

# F734-E F734-E/RF

## Pocket-sized Laser Terminal

**DATALOGIC**  
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Mobile Computers

## General Description

The Formula 734-E and F734-E/RF are lightweight, pocket-sized and fully programmable terminals claiming the greatest sales success of the Datalogic MC range. With 1MB of RAM memory for managing large databases and 512KB of Flash memory for application programs, these terminals solve the most complex application needs and exploit the "overspeed" feature to boost software performance. Equipped with a practical 25-key alphanumeric keyboard that allows data, codes and descriptions to be input very quickly and a wide backlit LCD display which clearly shows much information, these devices represent the ideal solution for many applications in the Retail, Transportation & Logistics and Manufacturing markets.

Both the F734-E batch version and the F734-E/RF Radio version offer excellent reading performance, that allows bar codes to be scanned up to a distance of 70 cm, and long life batteries that assure great autonomy, capable of covering more than one work shift.

By using the optional EasyGen™ Application Generator or the DS for Formula™ software packages, developers can easily customize any batch application according to the end user's specific needs. The most common data collection operations such as inventory, picking and shipping/receiving become easy to perform.

The Formula 734-E/RF radio terminal is the right choice for exploiting all the benefits of mobility and real-time communication. Completely compatible with Datalogic's STAR-System™, it offers a reliable and cost-effective solution. Software developers can take advantage of the power and completeness of DS for Formula™ and of the flexibility and ease-of-use of ForWin™ when building personalized applications.

Thanks to their excellent price/performance ratio, F734-E and F734-E/RF represent an optimal solution for many applications in many different markets.

## Features

- > Extremely compact and sturdy
- > Lightweight (184 g Batch/215 g RF)
- > Large data/program memory capacity and "Overspeed" capability
- > User-friendly interface
- > 100% compatible with STAR-System™
- > Conformity to the European ETSI standard EN 300 220-3
- > Excellent price/performance ratio

## Applications

- > Goods shipping/receiving
- > Inventory/Picking
- > Warehouse management
- > Shop Floor
- > Access Control
- > Order management
- > Shelf price-checking

### Specifications

#### PHYSICAL CHARACTERISTICS

<b>DIMENSIONS</b>	Batch model: 165 x 56 x 32 mm (6.5 x 2.2 x 1.3 in) RF model: 209 x 56 x 37 mm (8.2 x 2.2 x 1.5 in) including antenna
<b>WEIGHT</b>	Batch model: 184 g (6.5 oz) including battery RF model: 215 g (7.6 oz) including battery
<b>DISPLAY</b>	Graphic high-contrast LCD with backlight
<b>SCREEN FORMAT</b>	4 lines x 16 characters
<b>OPERATING TEMPERATURE</b>	0 to 50 °C (32 to 122 °F)
<b>STORAGE TEMPERATURE</b>	-20 °C to 70 °C (-4 °F to 158 °F)
<b>RELATIVE HUMIDITY</b>	95% without condensation
<b>DROP RESISTANCE</b>	Resists several drops onto concrete
<b>ENVIRONMENTAL PROTECTION</b>	Industrial, protected against dust and water

#### PERFORMANCE

<b>OPERATIVE SYSTEM</b>	Datalogic proprietary
<b>PROCESSOR</b>	8 bit CMOS
<b>PROGRAMME MEMORY</b>	512 KB Flash dedicated to the application program
<b>DATA MEMORY</b>	Batch model: 1024 KB RAM for data RF model: 512KB RAM for data
<b>KEYBOARD</b>	Alphanumeric with 25 silicon rubber keys
<b>SIGNAL TO OPERATOR</b>	Bicolor LED; piezoelectric buzzer; programmable frequency and duration
<b>CLOCK/CALENDAR</b>	Quartz controlled RTC; programmable date and time

#### RF COMMUNICATION

<b>RADIO FREQUENCY</b>	433.92 MHz
<b>RADIO POWER OUTPUT</b>	< 10 mW
<b>RADIO RANGE*</b>	50 m (164 ft)
<b>DATA TRANSFER RATE</b>	Up to 19,200 bauds
<b>CONFORMITY</b>	European ETSI standard EN 300 220-3

#### SERIAL COMMUNICATION

<b>DATA TRANSFER</b>	Infrared (via optocoupler) between F734-E and F951 or F950/4, RS232 or RS485 between F951 or F950/4 and PC or Host Transmission speed: up to 115 Kbit/sec
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#### POWER MANAGEMENT

<b>POWER SOURCE</b>	Batch model: 250 mAh NiCd rechargeable batteries RF model: 650 mAh NiMH rechargeable batteries
<b>AUTONOMY</b>	Batch model: 18h, with reading every 45" RF model: 24 h, with reading every 45"
<b>BATTERY CHARGING</b>	Via Formula 951 single slot Transceiver/Charger or Formula 950/4 multiple slot Transceiver/Charger

#### SCANNER AND BARCODE CHARACTERISTICS

<b>SCANNING RATE</b>	35 ± 5 scans/sec
<b>MINIMUM RESOLUTION</b>	0.15 mm (6 mils)
<b>DEPTH OF FIELD</b>	3 to 70 cm (1.2 to 27.6 in), depending on bar code density
<b>SCAN ANGLE</b>	42° ± 2
<b>BAR CODES</b>	EAN 8, EAN 13, UPC/A-E, 2/5 family, Code 128, Code 93, Code 2/7, Code 3/5, 3/9 family, MSI, DELTA A IBM
<b>LASER CLASSIFICATION</b>	VLD - Class II

\*The radio range depends on the environment's characteristics



### Accessories



Single cradles and 4-slot transceiver/charger



Rubber Cover



Belt Holster



Functional Case