



Dragon™

**Industrial hand-held
laser scanner**

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Distance readers

FEATURES

- ENHANCED MULTISTANDARD ARCHITECTURE
- 3 optics available
- 2 metre drop resistance
- High resistance cables and connections
- Trigger resists more than 1 million hits
- Man/machine interface: high tone beeper and strong illuminating LEDs
- High power supply range
- Working temperature: -10 °C to 50 °C

APPLICATIONS

- Shop Floor:
 - WIP
 - Tracking
 - Quality Control
- Warehousing

GENERAL DESCRIPTION

Datalogic renews its range of industrial laser scanner introducing the Dragon™ Desk family. Based on the same rugged and reliable mechanics of the well-established DLL6010-M series, it has been completely renewed inside. Robustness and ergonomics, that have been the main driver of our original project, remain unsurpassed: clearly audible beeper and bright “good read” LEDs for areas where noise levels are normally high; optical parts completely suspended on shock absorbers to prevent mis-alignment after repeated “knocks”; and careful choice of body materials, such as the co-moulded rubber, protect the Dragon™ from damage due to “falls”.

The new enhanced architecture, based on an high speed microcontroller, allows exceptional performance for promptness and reading speed of standard codes as well as the ability to read poorly printed and damaged codes. The Puzzle Solver Technology™, a patent from Datalogic, adds further strength to the Dragon™ powerful engine.

Three optical versions of the Dragon™ are available. All include a multi-standard decoder (RS232, Wedge, and Pen emulation) and respond to specific application requirements. The Standard model (Dragon™ D101) is suitable for the most common applications. The LONG RANGE model (Dragon™ D101 LR) reads codes up to a distance of 2 metres away. For codes with resolutions up to 0.06 mm, the HIGH DENSITY model (Dragon™ D101 HD) is available. The 650 nm laser beam is more visible and bright and makes the aiming and capturing of data easier wherever the level of ambient light is very high.

The Advanced Formatting, allowing the editing and the manipulation of the decoded code before its transmission to the host, permits the connection of the Dragon™ to any existing application software: the Dragon™ can be shaped on the application virtually eliminating any need for software modification.

MODELS AND ACCESSORIES

Models

- **Dragon™ D101**
General purpose laser gun, with multistandard decoder and trigger 4-20 Vdc
- **Dragon™ D101 HD**
High Density laser gun, with multistandard decoder, with trigger 4-20 Vdc
- **Dragon™ D101 LR**
Long Range laser gun, with multistandard decoder, with trigger 4-20 Vdc

Accessories

- **CAB362**
RS232 9-pin female coiled connector
- **CAB363***
RS232 25-pin female coiled connector
- **CAB364***
RS232 25-pin male coiled connector

- **CAB365**
IBM PS/2 minidin wedge coiled cable
- **CAB366**
Wedge AT/XT din wedge coiled cable
- **CAB348**
Pen emulation coiled cable, 9-pin male connector
- **CAB350***
RS232 straight cable, 9-pin female connector (DCE config.)
- **CAB327**
RS232 cable, 9-pin female connector (DCE configuration)
- **CAB389**
RS232/Beetle straight cable, 9-pin male connector
- **CAB328***
RS232 cable, 25-pin female connector cable (DCE configuration)
- **CAB320***
RS232 cable, 25-pin male connector (DTE configuration)
- **CAB321****
IBM PS/2 minidin wedge cable
- **CAB322**
IBM AT/XT din wedge cable
- **CAB324**
IBM vdt. 31xx, 32xx, 37xx, din 240° wedge cable
- **CAB325**
IBM vdt. 3151, 34xx, 8-pin phone connector wedge cable
- **CAB326**
IBM vdt. 3153, 6-pin phone connector wedge cable
- **CAB323**
Pen emulation, 9-pin male connector cable
- **CAB373**
WYSE VDT 60/120/160/185/370 wedge straight cable, 4-pin telephone connector
- **CAB374**
APPLE VDT (ADB-BUS) wedge straight cable, minidin connector
- **CAB375**
DEC VDT VT200/220/240/300/320/340/420 wedge straight cable, 4-pin telephone connector
- **ADP-102**
5P din T-pass adapter
- **ADP-103**
6P minidin T-Pass adapter
- **ADP-200**
USB adapter
- **Operator's Manual**
Software manual for Hand-Held Devices

- **SPC6010**
Desk/Wall holder
- **SPC-DRAGON**
Desk/Wall holder
- **PB6010**
Nylon protecting boot
- **PG5 (110 Vac)**
Power supply unit
- **PG5 (220 Vac)**
Power supply unit

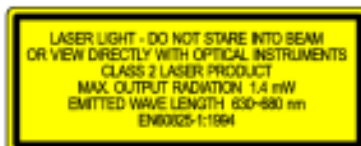
*Power supply available on pin 9 or 25 of the connector.

**CAB321 SH1738 (cod. 90A051140) also available for Notebook and IBM SureOne, minidin connector.

SPECIFICATIONS

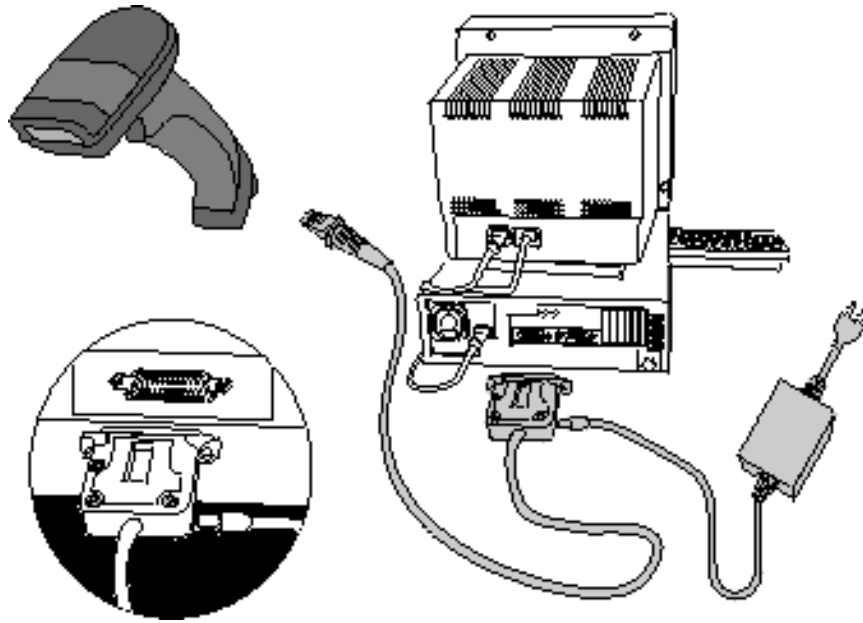
- **POWER SUPPLY**
4 to 20 VDC
- **CONSUMPTION**
250 mA @ 4 V; 170 mA @ 5 V; 40 mA @ 20 V
- **LIGHT SOURCE**
650 nm (D101, D101 L.R.); 640 nm (D101 H.D.)
- **MAX. RESOLUTION**
0.08 mm (3 mils) D101
0.06 mm (2.5 mils) D101 H.D.
0.25 mm (10 mils) D101 L.R.
- **SCAN RATE**
36 ± 3 scans/sec
- **PRINT CONTRAST RATIO (min)**
15% (D101); 40% (D101 H.D., D101 L.R.)
- **READING FIELD**
[See diagrams](#)
- **DEPTH OF FIELD**
[See diagrams](#)
- **READING DISTANCE**
[See diagrams](#)
- **SENSOR**
VLD
- **READING INDICATORS**
Laser On, Good Read, Beeper

- **READING ANGLE**
Skew $\pm 60^\circ$
Pitch 5 to 55° , -5 to -55°
Tilt $\pm 20^\circ$
- **BAR CODES**
 2/5 family, Code 39 (plus Code 32, Cip 39), EAN/UPC, EAN 128, Code 128, Code 93, CODABAR, TELEPEN, PLESSEY, Code 49, Code MSI, Code Delta IBM, Code 11, CODABLOCK, Code 16K, ISBN/ISSN, ISBT 128
- **PROGRAMMING METHOD**
Manual: Reading special bar codes
Automatic (with RS232): S/W commands through the serial port
WinSetPlus: Windows configuration program
- **ENHANCED FEATURES**
 Puzzle Solver™, data editing and data concatenation
- **INTERFACES**
 RS232, pen emulation, Wedge (PC IBM AT/PS2, IBM SureOne, Notebook, IBM terminals: 31xx, 32xx, 34xx, 37xx, 3153, WYSE VDT 60/120/160/185/370, DEC VDT VT200/220/240/300/320/ 340/420, APPLE ADB BUS) ALT mode Wedge option for PC/AT and Notebook, keyboard set-up
- **DIMENSIONS (without cable)**
 203.0 x 117.2 x 68.9 mm (7.99 x 4.61 x 2.71 in)
- **WEIGHT (without cable)**
 Approx. 270 g (9.54 oz)
- **CASE MATERIAL**
 Blend of ABS and polycarbonate, plus co-moulded rubber
- **CABLE LENGTH**
 2 m (6.6 ft)
- **LASER CLASSIFICATION**
 Class 2 (IEC 825-1 and CDRH)
- **AMBIENT LIGHT CONDITIONS**
 Immune to light exposure in offices and facilities, and direct exposure to sunlight
- **OPERATING TEMPERATURE**
 -10 to 50°C (14 to 122°F)
- **STORAGE TEMPERATURE**
 -20 to 60°C (-4 to 140°F)
- **HUMIDITY**
 90% non condensing
- **DROP RESISTANCE**
 Withstands repeated drops from 2 m onto a concrete surface
- **ENVIRONMENTAL PROTECTION**
 Sealed against dust and rain

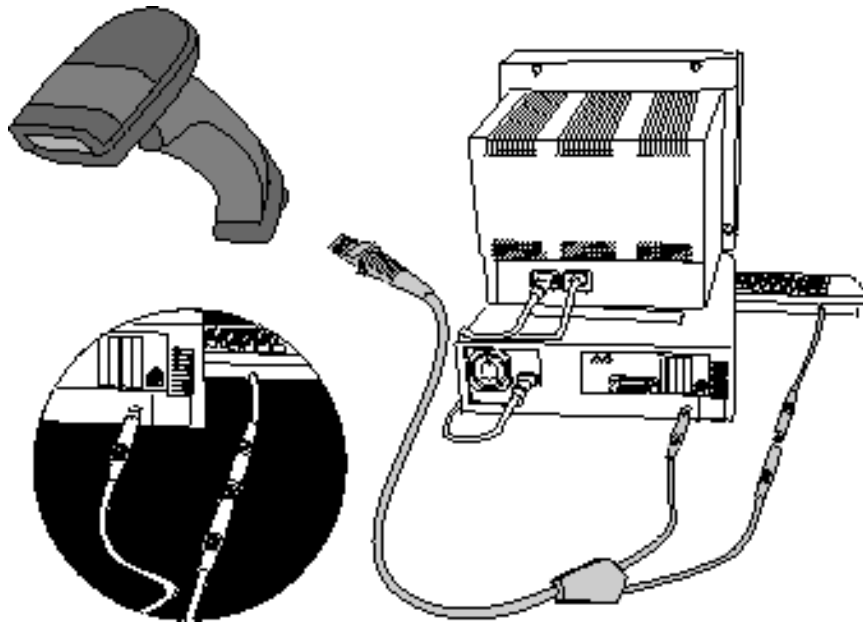


CONNECTIONS

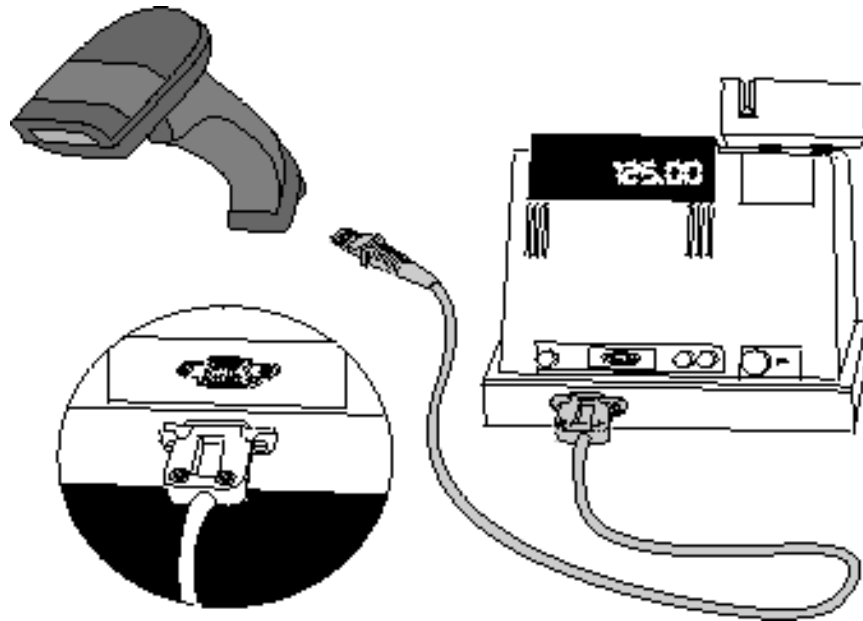
RS232 connection



Wedge Connection

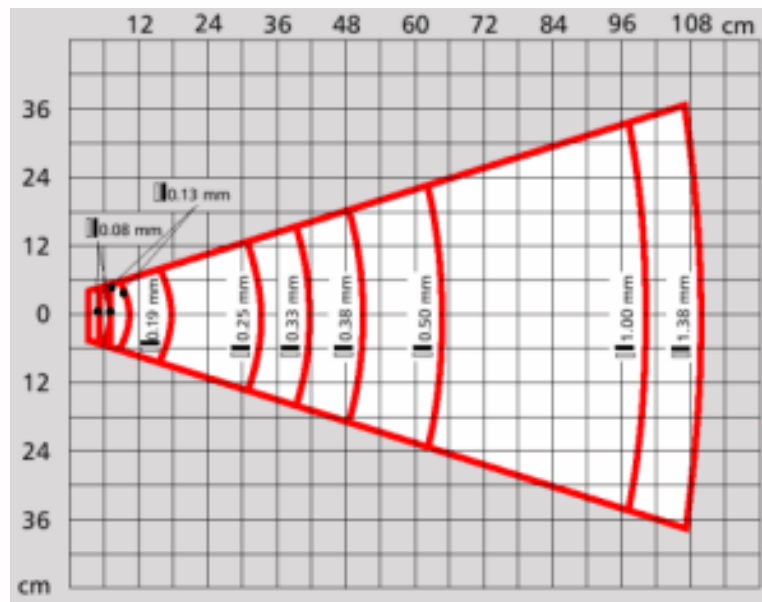


Pen Emulation Connection

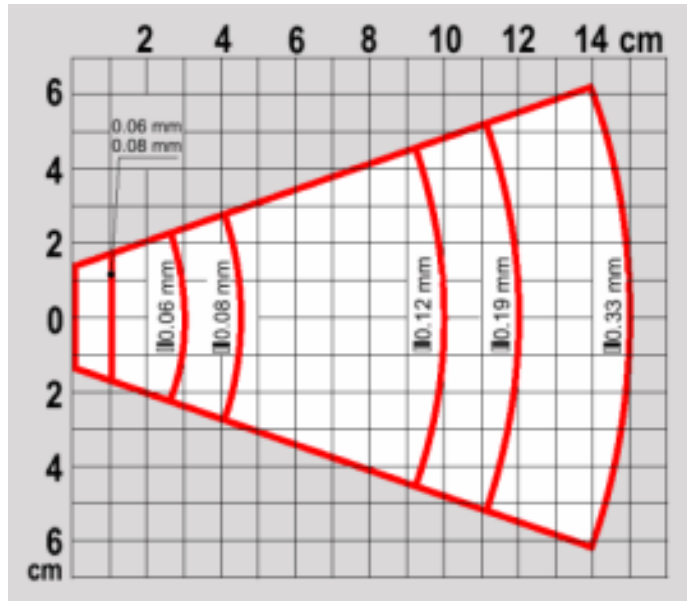


READING DIAGRAMS

General Purpose model (D101)



High Density model (D101 HD)



Long Range model (D101 LR)

