

IPD VA15

Single Camera Vision Appliance

PRODUCT DATASHEET

Overview

The VA15 defines a new standard for entry level machine vision solutions. This low-cost, full-featured product, equipped with CCD sensor, combines performance, ease-of-use and flexible integration capabilities to tackle a broad range of industrial applications.

Unlike its traditional smart camera counterparts, the VA15 incorporates the “smarts” inside the camera controller, as opposed to the camera head. This has the dual benefit of easier integration, since it can be positioned in a chassis alongside other automation controllers, and smaller camera size, thus making it suitable for tight-fit applications.

Interfacing the VA15 is a snap. The unit is fully equipped with industrial grade Inputs and Outputs that are wired using removable screw terminal connectors. A visible LED light is coupled to each connection that reflects the active state of the signal. The I/O, together with all external interfaces, is conveniently accessible on the front of the unit facing the user.

Easy-to-use application software is preinstalled and ready to run, thus eliminating installation and revision control problems. The unit is accessed and setup through a standard Ethernet link to a laptop or PC on the local network. Once configured, the unit runs autonomously and inspections can be monitored remotely from any computer with access privileges. The VA15 inspection toolset is well equipped and suitable for a range of quality control applications, including assembly verification, part identification, measurements, flaw detection and object location.

Less integration, quick software setup, low-cost... with the VA15 Vision Appliance, integrating machine vision just got a whole lot easier!

Key Features:

- Compact DIN mountable device
- Single camera inspections
- Suitable for tight-fit camera applications
- No software to install
- Powerful embedded processor ensures fast inspection times
- Online or offline inspection
- Quick connect/disconnect wiring
- Easily integrates into factory environments
- Universal solution for end-users, integrators and machine builders



Learn more about the VA15 and our other low-cost Vision Appliances on the back side of this datasheet.

Low-Cost Vision Appliance Selector Chart

Adept Electronic Solutions
www.adept.net.au

	VA15	VA20	VA21	VA30	VA31
Program Memory (MB)	128	256	256	512	512
Storage Memory	64 MB	128 MB	2 GB	128 MB	4 GB
Network (Mbps)	10/100/1000	10/100/1000	10/100/1000	10/100/1000	10/100/1000
Serial (RS232)	1	1	1	1	1
USB	2 (1.1)	2 (1.1)	2 (1.1)	2 (2.0)	2 (2.0)
Application Setup	Remote	Remote	Local/Remote	Remote	Local/Remote
Application Software	iInspect Lite	iInspect	iInspect, Sherlock 7	iInspect	iInspect, Sherlock 7
Tools:					
Preprocessing	No	Yes	Yes	Yes	Yes
Positioning	Yes	Yes	Yes	Yes	Yes
Measurements	Yes	Yes	Yes	Yes	Yes
Verification	Yes	Yes	Yes	Yes	Yes
Flaw Detection	Yes	Yes	Yes	Yes	Yes
1D/2D Readers	Yes	Yes	Yes	Yes	Yes
OCR	No	Yes	Yes	Yes	Yes
App. Specific Script	No	Yes	Yes	Yes	Yes
	No	No	Yes	No	Yes
Max # Sensors	1	2	2	2	2
Sensor Interface	Analog	Analog	Analog	Analog	Analog
Sensor Format	Area	Area	Area	Area	Area
Sensor Resolution (min)	640x480	640x480	640x480	640x480	640x480
Sensor Resolution (max)	640x480	1024x768	1024x768	1375x1135	1375x1135
Sensor Speed (max)	60f/s	60f/s	60f/s	60f/s	60f/s
I/O Access	Direct	Direct	Direct	Direct	Direct
I/O Type	24V Opto	24V Opto	24V Opto	24V Opto	24V Opto
# Inputs	10 configurable	10 configurable	10 configurable	10 configurable	10 configurable
# Outputs	8 configurable	8 configurable	8 configurable	8 configurable	8 configurable
LED Indicators	26	26	26	26	26
Power	24V @ 1A	24V @ 1A	24V @ 1A	24V @ 1A	24V @ 1A
Dimensions (cm)	9.5x16x5	9.5x16x5	9.5x16x5	9.5x16x5	9.5x16x5
Approvals	CE, RoHS	CE, RoHS	CE, RoHS	CE, RoHS	CE, RoHS

To learn more about the VA15, see our website at www.goipd.com/appliances



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