



## Industrial Hand-Held Laser Scanner



## General Description

Unmatched ergonomics for flexible and easy installation, intuitive use, reliable and accurate in the long-term for all industrial applications: these outstanding characteristics perfectly summarize the main benefits offered by the renewed Dragon family.

**Designed for productivity:** operator comfort and productivity, essential in any scan-intensive application, is facilitated by the ergonomic handle, well-balanced weight, multiple good-read feedback (loud beeper, dual patented 3GL™ feedback including 2 leds and a green spot) and built-in metal hook for the reader hung-up on an elastic reel. All this is combined with the Dragon's™ superior reading performance further strengthened by patented Puzzle Solver Technology™ to allow fast and accurate reading of standard, poorly printed and damaged codes.

**Reliability and accuracy in the long term:** the rugged mechanics of the Dragon™ have been developed and tested to withstand extreme shock conditions (tens of drops from 2 m) as well as normal ones (thousands of 1 m drops) while reading performance and accuracy remain unchanged.

**Superior radio features:** operators requiring mobility in the manufacturing plant as well as in the warehouse or distribution center can benefit from the versatility of the mobile models: the Datalogic Star Cordless System™ represents the key to increase productivity and flexibility in the working area; it offers scalable solutions to solve simple point-to-point applications and complex projects. Furthermore, the Dragon™ M with a display and 3 push-button keypad allows the operator to visualize the code, receive information from the host and actively interact with it.

**Installation flexibility:** the set of accessories include a single and multiple battery charger (four slots), holder and stand, offering the opportunity to set-up the working area in the most useful and practical way.

## Features

### Dragon™ Desk

- > 2 meter drop resistance
- > Standard, LR and XLR optics
- > Man/machine interface: loud beeper and 3GL™ feedback
- > 10 cm to 10 m reading range

### Dragon™ Mobile

- > Several models available:
  - With or without display
  - Standard, LR and XLR optics
  - 433 MHz or 910 MHz radio systems
- > Seamless roaming
- > Point-to-Point & Multipoint transmission
- > 100% compatible with STAR-System™
- > Plug-in battery

## Applications

- > Work-in-progress control
- > Warehouse management
- > Shipping and receiving control
- > Cash & carry retail applications
- > Forklifts



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## Specifications

### MODELS

LIGHT SOURCE  
MAX SCAN RATE  
MAX RESOLUTION  
PRINT CONTRAST RATIO (min)  
READING ANGLE  
READING INDICATORS  
BAR CODES

### DRAGON™ D & DRAGON™ M

VLD 630 - 680 nm  
35 ± 5 scans/sec  
0.76 mm (D/M131); 0.25 mm (D/M1x1 LR); 0.33 mm (D/M1x1 XLR)  
15%  
Skew: ±60; Pitch: 5 to 55, -5 to -55; Tilt: ±20  
Laser ON, 3 GL™ feedback, Beeper, Good transmission (Dragon™ M only)  
2/5 family, Code 39 (plus Code 32, Cip 39), EAN/UPC, EAN 128, Code 128, Code 93, CODABAR, Code 49, Code MSI, Code 11, Code 16K, ISBN/ISSN, ISBT 128, RSS codes

### PROGRAMMING METHOD

Manual  
Automatic  
Datalogic Aladdin™  
ENHANCED FEATURES  
CASE MATERIAL  
AMBIENT LIGHT CONDITIONS  
HUMIDITY  
ENVIRONMENTAL PROTECTION

Reading special bar codes  
S/W commands through the RS232 serial port  
Windows configuration program  
Puzzle Solver™, data editing and data concatenation  
ABS and polycarbonate, plus co-molded rubber  
Immune to light exposure in offices/facilities, and direct exposure to sunlight  
90% non condensing  
IP64

### CRADLE

POWER SUPPLY  
POWER CONSUMPTION  
READING INDICATORS  
INTERFACES  
DIMENSIONS without antenna  
CASE MATERIAL  
WEIGHT

### OM-3000/OM-3010

External: 10 to 30 Vdc; Host : 5 Vdc ± 10%  
External: max. 10 W, Host: max. 500 mA  
Battery charging (red), Charge completed (green), Power/Data (yellow)  
USB, RS232, Wedge, Wand and RS485  
240 x 108 x 95 mm (9.44 x 4.25 x 3.75 in)  
ABS  
Approx. 380 g /13.4 oz

### MODELS

POWER SUPPLY  
CONSUMPTION  
INTERFACES  
OPERATING TEMPERATURE  
STORAGE TEMPERATURE  
DROP RESISTANCE  
WEIGHT

### DRAGON™ D

4 to 30 Vdc  
420 mA @ 4 V; 310 mA @ 5 V; 62 mA @ 30 V  
USB, RS232, Wedge, Wand  
-30 to 50 °C (-22 to 122 °F)  
-30 to 70 °C (-22 to 158 °F)  
Withstands repeated drops from 2 m onto a concrete surface  
Approx. 295 g (10.4 oz)

### MODELS

BATTERY TYPE  
DISPLAY

### DRAGON™ M

Li-ION 2150 mAh  
Graphic with backlight, 32 x 96 dots, and font dimension can be selected by the user (with default selection 4 lines x 16 columns) (M131/D model only)

### KEYPAD

3 keys  
(M131/D model only)

### RECHARGE TIME

External: max. 4 hrs /  
Host: max. 10 hrs

### OPERATING AUTONOMY

Over 60,000 operations

### OPERATING TEMP.

-20 to 50 °C (-4 to 122 °F)

### STORAGE TEMP.

-20 to 70 °C (-4 to 158 °F)

### DROP RESISTANCE

Withstands repeated drops from 2 m

### WEIGHT

Approx. 395 g

### RADIO SPECIFICATIONS

RADIO FREQUENCY 433.92 MHz (EMEA, Asia, Oceania);

910 MHz (Americas)

BIT RATE 19,200 bauds (433.92 MHz), 36,800 (910 MHz)

EFFECTIVE RADIATED POWER <10 mW (433.92 MHz);

<1 mW (910 MHz)

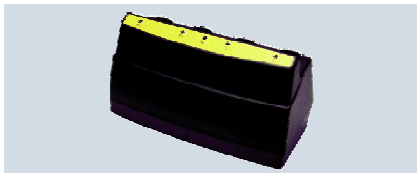
RADIO RANGE Up to 50 m (433.92 MHz);

Up to 30 m (910 MHz), depending on the working area

### MAX NR. COEXISTING SYSTEMS

Max 32 devices per radio receiver; max 2000 devices in the same reading area

## Accessories



Multi-battery charger



OM-3000



SBS-3000 and RBP-3000

### Stand

Makes it possible to use the reader in hands-free mode.

### OM 3000

Radio base station and Gun charger used with RS232, RS485, Wedge, Wand and USB interfaces. It's compatible with the AC-3000.

### OM-3010

This radio base station and Gun charger is available with RS232, Wedge, Wand and USB interfaces.

### C-3000 Gun charger

Compatible with SBS-3000.

### SBS-3000 Spare Battery Slot

Coupled with OM-3000 or C-3000, allows spare battery charging.

### MBC-3000 Multiple battery charger

It allows 4 battery charging.

### SPC-3000 Desk/Wall Holder

It provides installation flexibility.

### HLS-3000 Universal Holster

Allows the reader to be attached to desktops, work-tables, forklift trucks and other types of supports.

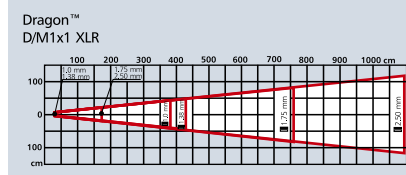
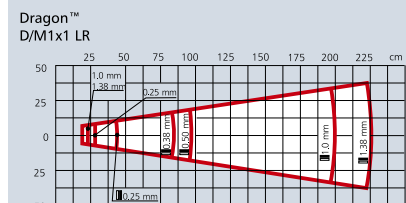
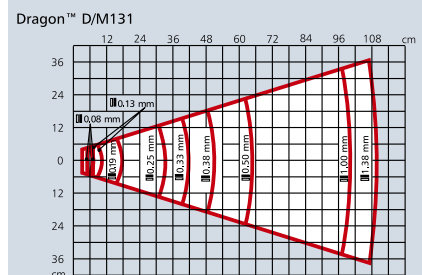
### PC-3000 Protective Case/Belt Holster

It permits the reader to be carried on a belt when not in use and protects it against drops.

### RBP-3000 Removable Battery Pack

Click on/off battery without screw for easy battery replacement and "stand-alone" charging.

## Reading Diagrams



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