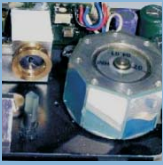


# DS4600A

## ACR Version

## High Performance Compact Laser Scanner



## General Description

The new Datalogic **DS4600A-3XXX** is an industrial fixed positioned bar code reader designed for the manufacturing industry.

The **DS4600A-3XXX** features an ACR™ (Advanced Code Reconstruction) decoder. ACR™ technology based on a powerful DSP which performs real time bar code image reconstruction and decoding, enabling non-oriented labels placed in various positions on objects to be read. The great benefit provided by ACR™ technology on the **DS4600A-3XXX** is that the barcode positioning tolerance is increased and it is easier to position the scanner.

As a result of new optics, based on a diffractive lens, and an improved focusing system, the **DS4600A-3XXX** provides great reading performance in challenging situations in which thermal transfer or low contrast barcodes are used. One of the scanner versions with a new optic platform makes it possible to read high resolution barcodes (0.2mm/8 mils).

The new Datalogic **DS4600A-3XXX** is available in three versions: the high resolution model (DS4600A-3200), the medium range model (DS4600A-3000) and the long range version (DS4600A-3100).

The reading characteristics, ease of use and flexibility of the **DS4600A-3XXX** make this scanner suitable for a wide range of applications in the manufacturing industry, including automated warehousing, shop floor, data collection and WIP tracking, providing ideal benefits for the customer.

With the **DS4600A-3XXX** state-of-the-art technology, Datalogic strengthens its leadership in the design, manufacture and distribution of bar code reading systems.

## Features

- > Reading distance up to 1,000 mm
- > ACR™ code reconstruction
- > Real time decoding with new DSP
- > Good reading performances on very low contrast bar codes
- > Oscillating mirror available
- > Two software programmable outputs
- > WinHost™ programming

## Applications

- > Automated warehousing
  - Conveyor sorting
  - Label verification
  - Picking systems
- > Automated shop floor
  - Items and parts tracking
  - Packaging
  - Compliance

## Specifications

### ELECTRICAL CHARACTERISTICS

POWER SUPPLY 10 to 30 Vdc  
 POWER CONSUMPTION 6 W max.

### MECHANICAL CHARACTERISTICS

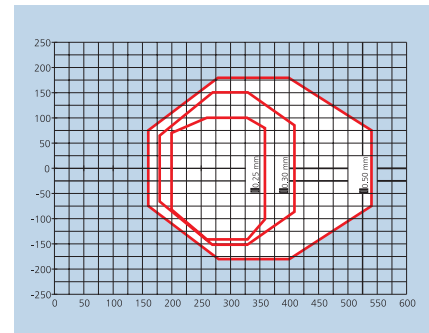
DIMENSIONS 101 x 83.5 x 42 mm (3.98 x 3.29 x 1.65 in.)  
 WEIGHT 615 g (21.7 oz.) approx.  
 CASE MATERIAL Cast aluminium

### PERFORMANCE

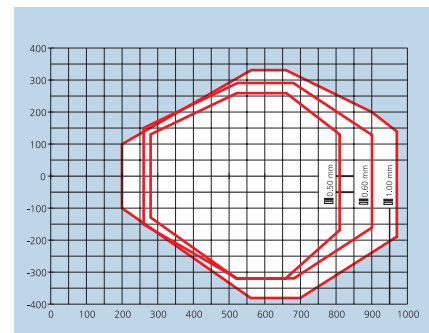
LIGHT SOURCE Visible Laser Diode (658 nm)  
 MAX. RESOLUTION 0.2 mm (8 mils )  
 SCAN RATE 800 scan/s  
 MAX. READING DISTANCE see diagrams  
 MAX. DEPTH OF FIELD see diagrams  
 MAX. READING FIELD see diagrams  
 READABLE CODES Most popular standards incl. 2/5 family, Code 39, Code 93, Code 128, EAN/UPC, EAN 128  
 MULTILABEL READING Up to 6 different codes in the same presence sensor phase  
 SERIAL INTERFACES One RS232, one SW programmable RS232 / RS485 Multidrop  
 BAUD RATE Up to 115.2 Kbauds (both serial interfaces)  
 INPUT SIGNAL 'Presence sensor' plus 2 programmable inputs (Optocoupled NPN/PNP transistor)  
 OUTPUT SIGNALS 2 fully programmable digital outputs (Optocoupled NPN transistor open collector and emitter)  
 PROGRAMMING METHOD Through a serial interface (Winhost™ configuration program)  
 OPERATING MODES 'On line', 'Serial On line', 'Automatic', 'Test'  
 LED INDICATORS 'Ready', 'Reading phase active', 'Good read', 'Data transmit'  
 LASER CLASSIFICATION IEC 825 Class 2  
 LASER CONTROL Security system to turn laser Off in case of motor slow down or failure

**ENVIRONMENT**  
 OPERATING TEMPERATURE 0 to 40 °C (32 to 104 °F)  
 STORAGE TEMPERATURE -20 to 70 °C (-4 to 158 °F)  
 HUMIDITY 90% non condensing  
 VIBRATION RESISTANCE IEC 68-2-6 test FC 1.5 mm; 10 to 55 Hz; 2 hours on each axis  
 SHOCK RESISTANCE IEC 68-2-27 test EA 30 G; 11 ms; 3 shocks on each axis  
 PROTECTION CLASS IP65

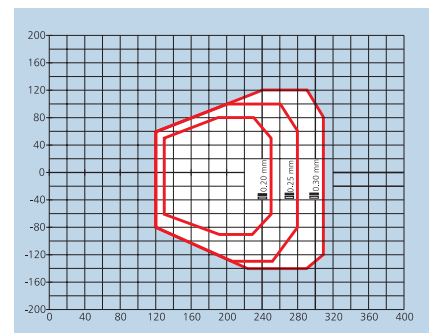
## Reading Diagrams



Medium Range model (DS4600A-3000)



Long Range model (DS4600A-3100)



High Resolution model (DS4600A-3200)



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