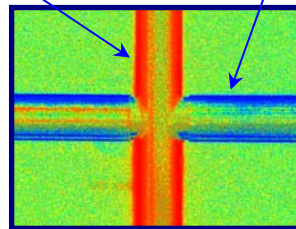
Visual appearance measurement



Steel bars

Regular image

SAMBA



Vertical bar (red)

Horizontal bar (blue)

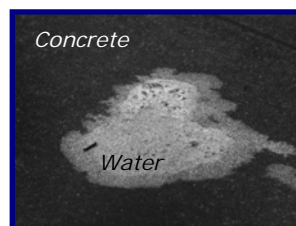
Polarization degree image

Shape detection



Regular image

SAMBA



Concrete

Water

Polarization degree image

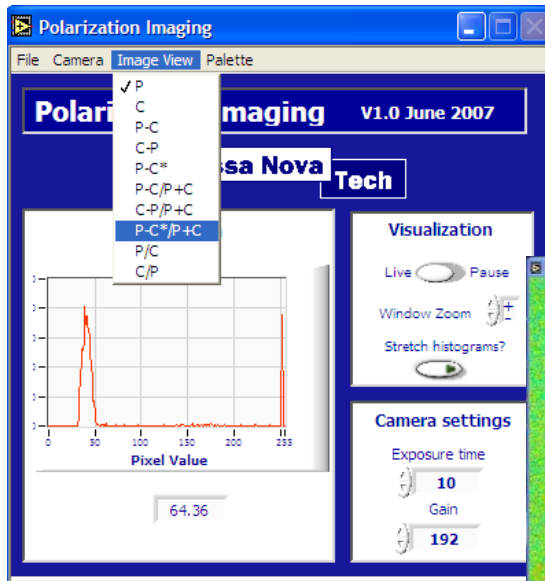
Liquid bodies detection

Bossa Nova Tech

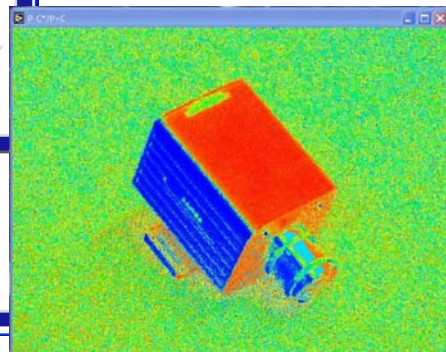
# SAMBA

## Polarization Difference Camera

### 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	Digital IEEE 1394 (Firewire)
Resolution	320 x 240, 640x480, 782x582, 1380 x 1080
Frame rate	From 7.5 to 130 frame per second
Bit depth	8 to 12
CCD type	1/2" or 1/3"
Spectral bandwidth	400-700 nm
Polarization contrast ratio	> 200
Lens mount	C-mount
Size	100 x 80 x 80 mm <sup>3</sup>

**CONTACT US for more information**

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