

**InfoSight®**

"We BARCODE Difficult Stuff"™

## OptiCode® Smart-Camera Tire Reader

Barcodes on tires is an auto industry standard. Tracking tires from manufacturer all the way to sale is very important to the consumer as well. Now there is an easier way to read those barcodes. The OptiCode® Smart-Camera Barcode Reader from InfoSight is a compact industrial reading system designed for high-speed reading and/or long-distance reading of industry standard and custom barcodes.

Major Components of standard OptiCode® Smart Camera System are:

- High speed barcode reading hardware in FPGA (field programmable gate array)
- Microprocessor running standard or application specific software
- RS-170 (monochrome) video output with on-screen alpha-numeric display
- RS-170 video input (for cascading multiple readers for connection to a single monitor)
- One RS-232/RS-485 "Host" communications port (for data output, triggering, and configuration)
- One RS-485 "Local" communications port (for interconnecting multiple readers to work as one, and for I/O expansion)
- 5V I/O (2 inputs / 3 outputs standard) for triggering, read status, and misc.
- EEPROM for storage of reader configuration
- C-Mount Lens Mount (also available for CS-Mount)



Tire being read by the Smart-Camera

### Benefits

- Barcode Reading from a distance up to 15m (50ft)
- Read from Carriers or Cranes
- Track Material from Casting to Stock to Rolling
- Configure as Single Camera or Multi-Camera Installation
- Fixed mount or Hand-held versions available

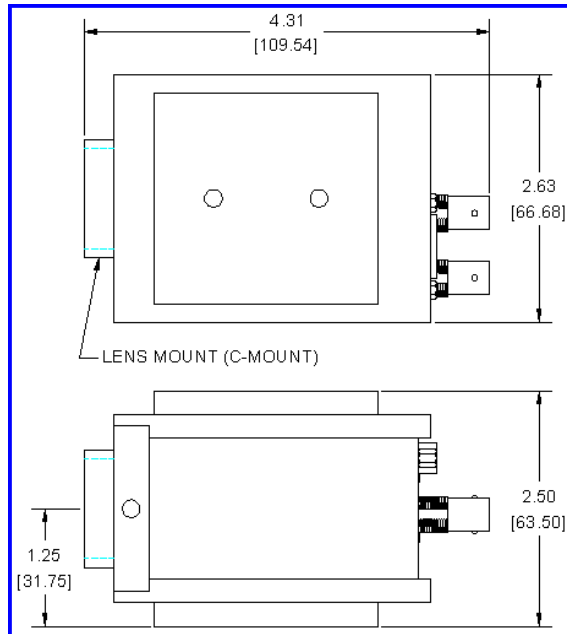
### Symbologies (Linear)

Code 128, Code 39  
Interleaved 2 of 5  
EAN-13 / UPC-A  
Custom Binary Codes (InfoSight)

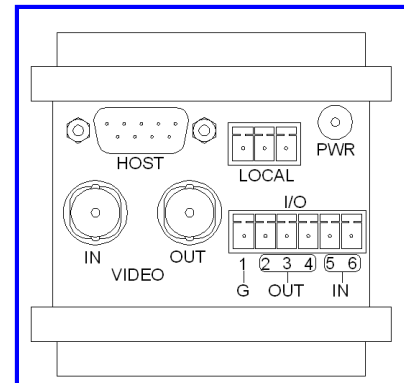


Screen Shot of tire

# OptiCode<sup>®</sup> Smart-Camera Barcode Reader



## CAMERA CONNECTIONS



## SPECIFICATIONS:

<b>Power</b>	5VDC $\pm$ 0.5V, 0.5A
<b>Operating Temperature</b>	0°C to +60°C (32°F to 140°F)
<b>Video In/Out</b>	RS-170 (monochrome)
<b>Host (UART 1) Communications</b>	RS-232 / RS485 (switch selectable) 9600Baud, 8 Data Bits, 1 Stop Bit, No Parity
<b>I/O</b>	Hardwire I/O connections are made via 6-pin connector on the back of the reader
<ul style="list-style-type: none"> <li><b>Inputs: 2</b></li> </ul>	5VDC, active low, internal 10K ohm pull-up resistor Minimum input pulse width: 20ms Standard Inputs: "READ BARCODE", "EDGE TRIGGER"
<ul style="list-style-type: none"> <li><b>Outputs: 3</b></li> </ul>	5VDC, active high Minimum output pulse width: 1/2 second (500ms) Standard Outputs: "GOOD READ", "NO READ", 1 undefined
<b>Image Sensor (Camera based)</b>	Resolution: 1280H x 1024V (pixels)
<b>Lens Mount</b>	C-Mount (CS-Mount available)
<b>Barcode Scan Modes:</b> DIP-switch selectable	<b>Mode 0</b> Horizontal, 30 fps (frames per second) <b>Mode 1</b> 90° omni-directional, 15 fps <b>Mode 2</b> 20° omni-directional, 10 fps <b>Mode 3</b> 10° omni-directional, 7.5 fps <b>Mode 4</b> 5° omni-directional, 3.8 fps <b>Mode 5</b> 2.5° omni-directional, 2.1 fps <b>Mode 6</b> 20° Near horizontal omni-directional, 15 fps <b>Mode 7</b> Reserved for future use

## Optional:

<b>RS-170 Video Monitor</b>	Required for lens adjustment
<b>Lighting</b>	Per application, please consult with InfoSight Corp. (lighting may be supplied by customer)
<b>Environmental Enclosure</b>	Per application, please consult with InfoSight Corp.
<b>Necessary C-Mount Lens</b>	Per application, please consult with InfoSight Corp. (lens may be supplied by customer)