

Configuration as easy as 1, 2, 3

Most vision sensors on the market are complicated to use and may even require training. Datasensor vision sensors are simple to configure in just three steps saving customers time, money and frustration.



Part Numbers

Part Number	Description	List Price
SVS1		
SVS1-08-DC-K	Smart vision sensor, 8mm lens, 3.5" color LCD configurator, and cables	\$1,835.00
SVS1-06-DC-S	Smart vision sensor, 6mm lens, without configurator	\$1,175.00
SVS1-08-DC-S	Smart vision sensor, 8mm lens, without configurator	\$1,175.00
SVS1-12-DC-S	Smart vision sensor, 12mm lens, without configurator	\$1,175.00
SVS2*		
SVS2-06-DE-OBJ	Smart vision sensor, 6mm lens	\$1,300.00
SVS2-08-DE-OBJ	Smart vision sensor, 8mm lens	\$1,300.00
SVS2-12-DE-OBJ	Smart vision sensor, 12mm lens	\$1,300.00
SVS2-16-DE-OBJ	Smart vision sensor, 16mm lens	\$1,300.00
SVS2-06-DE-AOR	Smart vision sensor, 6mm lens, advanced object recognition	\$1,650.00
SVS2-08-DE-AOR	Smart vision sensor, 8mm lens, advanced object recognition	\$1,650.00
SVS2-12-DE-AOR	Smart vision sensor, 12mm lens, advanced object recognition	\$1,650.00

Part Number	Description	List Price
SVS2-16-DE-AOR	Smart vision sensor, 16mm lens, advanced object recognition	\$1,650.00
Accessories		
CS-A1-06-B-03	M12 8-pole 3m unshielded cable	\$34.00
CS-A1-06-B-05	M12 8-pole 5m unshielded cable	\$40.00
CS-A1-06-B-10	M12 8-pole 10m unshielded cable	\$55.40
SVS-ST-5068	L-shaped fixing bracket for 90° mounting	\$20.00
SVS-ST-5066	U-shaped fixing bracket for angle adjustment	\$20.00
SVS-MK-01	Mounting kit	\$50.00
SVS1-VSC	SVS1 3.5" color LCD configurator	\$726.00
SVS-CV-VSC-02	2m cable for Configurator and SVS1	\$46.00
SVS-CV-VSC-04	4m cable for Configurator and SVS1	\$53.00
SVS-CV-RJ45C-03	SVS2 3m crossed Ethernet cable	\$37.00
SVS-CV-RJ45D-03	SVS2 3m straight Ethernet cable	\$37.00

Note: Datasensor has a complete range of industrial lighting solutions available for machine vision applications, including industrial illuminators. For more information, go to www.idec-ds.com.

*Configuration software is included with each SVS2 unit. Software can also be downloaded for free at www.IDEC-DS.com.



To see our complete line of sensors, download the IDEC-Datasensor short form catalog available online at:

www.IDEC-DS.com



Smart Vision Sensors

A quick solution for packaging lines, food and beverage industries, automotive and electronics plants, the SVS series combines sophisticated technology with an extremely simple configuration. Unlike other brands, SVS vision sensors don't require hours of training to use either. These sensors represent an easy-to-use solution for all vision control applications.

With a fast frame rate of 60 fps (60 images per second), Ethernet communication, a teach button, 640 x 480 pixel resolution and a total of 9 inspection tools, Datasensor SVS sensors are the best value for feature-packed smart vision sensors on the market. Inspection tools available include:

- Pattern match
- Positioning verification
- Edge count
- Contrast comparison
- NEW Unique 360° pattern match
- Contour match
- Width comparison
- Brightness check
- Character verification (OCV)

These sensors provide a low-cost solution to machine vision and accurate, reliable and unparalleled inspection. Ultra-compact, powerful and easy-to-use, these smart vision sensors work for a variety of applications.

The packaging industry uses vision sensors for everything from inspecting tamper-evident safety seals to checking bottle caps and labels. The automotive industry is also one of the main industries using vision sensors for assembly verification, inspection, and identification. For inspection and verification of components, as well as date and lot code checking, the pharmaceutical and medical industries also utilize vision sensors. As for semiconductor industries, vision sensors are used for wafer inspection or identification.

Datasensor SVS series Smart Vision Sensors are available in two lines:

- SVS1 models guarantee the quickest and easiest setup via hand-held configurator
- SVS2 models can be connected to a PC and offer multiple controls on the same inspection setup

SVS1

The SVS1 series is the easiest solution for machine vision applications. It's suitable for applications that require only one control inspection.



The setup is quick and intuitive using the 3.5" color Display Configurator. The Configurator can provide real time monitoring of the images, but is not required during the functioning of the sensor, so it can be disconnected and used to setup multiple sensors. SVS1 is able to carry out 7 tools of inspection. Up to 8 different inspections can be stored in SVS1.

- 7 Inspection Tools
- High image quality 640 x 480 pixels
- Memorization of 8 inspections
- Capture up to 60 fps (frame per second)
- Compact size
- Quick and easy setup via 3.5" LCD Configurator
- Up to 600mm operating distance, selectable field of views

SVS2









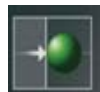
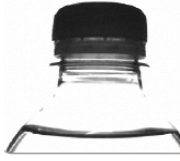
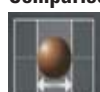
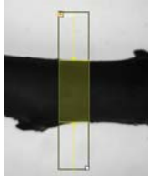

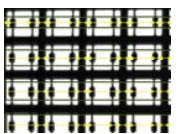
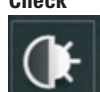



Datasensor SVS2 is a completely embedded device. The optic, the red LED illuminator and the electronics are included in an extremely compact housing. The sensor is configured via PC through Ethernet communication. It also allows users to remotely monitor the sensors throughout the local area network (LAN). Configuration software is included in the product and has been developed to lead the customer through the configuration process step-by-step. The SVS2 is extremely powerful storing up to 20 inspections, and suitable for multiple controls in a single inspection. In fact, up to 32 controls can be analyzed in a single pass.



SVS2 is the only vision sensor on the market able to offer an image processing tool that can recognize objects on the field of view independently from any rotation. The 360° Geometric Pattern Match has been especially developed to store the actual characteristics of the object that will be tracked and resolve them during operation with total immunity to position and orientation changes.

- 8 Inspection Tools
- High image quality 640 x 480 pixels
- Memorization of 20 inspections
- Up to 32 controls per inspection
- Capture up to 60 fps (frame per second)
- Ethernet connectivity
- Advanced Object Recognition (AOR) models with unique 360° Geometric Pattern Match
- Up to 600mm operating distance and selectable lenses: 6mm, 8mm, 12mm, 16mm
- Logic gates combine inspection tool results before output

Evaluation Tools

Inspection Tool	Description	Example
 Pattern Match	Compare pattern of reference and targeted object. Applications Packaging: Symbol verification Assembling: Product orientation Post Office: Stamp verification	
 Contour Match	Shape control. Applications Metal working: Integrity control Food: Coffee-filter shape control	
 Character Verification (OCV)	Compare text characters. Applications Packaging: Production lot control Food: Expiration date control	
 360° Pattern Matching	Compare pattern of reference and targeted object when object is at any angle. Applications Packaging: Symbol verification Assembling: Product orientation Post Office: Stamp verification	
 Position Verification	Checks the object position in the image. Applications Bottling: Liquid level control Food: Label position control	
 Width Comparison	Compares distance between two edges in an image. Applications Assembling: Plastic part control Wood industry: Branch thickness	
 Edge Count	Counts the edges along the line. Applications Electronics: Component counting Pharmaceutical: Blister stack counting	
 Brightness Check	Checks for difference in brightness between reference and targeted area. Applications Bottling: Cap presence control Packaging: Object counting	
 Contrast Comparison	Detects present or absence of contrast. Applications Food: Date and lot presence control Metal working: Laser marking control	

Applications



Object Counting

Description: Control the number of bottles present in the package.
Tool: Brightness, one per bottle or Edge Count.



Product Orientation

Description: Check product orientation based on the cap position.
Tool: Position or Edge Count.



Filling Control

Description: Determine fill level according to the distance between the liquid level and the cap.
Tool: Position.



Label Positioning

Description: Label positioning control based on the distance between the label and the border of the cap.
Tool: Pattern Match and Position.



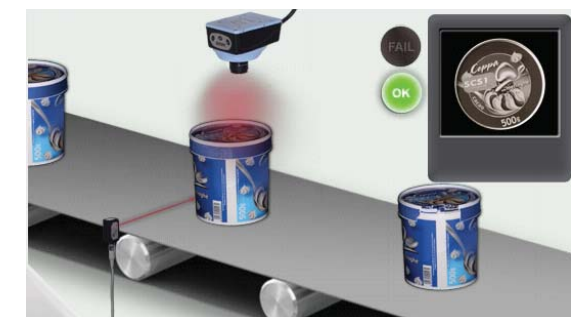
Label Control

Description: Expiration date verification and barcode printing.
Tool: Position locator and Pattern Match or OCV.



Overprinting Verification

Description: Check Datamatrix presence on PCB.
Tool: Pattern Match or Brightness.



Shape Control

Description: Cap integrity verification.
Tool: Contour match.



Label Control

Description: Verification of label location.
Tool: 360° Pattern Match locator.