



PDF417


**5**  
year  
WARRANTY


## General Description

The new **Gryphon™ D200 ESD** barcode reader has been developed by Datalogic in order to satisfy the strict requirements of EPA (ESD Protected Area).

ESD is a phenomena that occurs when an object has an imbalance in its electric charge: a fast charge transfer between objects with different electrostatic potential caused by contact or by the proximity of the two objects. Wherever electronic components are handled, installed or assembled, ESD poses a threat to product quality. Moreover, an increasing number of electronic components are susceptible to be damaged or destroyed by increasingly lower voltage levels.

ESD events, can also compromise the measurements taken by very sensitive instruments, such as in hospital and medical analysis laboratories.

The most advanced polymer and elastomeric technologies have been used to design and develop the new ESD-safe Gryphon™ reader. Thus the body of the product is composed of a slightly conductive plastic, rather than an insulating one, preventing the accumulation of tribocharges. Moreover, specific cables have been conceived for the new **Gryphon™ D200 ESD** guaranteeing ESD safety between any two points on it. All these characteristics are coupled with the same outstanding performances of the standard model, in terms of reading quickness: 270 scans/sec and decoding capability. It allows reading of the most popular stacked codes such as PDF417, CODABLOCK and CODE16K, as well as traditional bar codes. In addition, the **Gryphon™ D200 ESD** exploits the "green spot", (Datalogic patent application) which provides "good reading" feedback directly on the code, where the user usually tends to be looking.

## Features

- > Certified between static dissipative ( $10^6 \Omega$  and  $10^{12} \Omega$ ) and conductive ( $10^3 \Omega$  and  $10^6 \Omega$ ) range
- > Casing and dedicated cable reduce costly component failure caused by electrostatic shocks
- > Complete voltage discharge
- > Outstanding reading/decoding speed
- > Linear and PDF 417 bar code decoding

## Applications

- > Electronic Component Manufacturers: PC Board Assembly and Manufacturing, Disk Drive Manufacturing
- > Semi-Conductor Fabrication
- > Healthcare: hospitals and medical analysis laboratories

## Specifications

### ESD FEATURES

**CERTIFICATION RANK** Safely between static dissipative ( $10^6 \Omega$  and  $10^{12} \Omega$ ) and conductive ( $10^3 \Omega$  and  $10^6 \Omega$ )

**RESIDUAL VOLTAGE** < 5V

### ELECTRICAL CHARACTERISTICS

**POWER SUPPLY** 5 VDC  $\pm$  5%

**CONSUMPTION** 250 mA operating, 330 mA max.

### MECHANICAL CHARACTERISTICS

**DIMENSIONS** 179 x 81 x 98 mm (7.04 x 3.18 x 3.85 in)

**WEIGHT** 200 g.

**CASE MATERIAL** Antistatic Polycarbonate alloy and co-moulded rubber

### PERFORMANCE

**MAX. SCAN RATE** 270 scans/sec

**MAX. RESOLUTION** 0.076 mm (3 mils)

**PRINT CONTRAST RATIO** 15% (min)

**READING ANGLE** Skew:  $\pm 80^\circ$ ; Pitch:  $65^\circ$ ; Tilt:  $\pm 35^\circ$  (EAN13, M=0.8, PCS=0.9)

**SENSOR** CCD solid state (3648 pixels)

**READING INDICATORS** "Green spot" on the code, adjustable tone "beeper"

**BAR CODES** 2/5 family, Code 39 (plus Code 32, Cip 39), EAN/UPC, ISBN/ISSN, EAN 128, Code 128, ISBT 128, Code 93, Code 11, CODABAR, TELEPEN, PLESSEY, Code MSI, Code Delta IBM CODABLOCK, Code 16K, PDF 417, Code 49, RSS symbologies on request

### PROGRAMMING METHOD

*Manual*

Reading special bar codes

*Automatic (with RS232)*

S/W commands through the serial port

*Sm@rtSet*

Windows configuration program

### INTERFACES

RS232 and Wedge

### ENHANCED FEATURES

Puzzle Solver™, data editing and data concatenation

### ENVIRONMENT

**AMBIENT LIGHT CONDITIONS** Up to 100.000 lux

**OPERATING TEMP.** 0 to 55 °C (32 to 131 °F)

**STORAGE TEMP.** -20 to 70 °C (-4 to 158 °F)

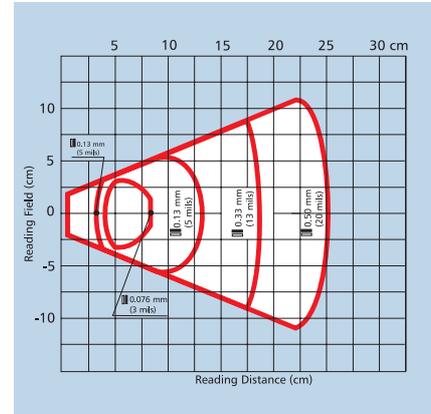
**HUMIDITY** 90% non condensing

**DROP RESISTANCE** IEC 68-2-32 Test ED

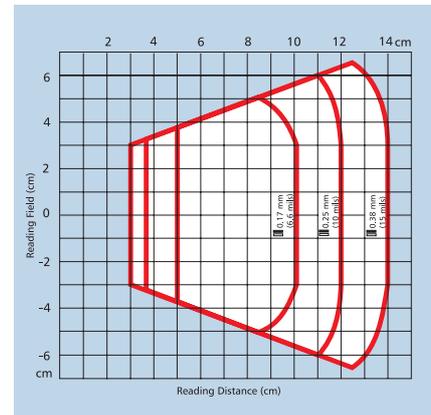
**ENVIRONMENTAL PROTECTION** IP30

**ESD PROTECTION** Functional after 16.5Kv air discharge

## Reading Diagrams



Standard reading zone



PDF417 reading zone

## ESD Glossary

- ESD** Electrostatic Discharge. Quick charge transfer between objects with different electrostatic potentials caused either by direct contact or an electrostatic field.
- ESDS** Electrostatic discharge sensitive devices. Devices that can be damaged by Electrostatic discharge.
- EPA** ESD protected area. Area where the ESDS can be managed safely. ESD phenomena are substantially avoided.
- Surface Resistance** The ratio between the D.C. voltage applied to two electrodes on a test surface and the current between them.
- Surface Resistivity** The equivalent of the Surface Resistance, in this case measured on a rectangular surface, with the electrodes positioned on two opposite sides.
- Conductive Electrostatic Material** Material which has a surface resistivity between  $10^3 \Omega$  and  $10^6 \Omega$ .
- Dissipative Electrostatic Material** Material which has a surface resistivity between  $10^6 \Omega$  and  $10^{12} \Omega$ .
- Insulant Electrostatic Material** Material which has a surface resistivity over  $10^{12} \Omega$ .
- Hard Grounding** A galvanic Earth connection through a highly conductive path which could lead to excessively high or rapid charging/discharging phenomena. To resolve the situation, one must increase the resistance of the overall grounding path.



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