

## KAMERA-ANTURI DATAVS2 AOR

DATAVS2-06DEAOR

Kamera-anturi, 6mm, AOR

- 360° hahmontunnistus
- 8 eri tunnistustyökalua
- 20 eri tarkistusta
- 4 ulostuloa



### TUOTEKUVAUS

Datalogicin DATAVS2 kamera-anturilla voidaan toteuttaa helposti ja nopeasti erilaisia konenäkösovellutuksia ja hahmontunnistuksia. DATAVS2 on itsenäinen kokonaisuus jossa integroituna punainen LED-valo, optiikka sekä elektroniikka. Anturi voidaan konfiguroida PC:llä Ethernet yhteyden kautta Datalogicin DataVS2 Graphic User Interface - ohjelmointi ohjelmalla tai erillisen VSM-näytön avulla. Anturin mukana tulee konfigurointiohjelma, jonka avulla asetusten määrittäminen etenee askeleittain.

DATAVS2 anturista on tarjolla neljä eri ohjelmistoversiota:

OBJ (Object Recognition) - sisältää 7 yleistä tunnistustyökalua joilla voidaan ratkaista suurin osa sovellutuksista.

AOR (Advanced Object Recognition) - sisältää OBJ-mallista löytyvien työkalujen lisäksi 360° hahmontunnistuksen, logiikkatyökalut ja tiedonsiirron Ethernetiin.

ID (Identification ID) - sisältää viivakoodin ja datamatriisin luennan sekä merkkien tarkastus.

PRO (Professional) - sisältää AOR- ja ID-mallien tunnistustyökalut.

### TEKNISET TIEDOT

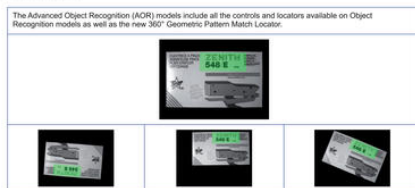
|                          |                                                           |
|--------------------------|-----------------------------------------------------------|
| IP-luokka                | IP50                                                      |
| Jännitetoleranssi        | 10%                                                       |
| Kotelon materiaali       | Alumiini                                                  |
| Käyttöliittymä/Rajapinta | Ethernet 10/100 Mbs (4-napainen M12 -liitin)              |
| Liitäntätyyppi           | D-koodattu M12-liitin, 4-napainen, M12-liitin, 8-napainen |
| Linssin materiaali       | ABS-muovi                                                 |
| Lukunopeus               | 60                                                        |
| Max. jännite DC          | 24 V                                                      |
| Max. käyttölämpötila     | 50 °C                                                     |
| Max. ulostulovirta       | 0,1 A                                                     |
| Max. virrankulutus       | 0,1 A                                                     |

|                      |                        |
|----------------------|------------------------|
| Min. jännite DC      | 24 V                   |
| Min. käyttölämpötila | -10 °C                 |
| Optiikka             | 6 mm integroitu linssi |
| Resoluutio           | 640x480 (VGA)          |
| Ulostulo             | 4xPNP                  |

The Advanced Object Recognition (AOR) models integrate new important functionalities, including:

- 360° Pattern Match Locator**  
Object detection independent from rotations.
- Logical tools**  
Possibility to combine the results of the single tools through boolean operator (AND, OR, NOT, etc.).
- Advanced Ethernet**  
Current inspection results available also on Ethernet communication.
- Speed-up**  
High execution speed thanks to the management of reduced resolution and TURBO mode.

### 360° Pattern match



**Step 1: Image Setup**

The first step consists in connecting the sensor and configuring the image quality parameters. When the desired results are obtained, the user can memorize the image that will be used as a template during sensor functioning.

**Step 2: Teach**

The second step establishes the acceptance criteria to distinguish objects from wastes. One or more controls can be selected according to the task to carry-out.

**Step 3: Run**

The third step configures the sensor digital outputs, simulates sensor functioning on the PC to verify the controls chosen and activates the operating phase on the sensor using the PC only to control the diagnostics.

**M12 4-pole Ethernet**

PIN 1 = white/orange = RX+  
PIN 2 = white/green = TX+  
PIN 3 = orange = RX-  
PIN 4 = green = TX-

**M12 8-pole (power supply and I/O)**

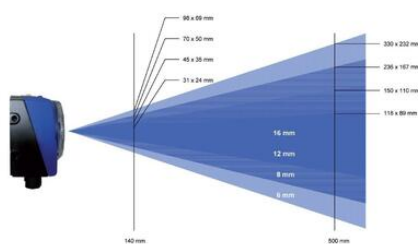
PIN 1 = white = digital input 1  
PIN 2 = brown = 24 VDC  
PIN 3 = green = STROBE for external illuminator  
PIN 4 = yellow = output 1  
PIN 5 = grey = output 2  
PIN 6 = pink = output 3  
PIN 7 = blue = GND  
PIN 8 = red = external trigger

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### 360° Pattern match

The Advanced Object Recognition (AOR) models include all the controls and locators available on Object Recognition models as well as the new 360° Geometric Pattern Match Locator.





- Step 1: Image Setup**
- The first step consists in connecting the sensor and configuring the image quality parameters. When the desired results are obtained, the user can memorize the image that will be used as a template during sensor functioning.
- Step 2: Teach**
- The second step establishes the acceptance criteria to distinguish objects from wastes. One or more controls can be selected according to the task to carry out.
- Step 3: Run**
- The third step configures the sensor digital outputs, simulates sensor functioning on the PC to verify the controls chosen and activates the operating phase on the sensor using the IPC only to control the diagnostics.

