



DS4600

High Performance Compact Laser Scanner

FEATURES

- **ACR™ 2nd generation code reconstruction**
- **Ambient light immunity**
- **Variable scan speed up to 1400 scan/sec**
- Reading distance up to 1000 mm
- 2 software programmable high speed serial interfaces
- **WINHOST™** programming

APPLICATIONS

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

GENERAL DESCRIPTION

The **DS4600** is the ideal solution for medium range unattended bar code scanning. This industrial scanner is available in two reading range versions. The medium range model features a maximum reading distance of 530 mm while the long range version features an outstanding 1000 mm maximum reading distance. The reading characteristics of the **DS4600** make this scanner suitable for a wide range of applications in the industrial field, including automated warehousing and manufacturing. It is the only scanner in its category that features ambient light immunity. This unique feature makes the **DS4600** suitable for outdoor applications and makes installation simple, not requiring any screening of the direct light sources around the reading stations.

The **DS4600** is available with an **ACR™** (Advanced Code Reconstruction) 2nd generation decoder. **ACR™** technology is based on a powerful DSP able to carry out real time bar code image reconstruction and decoding, allowing the reading of non-oriented labels placed in various positions on objects. This code reconstruction capability also dramatically enhances the readability of poorly printed or damaged codes.

DS4600 is fully programmable through the powerful and user-friendly **WINHOST™** software, increasing system flexibility and allowing fast and easy "plug-and-play" installation. Featuring state-of-the-art technology and extreme flexibility, the **DS4600** reinforces Datalogic's leadership in the design, manufacture and distribution of bar code reading systems.



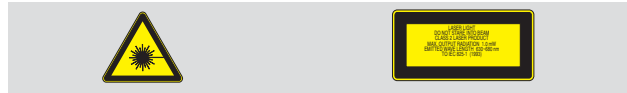
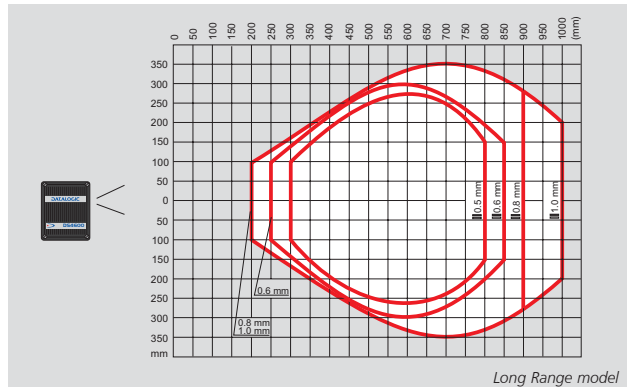
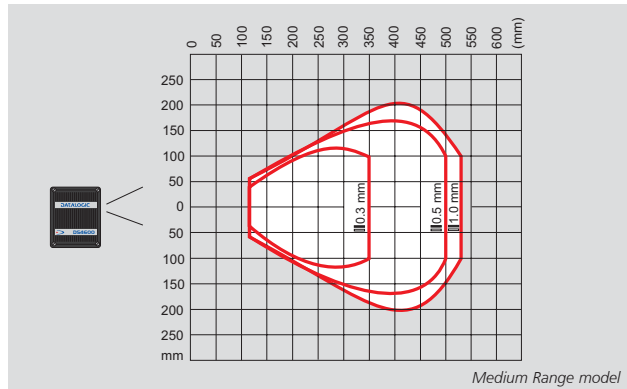
MODELS AND ACCESSORIES

MODEL	DESCRIPTION	ORDER NO.
DS4600-3000	Medium range linear scanner with ACR decoder and 25-pin connector	931061060
DS4600-3100	Long range linear scanner with ACR decoder and 25-pin connector	931061140
ACCESSORIES		
PG110/DVE-1212A	12 Vdc Power block (110 Vac)	B9751057
PG220/DVE-1212A	12 Vdc Power block (220 Vac)	B9751027
C-BOX 100	Passive connection box	93ACC1510
C-BOX 200	Active connection box	93ACC1520
C-BOX 300	PROFIBUS-DP CONNECTION BOX	93A301000
C-BOX 310	PROFIBUS-DP CONNECTION BOX WITH DISPLAY	93A301030
GFC-41	90° reading device	910081000
OM4000	Industrial oscillating mirror	93A251030
INT-24	20 mA C.L. Active Interface Board DS4300/4600	93A151000

SPECIFICATIONS

POWER SUPPLY	10 to 30 Vdc
POWER CONSUMPTION	6 W
LIGHT SOURCE	Visible Laser Diode (650 nm)
MAX. RESOLUTION	0.30 mm (12 mils)
SCAN RATE	400-1000 scan/s (SW programmable) (800 scan/s default, 1400 scan/s option)
MAX. READING DISTANCE	DS4600-3000 530 mm (20.9 in) DS4600-3100 1000 mm (39.4 in)
MAX. DEPTH OF FIELD	DS4600-3000 410 mm (16.9 in) DS4600-3100 800 mm (31.5 in)
MAX. READING FIELD	DS4600-3000 420 mm (16.5 in) DS4600-3100 700 mm (27.6 in)
APERTURE ANGLE	60 degrees
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', 'Label present', 'Data transmit'
LASER CLASSIFICATION	IEC 825 Class 2
LASER CONTROL	Security system to turn laser Off in case of motor slow down or failure
DIMENSIONS	101 x 83.5 x 42 mm (3.98 x 3.29 x 1.65 in.)
WEIGHT	800 g (28.2 oz.) approx.
CASE MATERIAL	Cast aluminium
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



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We reserve the right to make modifications and improvements

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