

DALSA SMART CAMERA



Overview

Perfect Blue Vision

DALSA's BOA camera offers End Users, Vision Integrators and OEMs a fully integrated machine vision system in an ultra compact, designed for industry enclosure. Packaged complete with DALSA's iNspec Express software, BOA eliminates the need for programming, whilst providing easy and flexible application setup via a standard web browser interface.

BOA's small form factor and easy mounting capabilities allow it to integrate easily into existing production lines, machinery or moving equipment. To further simplify and reduce implementation costs, BOA utilizes standard M12 cordsets and provides power and strobe timing directly to a variety of associated lighting products. External lighting offers the most flexibility for the wide range of vision applications that BOA is designed for.

With an IP67 rating, BOA is ready for deployment in harsh or washdown factory environments without the need for costly protective enclosures. The CCD sensor is protected by an optional water tight cover that accommodates a variety of focal length lenses.

For End Users and Vision Integrators, BOA is offered complete with the embedded iNspec Express software interface. This easy to use, graphical point and click application, allows users to rapidly prototype and deploy solutions. iNspec offers the tools and flexibility to satisfy a vast and diverse range of inspection requirements. The iNspec software is available with a fully-featured emulator for offline application development and debugging.

For OEMs or specialty equipment providers, BOA is also available as a vision hardware component that can be customized to meet your application need. The product will be offered with an API or an application framework that can greatly accelerate time to market.

Benefits

- Fully integrated smart vision system
- Low and High resolution CCD sensor options
- Ultra small form factor 44x44x44 mm
- Industrial IP67 Housing
- Easy application setup via Laptop or PC
- M4 threaded mounting holes on each surface
- Direct connection to standard vision lights
- Utilizes standard M12 style cordsets
- No software to install

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Specifications

- 256MB Job Memory
- 256MB Program Memory
- Processor: DSP + CPU
- Sensor: 1/3" CCD
- Resolution: 640x480
- Lamp: External
- Inputs: 2 Opto
- Outputs: 2 Opto
- Comm: Ethernet
- Power: 24V @ 0.15A
- Temp: 0-45C
- Protection: IP67
- Mount: 8 M4 threaded
- Compliance: CE, RoHS

Physical Interfacing

Lamp	5 pin M12 style connector for providing power and strobe to external lights
I/O	8 pin M12 style connector provides system power, inputs and outputs
LAN	8 pin M12 style connector provides a fast Ethernet connection for setup and runtime communication if required
Status	3 LED status indicators provide activity and device health feedback
Cables	Standard M12 industrial cordsets offer cost effective cabling solutions.
Mounting	M4 threaded holes on each surface allow the camera to be mounted on any side
Lens	BOA supports a standard C mount lens with an optional protective cover

Application Interfacing

Setup	Solutions are built using the embedded iInspect Express interface. The application is accessed via a web browser from a standard PC or laptop. iInspect offers a comprehensive toolset and directly connects to a variety of Ethernet ready factory devices.			
	Support for Sherlock software is planned.			
Pinouts	Pin	LAN	I/O	Lamp
	1	GND	TRIG	24V
	2	24V	24V	STROBE
	3	24V	IN1	GND
	4	TXD-	OUT1	GND
	5	RXD+	IN CMN	Reserved
	6	TXD+	OUT0	
	7	GND	GND	
	8	RXD-	OUT CMN	