

iNspect

Vision Application Software

Machine Vision Made Simple

iNspect™ is a low-cost embedded vision application software specifically designed to simplify the design and deployment of automated inspection on the factory floor.

iNspect offers a practical tool to new and experienced users, delivering uncompromising functionality that can be readily applied to a wide range of manufacturing tasks. The simple, straightforward interface allows users to quickly configure and deploy accurate and repeatable applications.



QUICK NAVIGATION
 Switch between Camera, Tool, I/O Setup, Run Screen and more with one click

RESULT
 Every solution has PASS or FAIL results built-in. Modify tolerances to fine-tune your application

IMAGE WINDOW
 Use the cursor to add and modify powerful image tools right in the Image Window

TOOLBOX
 Wide range of flexible tools available.

DETAILS
 Provides quick access to Tool outputs, Pass/Fail limits, Timing and visibility

GUI-BASED CONTROLS
 Fine tune inspection parameters

Tool	Match	P1	X	Y	Angle	Min Pass	Perfect	Max Pass	Comments
Match: MS	P1	x				1.153	100%	90	100%
Point: PP	P1	x				0.005			
Caliper: Cap assembly	1					0.067	151.9	141.9	151.9
Caliper: Fill Level	1					0.037	53.1	43.1	53.1
Graphics: text1	1					0			63.1

TYPICAL APPLICATIONS

- Search and match features
- Measure dimensions
- Count blobs and objects
- Color and shade verification
- Robotic Guidance
- Read Barcodes and OCR
- Inspect contours and paths
- Measure springs and threads
- Check for unexpected variations
- Quality Checks
- Packaging Inspection

MACHINE VISION TOOLS

MACHINE VISION TOOLS	
BASIC GEOMETRY	FEATURE RECOGNITION
Point/Edge	Match/Search
Caliper	Count/Blobs
Distance	Verify
Angle	READING
Tip	Barcode 1D/2D
Arc	Barcode DPM
Circle	OCR
Concentric Circles	OCV
Rake	MORE
ADVANCED GEOMETRY	Intensity Statistics
Contour	Preprocessors
Bead	Graphics Overlays
Thread	Color Meter
Spring	Focus Meter

TECHNICAL SPECIFICATIONS

iInspect for Smart Cameras		iInspect for Vision Appliances (VA)	
GENERAL			
Use	Runs Embedded on Camera	Runs on PC	
Compatible Cameras	BOA, BOA2, BOA3, BOA Spot	GigE GenICam Cameras, Genie Nano, FLIR Blackfly, Calibir LWIR	
Multi-Camera Support	No	Up to 8	
License	Included with Smart Camera	PC License	
SYSTEM REQUIREMENTS			
Minimum Processor	Intel Core i3 or Atom x7		
RAM	4 GB		
Disk Space	100 MB		
Operating System	Windows 10, 11 32-bit or 64-bit		
UTILITIES INCLUDED			
Nexus	Connection, file manager, and update utility for handling BOA Cameras		
iDiscover	Camera network discovery and IP address resolution tool		
BOA Emulator	Offline emulator for developing applications using image files		
Report Generator	Creates documentation of parameters and settings		
iDisplay	Operator interface software for viewing single or multiple cameras during runtime		
AUTOMATION/PLC COMMUNICATION PROTOCOLS			
Control Logix	Profinet	Melsec	GE Fanuc SNP, SRTTP
Ethernet-IP	Modbus	Motoman MRC	CC-Link SLMP
			Omron
			RS232
			OPC UA
			TCP/IP
USER ADMIN			
Create custom iInspect admin or operator accounts and passwords for managing solutions			
CAMERA SETUP PARAMETERS			
Trigger Source	Strobe/Output Pulse	World Calibration	
Internal Timer	Image Brightness	Lens Correction	
Trigger Delay	Focus Measurement	Color Calibration	

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