

BOA IDR

IDENTIFICATION & VERIFICATION CAMERA

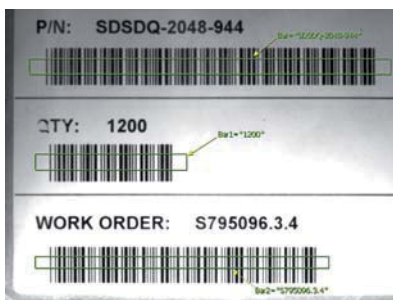
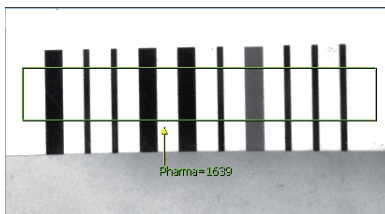


ID READER AND VERIFICATION TOOL

BOA IDR allows manufacturers to combine 1D and 2D tracking with other inspection tasks, such as character reading (OCR) and feature verification, to ensure all product markings are correct when they leave the factory floor.

Our highly integrated solution provides defect detection and reject tracking for high speed applications in Automotive, Consumer, Electronics, Packaging and Pharmaceutical industries.

1D BARCODE VALIDATION:



UPCA, UPCE, EAN8, EAN13, CODE39, CODE93, CODE128, CODABAR, BC412, ITF, POSTNET, PLANET, PHARMACODE, GS1, RSS-14; GRADING TO ISO 15416

ALL-IN-ONE SOLUTION

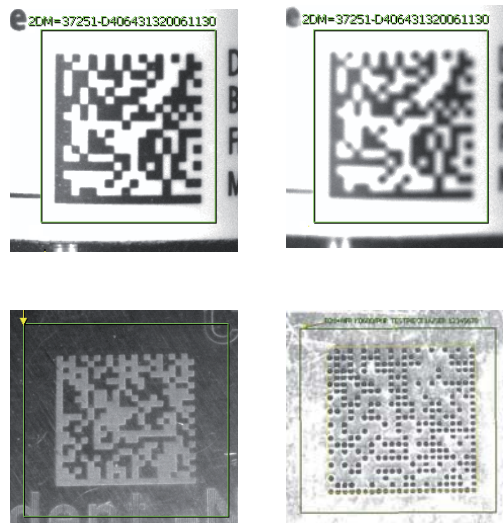
BOA IDR is a complete vision system in a tiny smart camera package. Complete with embedded software and processing, it offers a core suite of tools and capabilities to automatically identify, validate and verify markings or features on parts, products or assemblies.

EASY TO SET UP, READY TO RUN

The preloaded IDR application can be quickly setup and deployed using a standard web browser interface. No software installation is necessary, except for the fully functional emulator that supports offline development and debugging.

The 4-step user interface is designed to guide first time vision adopters and offers advanced features, such as custom scripting, for experienced integrators.

2D MATRIX VALIDATION AND VERIFICATION:



DATA MATRIX, QR CODE, MICRO QR, PDF417
LEARN MODE FOR DIFFICULT TO FIND CODES
GRADING TO AIM DPM, ISO 16022, ISO 15415



TYPICAL APPLICATIONS

- Part validation and verification (1D,2D)
- Part traceability (1D,2D)
- Error proofing (2D, OCR, Pattern)
- Date, lot, product code validation (OCR)
- Printed text verification (OCR, Pattern)
- Label presence and placement (Pattern)
- Label validation (1D,2D,OCR)
- Cap presence and placement (Pattern)
- Pattern verification (Pattern)
- Tamper Proofing (Pattern)
- Robot guidance (Pattern)

PRINTED TEXT VALIDATION AND VERIFICATION:



TRAINABLE BINARY AND GRAYSCALE OCR,
 DARK OR BRIGHT CHARACTERS, FIELDING,
 MULTI-LINE SUPPORT, SLANTED TEXT,
 SYMBOLS

ACCESS CONTROL

The IDR application software includes user administration tools to help customers achieve system validation for 21 CFR Part 11. This includes password access control and data logging to a complementary application running on a networked device.

INTEGRATION

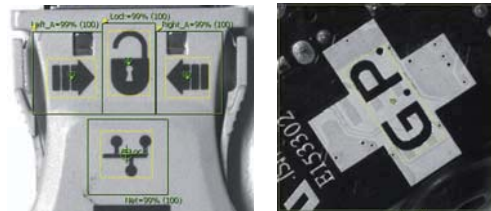
BOA IDR provides standard industrial Ethernet protocols for integrating into the factory network, including support for popular PLCs such as Rockwell Automation and Siemens. BOA ensures that data is moved quickly and accurately with minimal integration effort.

In addition to Ethernet, BOA IDR provides serial RS-232 and discrete I/O connections, as well as expandable I/O options. A dedicated strobe output is further provided for direct light control.

BOA IDR is compatible with industry standard M12 cord sets to minimize hardware integration costs.



PATTERN VALIDATION AND VERIFICATION:



AREA AND EDGE BASED PATTERN RECOGNITION,
 REPORTS SCORE (% MATCH), LOCATION AND ROTATION.
 FINDS FEATURES FOR VERIFICATION OR ALIGNMENT.

BOA IDR FEATURES

ENCLOSURE

- 44mm cube style
- IP67 rated with lens cover
- M12 style factory connectors
- 360° Mounting

RESOLUTION OPTIONS

- CCD Imager
- Interchangeable C mount lens
- 640 x 480
- 1024 x 768
- 1280 x 960

FLEXIBLE INTEGRATION

- Passive power over Ethernet
- Direct external light control
- Expansion I/O option
- Powered network switch option

SOFTWARE

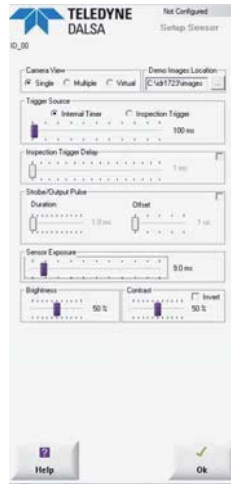
- Web browser access
- User admin control
- Quick application setup
- Multiple Tools
- Scripting
- History logging
- Flexible communication
- Language selection
- Offline emulator

DISPLAY OPTIONS

- BOAView – WinCE HMI application
- iDisplay - PC application– supports up to 8 cameras
- iMonitor – Web server application
- VB – Custom application

SETUP IN 4 EASY STEPS

1. Get Image



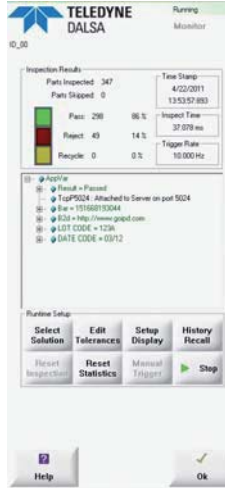
2. Apply Tools



3. Integrate



4. Run



BOA IDR GUI ALLOWS EASY APPLICATION SETUP AND DEVELOPMENT.

