Dragon™

Industrial Hand-Held Laser Scanners

Aim Mode

Forklift Solution

STAR-System™ compatible

Hand-Held Readers

General Description

The Dragon™ family offers ergonomics, robustness and high reliability for bar code reading in industrial environments. The Dragon's™ features include a clearly audible beeper, bright "good read" LEDs for areas where noise levels are normally high, and aim mode, to help point to the right code. Optical parts are completely suspended on shock absorbers and a careful choice of the body materials, such as co-molded rubber, protect the Dragon™ from damage due to falls.

The enhanced architecture, based on a M16 high-speed microprocessor, provides the Dragon™ with a much faster reading speed of standard codes, as well as the ability to read poorly printed and damaged codes. Puzzle Solver Technology™, a patent from Datalogic, adds further strength to the Dragon™'s powerful engine.

In all applications where mobility is a value, the new Dragon™ M represents the key to increase productivity and flexibility in the working area. Dragon™ M communicates through a low power, license-free radio in the 433 Mhz band (910 Mhz for USA version) and allows bi-directional communication between the base station and the host. Dragon™ M also includes a display and a 3 push-button keypad. Thanks to these features, the operator can receive information from the host, actively interact with the central system and visualize the code read. The cordless system offers scalable solutions to solve simple applications and complex projects.

The new Dragon™ D151 XLR offers superior performance from 10 cm (EAN) to 10 m (100 mil reflective codes) and provides full connectivity to the Rhino™ forklift terminal (via RS232).

All these features make the Dragon™ family a complete solution for any application in industrial environments.

Features

Dragon™ Desk
> 2 meter drop resistance
> 4 optics available
> Man/machine interface: high tone beeper and strong illuminating LEDs
> 10 cm to 10 m reading range

Dragon™ Mobile
> Several models available:
  - With or without display
  - High Performance or Long Range optics system
  - 433MHz or 910MHz radio systems
> Seamless roaming
> Point-to-Point & Multipoint transmission
> 100% compatible with STAR-System™

Applications

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

Dragon™

Industrial Hand-Held Laser Scanners

Specifications

MODELS	DRAGON™ D & DRAGON™ M
LIGHT SOURCE	VLD 630 - 680 nm (depending on the model)
MAX SCAN RATE	35 ± 5 scans/sec
MAX RESOLUTION	0.08 mm: D101; 0.06 mm: D101: HD; 0.25 mm: D101 LR; 0.12 mm: M 101; 0.25 mm: M101 LR; 0.33 mm: D151 XLR
PRINT CONTRAST RATIO (min)	15% D101; 40% D101 HD, D101 LR; 15% M101; 40% M101 LR
READING ANGLE	Skew: ±60; Pitch: 5 to 55, -5 to -55; Tilt: ±20
READING INDICATORS	Laser ON, Good Read, Beeper, Good transmission (Dragon™ M only)
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	S/W commands through the RS232 serial port
Sm@rtSet™	Windows configuration program
INTERFACES	RS232, Wedge, Pen emulation; RS232 (Dragon™ D151 XLR)
ENHANCED FEATURES	Puzzle Solver™, data editing and data concatenation
CASE MATERIAL	ABS and polycarbonate, plus co-molded rubber
AMBIENT LIGHT CONDITIONS	Immune to light exposure in offices/facilities, and direct exposure to sunlight
HUMIDITY	90% non condensing
ENVIRONMENTAL PROTECTION	Immune to water and dust
CRADLE	**OM DRAGON™**
POWER SUPPLY	9 to 28 Vdc
POWER CONSUMPTION	max. 8 W
READING INDICATORS	Battery charging (red), Charge completed (green), Power/Data (yellow)
DIMENSIONS without antenna	185 x 115 x 104 mm (7.28 X 4.52 X 4.09 in)
CASE MATERIAL	ABS
WEIGHT	Approx. 600 g (21.1 oz)
MODELS	**DRAGON™ D**
POWER SUPPLY	4 to 20 Vdc
CONSUMPTION	250 mA @ 4 V; 170 mA @ 5 V; 40 mA @ 20 V
OPERATING TEMPERATURE	-10 to 50 °C (14 to 122 °F); -30 to 50 °C (Dragon™ D151 XLR)
STORAGE TEMPERATURE	-20 to 50 °C (-4 to 122 °F)
DROP RESISTANCE	Withstands repeated drops from 2 m onto a concrete surface
WEIGHT	Approx. 270 g (9.53 oz)

MODELS	DRAGON™ M
BATTERY TYPE	NiMh (3480 mWh) (All AA NiCD and Alkaline batteries can also be used)
DISPLAY	Graphic with backlight, 32 x 96 dots, and font dimension can be selected by the user (with default selection 4 lines x 16 columns) (M101/D model only)
KEYPAD	Membrane keypad with 3 keys (M101/D model only)
RECHARGE TIME	2 hours
OPERATING AUTONOMY	Over 60,000 with NiMh batteries (Test mode: 100 reads/min)
OPERATING TEMP.	-10 to 40 °C (14 to 104 °F)
STORAGE TEMP.	-20 to 50 C (-4 to 122 F)
DROP RESISTANCE	Withstands repeated drops from 1,8 m (M101), 1,5 m (M101/D) onto a concrete surface
WEIGHT	Approx. 340 g (12 oz)
RADIO SPECIFICATIONS	
RADIO FREQUENCY	433.05 - 434.79Mhz (Europe); 909.94 - 910.06 Mhz (USA)
BIT RATE	19,200 bauds (European models), 36,800 (USA models)
EFFECTIVE RADIATED POWER	<10 mW (Europe); <1 mW (USA)
RADIO RANGE	Up to 50 m (Europe); Up to 30 m (USA), depending on the working area
MAX NR. COEXISTING SYSTEMS	Max 32 devices per radio receiver; max 2000 devices in the same reading area

Accessories

STD1000

OM - Dragon™/C-Dragon™

Desk/Wall Holder

Universal Holster

Protective case

Stand
Robust and compact, the stand makes it possible to use the reader in a hands-free mode.

OM Dragon™/C-Dragon™
The OM cradle functions both as a radio base station and a recharge base, providing RS232 and RS485 connection. The C-Dragon™ provides a low cost alternative in a single recharge base.

Desk/Wall Holder
This item provides ease of use and flexibility in many environments where work space is limited.

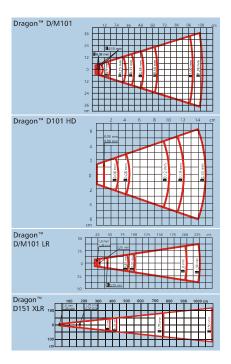## Universal Holster
It is designed to offer a robust and handy way to attach the readers to desktops, work-tables, forklift trucks, and other types of supports.

Protective case/Belt coupler
This permits the reader to be carried on a belt when not in use, and protect it against drops.

Reading Diagrams

Dragon™ D/M101

Dragon™ D101 HD

Dragon™ D/M101 LR

Dragon™ D151 XLR

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