

# VA50

## Line Scan Vision Appliance

### PRODUCT DATASHEET

### Overview

The VA50 provides end users and system integrators with a high performance, compact machine vision solution for line scan applications. This product is designed for tasks such as cylindrical unwrapping, large format imaging of moving surfaces or continuous web inspection.

The VA50 provides multiple camera inputs that allow you to image and inspect from two different cameras simultaneously. It is supported by various cameras of different resolutions that typically range from 1024 to 8096 pixels. The VA50 provides the timing Inputs and Outputs for synchronizing the cameras to the speed of the moving part or surface. The 24V compatible I/O is broken out to removable screw terminal connectors or opto-isolation modules.

The VA50 is equipped with standard serial and Ethernet interfaces for communicating with complementary devices or connecting into the factory network. User input is typically through keyboard, mouse and monitor attached to the unit, but is also supported through the Ethernet connection to a common operator interface. All physical connections are located on the VA50 rear panel, with status lights available on the front.

Application setup software is preinstalled and ready to run, thus eliminating installation and revision control problems. For maximum flexibility, the VA50 is supported by our Sherlock inspection software, a powerful and proven tool that has been used in thousands of installations worldwide. Sherlock's configurable interface allows you to quickly prototype, benchmark and deploy inspection solutions. In addition to its extensive library of preprocessors and machine vision algorithms, Sherlock supports inline scripting, user custom tools and a customizable operator interface.

Flexibility, performance, multiple cameras... the VA50 vision appliance is the right choice for your line scan applications.

### Key Features:

- Multiple camera inspections
- No software to install
- Powerful embedded processor ensures fast inspection times
- Rugged system for online or offline inspection
- Choice of camera type and resolution
- Integrates well into factory environments
- Universal solution for end-users, integrators and machine builders



The VA50 is available in two versions, differentiated by performance. The VA51 has 3X processing performance of the VA50.

## FEATURES

FEATURES		VA50	VA51
Version		Standard	Performance
Memory	Program Storage	256MB 40GB HD	512MB 40GB HD
Acquisition	Cameras: # inputs Format Resolution	CameraLink Interface - base mode 2 Asynchronous Line scan Variable: Typically 1024 - 8096 pixels (Consult factory for other options)	
Communication	USB Ethernet Serial Visual	2 x USB 1.1 10/100 Mbps  1 x RS232 7 status indicators	2 x USB 2.0 10/100/1000 Mbps
Display	Local	Programmable resolution (1024x768 standard)	
I/O	Inputs Outputs	8 Single-ended 24V, Opto-isolated triggers 8 NPN/PNP	
Software	Version  Application	Standard (-04 order code) Sherlock	Standard (-04 order code) Sherlock
Power	Voltage	24 VDC +/- 5% @ 2.5A	
Environment	Operating Temp Storage Temp Relative Humidity	0-40°C  -10-85°C 5-90% (non-condensing)	0-50°C
Mechanical	Material Dimensions Weight	Aluminum 7.6H x 20W x 21.5L cm 5.6 lbs, 2.5Kg	
Certification		CE	