



DLC7070-M

CCD GUN™

Features

- MULTISTANDARD ARCHITECTURE
- Instinctive reading distance
- Advanced distance reading CCD technology
- Ergonomy and natural use
- Rugged and reliable
- Retail "hands free stand"/desk resting shape
- Man/machine interface: dual beeper and large LED
- MFRS™ (multi-feedback reading system)
- IHHC™ (Intelligent Hand-Held Controller)
- Single chip 25 Mhz microprocessor
- OLE for POS compliance 

Applications

- Data collection in commercial and office automation environments
- Data collection in light industrial environments

General Description

Datalogic's innovative reader operates at up to 40 cm from the bar code and is based on the most innovative CCD technology, previously reserved for contact reading, allowing it to read like a laser scanner over long distances, with equal or better results.

With the objective of making the operator's job easier, the **DLC7070-M** CCD GUN™ offers ergonomic solutions designed to optimise handling and ease of use. After careful market analysis focused on determining operational needs for bar code acquisition applications in retail, banks, post offices and insurance companies, Datalogic found that the user typically holds a reader at a distance of between 3 cm and 18 cm from the bar code.

We have defined this as the INSTINCTIVE READING DISTANCE.

On the basis of this information, Datalogic designed the new reader offering the best performance in this instinctive reading field.

Reading is always aggressive and reliable thanks to the sophisticated optical system with a concentrated illumination beam, facilitating correct alignment on the bar code. A double beeper and a large LED indicator provide unique operator feedback.

Reliability and ruggedness were also very important factors in Datalogic's research. The optical system, without moving parts, is mounted on shock absorbers to guarantee continued functionality even after repeated drops onto concrete, and the push button can withstand thousands of operations.

All in all, it is an important challenge that only the European leader in CCD technology can meet.

Advanced Technology

The DLC7070-M is a revolutionary product.

This reader based on CCD technology is capable of reaching and surpassing the performance levels of a laser scanner.

How was this amazing result reached?

Our three main goals were to achieve long distance reading, fast data capture and high feed back to the operator, as well as precise targeting of the code.

We responded to the user's needs with state-of-the-art technological innovation.

Just think of an automobile; making it go is easy. Just turn on the engine, shift gear and step on the accelerator. However, if the engine is already on, departure occurs much faster.

The DLC7070-M's motor is always on. All the user needs to do is press the trigger.

It reads promptly, while power consumption is always low.

As far as reading distance and easy pointing at the code are concerned, we put much effort into concentrating the light beam emitted by the reader.

The red light can be identified easily by the user in any environmental conditions. The light beam always remains bright, sharp and defined even at long distances.

We also paid particular attention to the depth of field, using sophisticated optics and a diaphragm capable of maintaining sharp images of near and long distance codes.

All this is enclosed in an ergonomic form of a gun: the CCD-GUN™.



A new market segment: Instinctive reading

By observing bar code users during a typical work day in the retail or office automation sectors (banks, post offices, insurance companies, etc.), we noticed that they usually hold the reader at a distance of 3 to 18 cm from the bar code.

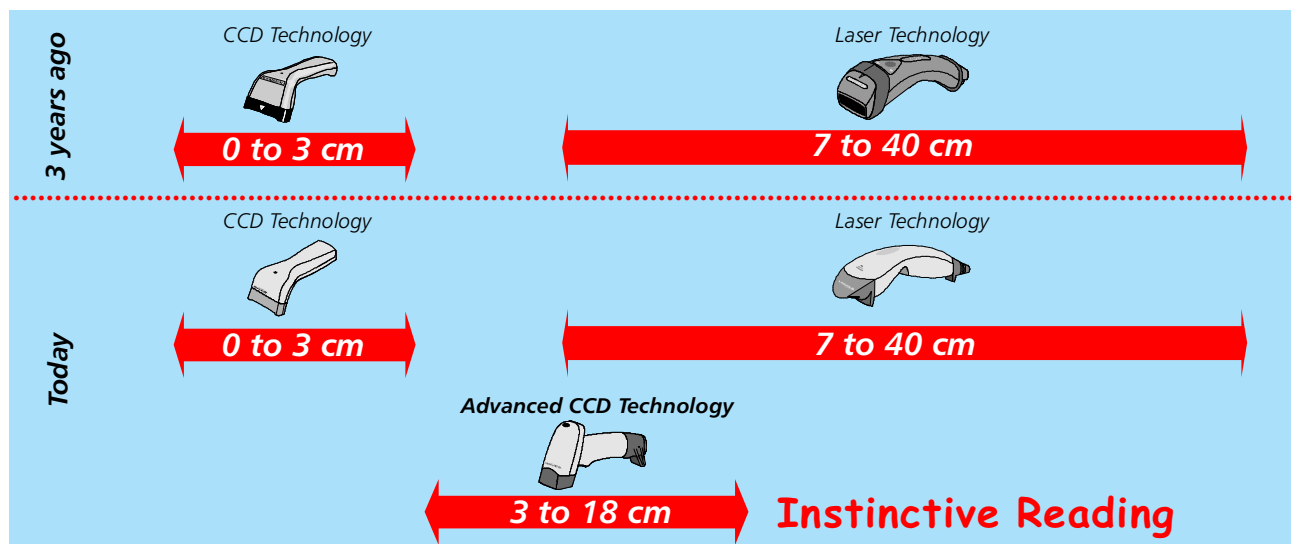
We also noted that when reading is difficult, the operator tends to bring the reader closer to the code to increase reading probability.

We have defined this behavior as "Instinctive Reading." All our research and development has focused on providing a reader with excellent performance in this area to completely

satisfy this natural tendency manifested by the user.

Research and studies conducted on the opto-electronic components then allowed us to go a step further.

We combined the needs of bar code users with innovative technology in the CCD (Charged Coupled Device) field, providing high performance in long distance reading and never before imagined reading response times, as well as filling a performance GAP, namely, the "instinctive reading distance" not covered by previous technologies.



Applications

The DLC7070-M can be used in a wide range of applications due to its versatility and ease of use.

The DLC7070-M represents the ideal solution for bar code reading especially in the retail and service sectors.

Point - of - sale reading, price verification, mark-downs and in-store inventory management can be profitably enhanced thanks to the DLC7070-M in a variety of retail environments: mass merchandise, speciality retail, department stores, superettes and groceries.

Thanks to the retail stand STD7070, hands-free scanning can be performed in checkout environments where small items must be read frequently.

It requires no space at the retail POS counter and is easily mounted.

Document tracking and order processing are some of the most common applications in banks, insurance companies, post offices and in shipping and receiving office operations. Patient tracking and clinical control duties are the main applications found in hospitals and clinics.

In all these environments, DLC7070-M is highly productive and its quickness reduces performance time especially in sequential operations.

DLC7070-M is also of great value in light warehouse and manufacturing applications. Assembly line material tracking, inventory management, picking, shipping and receiving are performed at their best with the CCD-GUN™.

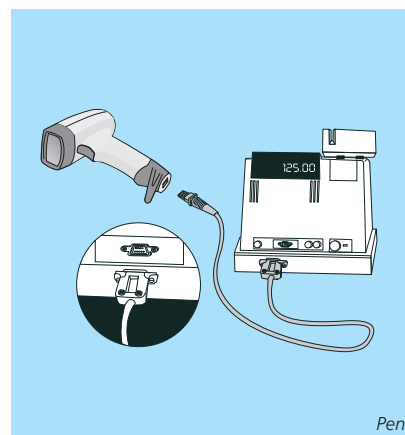
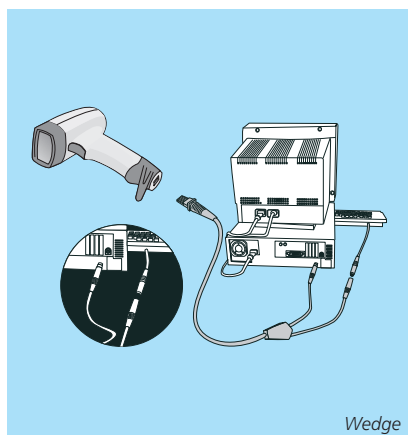
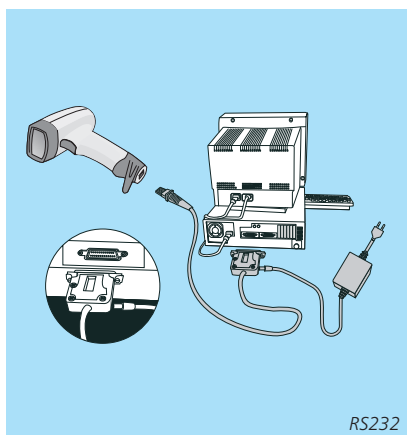
Moreover, its particular low power consumption makes the DLC7070-M ideal also as an attachment to a portable terminal for mobile applications.

This is all possible thanks to DLC7070-M's ergonomics, easy aiming and careful attention paid to particular features such as the high resistant trigger, adjustable high tone beepers, aggressiveness and, of course, reliability.

The DLC7070-M provides superior bar code scanning thanks to the "instinctive reading" feature, maximum user comfort and a highly attractive price.



Connections



Models and Accessories

MODEL	DESCRIPTION			ORDER NO.
DLC7070-M1	CCD Gun with multistandard decoder			901251000
ACCESSORIES		COILED CABLE	STRAIGHT CABLE	
CAB362	RS232 cable, 9-pin female connector (DCE config.)	•		90A051330
CAB363*	RS232 cable, 25-pin female connector (DCE config.)	•		90A051340
CAB364*	RS232 cable, 25-pin male connector (DTE config.)	•		90A051350
CAB365	IBM PS/2 wedge cable, minidin connector	•		90A051360
CAB366	IBM AT/XT wedge cable, din connector	•		90A051370
CAB348	Pen emulation cable, 9-pin male connector	•		90A051210
CAB327	RS232 cable, 9-pin female connector (DCE config.)		•	90G001070
CAB328*	RS232 cable, 25-pin female connector (DCE config.)		•	90G001080
CAB320*	RS232 cable, 25-pin male connector (DTE config.)		•	90G001000
CAB321**	IBM PS/2 wedge cable, minidin connector		•	90G001010
CAB322	IBM AT/XT wedge cable, din connector		•	90G001020
CAB324	IBM vdt. 31xx, 32xx, 37xx wedge cable, din 240° connector		•	90G001040
CAB325	IBM vdt. 3151, 34xx wedge cable, 8-pin telephone connector		•	90G001050
CAB326	IBM vdt. 3153 wedge cable, 6-pin telephone connector		•	90G001060
CAB323	Pen emulation cable, 9-pin male connector		•	90A051030
Operator's Manual	Software manual for Hand-Held Devices			90ACC1560
STD7070	DLC7070 retail stand			90ACC1450
SPC7070	Wall holder			90ACC1510
PG5 (110 Vac)	Power supply unit			B9751038
PG5 (220 Vac)	Power supply unit			B9751037

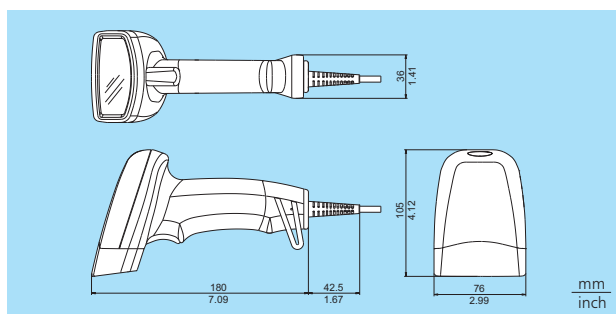
*Power supply available on pin 9 or 25 of the connector.

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

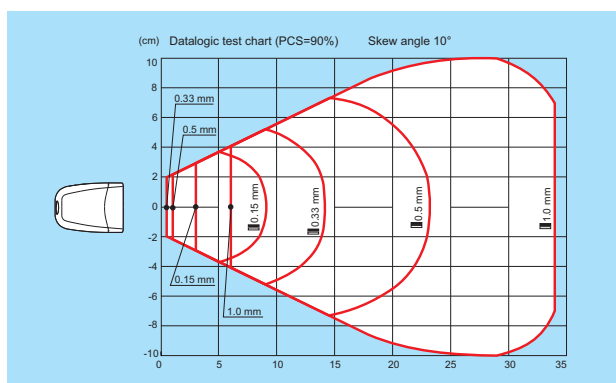
Specifications

POWER SUPPLY	5 VDC $\pm$ 5%
CONSUMPTION	150 mA (max) 500 μ A in sleep mode (operating modes need to be programmed)
LIGHT SOURCE	Visible red LED
MAX. RESOLUTION	0.13 mm (0.005 in) (PCS 90%)
SCAN RATE	100 scan/sec
PRINT CONTRAST RATIO (min)	15%
READING FIELD	40 to 200 mm (1.57 to 7.87 in)
DEPTH OF FIELD	135 mm (5.31 in) (EAN 13 M=1 PCS 90%) 280 mm (11.02 in) (CODE 39 1mm PCS 90%)
READING DISTANCE	5 to 140 mm (0.20 to 5.51 in) (EAN 13 M=1 PCS 90%) 60 to 340 mm (2.36 to 13.40 in) (CODE 39 1mm PCS 90%)
DECODER	Masked single chip decoder, 25 MHz
SENSOR	CCD 2048 pixel
READING INDICATORS	Good read led, beeper
READING ANGLE	45°
Skew	$\pm$ 64° (EAN 13 M=0.8 PCS 90%)
Pitch	$\pm$ 42° (EAN 13 M=0.8 PCS 90%)
Tilt	$\pm$ 28° (EAN 13 M=1.2 PCS 90%)
BAR CODES	2/5 family, Code 39, Code 93, Code 128, Code 32, Code 39 CIP, EAN 128, EAN/UPC, Codabar
PROGRAMMING METHOD	Reading special bar codes
Manual	S/W commands through the serial port
Automatic (with RS232)	Windows configuration program
WinSET	
INTERFACES	RS232 (baud rate 150 to 19200 bit/sec), Wedge (IBM PC XT/AT/PS2, IBM terminals 31xx, 34xx, 37xx, IBM PC/XT, Note Book, IBM SURE ONE, and compatibles), Wand emulation
DIMENSIONS (without cable)	180 x 105 x 76 mm (7.09 x 4.12 x 2.99 in)
WEIGHT	Approx. 230 g (8.11 oz)
CASE MATERIAL	ABS
CABLE LENGTH	2 m (6.6 ft)
AMBIENT LIGHT CONDITIONS	Up to 50,000 lux (EAN 13 M=0.8 PCS 90%)
OPERATING TEMPERATURE	0 to 55 °C (32 to 131 °F)
STORAGE TEMPERATURE	-20 to 70 °C (-4 to 158 °F)
HUMIDITY	90% non condensing
DROP RESISTANCE	Withstands repeated drops of 1.5 m (5 ft) onto a concrete surface
ENVIRONMENTAL PROTECTION	IP30

Dimensions



Reading Diagram



DATALOGIC **DL**
Bar Code & More

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We reserve the right to make modifications and improvements

Datalogic Quality Partner



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