

Professional Hand-Held Terminal



Mobile Computers

General Description

The Formula Color™ professional mobile computer has been designed to satisfy a wide range of data collection tasks in retail environments.

Formula Color™ offers operators compact-sized ergonomics combined with a very intuitive user interface, which includes the “green spot” (Datalogic patent application), providing “good read” feedback directly on the code, where the user usually tends to be looking.

Furthermore, the large, bright, easy-to-read color display is ideal for indoor/outdoor use and helps users work more efficiently, while the practical 30-key “mobile phone-like” keypad allows data, codes and descriptions to be input very quickly.

The best performance in barcode data capture is granted by Formula Color’s™ miniature scanning engine, providing a very bright laser beam and great reading results on any kind of code or surface.

In addition, to support long-term scan-intensive warehousing operations, Formula Color™ takes advantage of a removable/rechargeable Li-ION high power battery pack. Fast data computing is performed by the powerful hardware platform, based on PC technology, supported by the oversized standard memory: 8 MB Ram + 8 MB Flash that can be upgraded to 512MB through a standard compact flash memory card.

The integrated Wi-Fi card for Wireless standard IEEE802.11b communication, allows Formula Color™ to access any Wi-Fi compliant WLAN infrastructure and be immediately on line with any WMS through the DL-TCL™, Datalogic’s terminal emulator software that supports both VT100/220 and IBM5250 standards.

Formula Color™ also offers a large selection of peripherals and accessories, including the single/4 slot serial cradle, the modem cradle and the 4 slot battery charger. It is compatible with most of Datalogic’s software tools, such as DL Mobile Configurator™, DL Keep Connecting™, DL TN Link™, DL Web-Link™ and MCL Collection™ Suite for programming, monitoring and configuration operations.

Features

- > Bright, easy to read color display
- > Datalogic “Green spot” (patented)
- > WLAN IEEE802.11b (Wi-Fi) communication
- > 8 MB Ram + 8 MB Flash Memory
- > Compact, lightweight and robust
- > Long lasting Li-ION battery pack

Applications

- > Warehouse management
- > Goods shipping/receiving
- > Inventory
- > Picking
- > Shelf replenishment
- > Shelf price verification

Specifications

PHYSICAL CHARACTERISTICS

DIMENSIONS	179 x 63 x 46 mm / 7 x 2.5 x 1.8 in
WEIGHT	360 g / 12.7 oz (with battery)
LIGHT SOURCE	Visible laser diode
OPERATING TEMPERATURE	0 °C to +50 °C (32 °F to 122 °F)
DROP RESISTANCE	Resists drops from 1.5 m (5 ft) onto a concrete surface
ENVIRONMENTAL PROTECTION	IP64
DISPLAY	High-contrast graphic color LCD with 128 x 144 pixels resolution; LED backlight feature; keyboard controlled contrast
SCREEN FORMAT	16 lines x 21 char. standard (other screen format available with custom fonts)
POWER	Removable battery pack with rechargeable Li-ION batteries; Optional battery container for AA size alkaline batteries; Supercapacitor to back-up system RAM during battery pack change; Lithium back-up to preserve set-up data
KEYBOARD	30 alphanumeric key silicon rubber keypad
PROCESSOR	True 32 bit 486, 32 MHz
OPERATING SYSTEM	Datalogic proprietary BIOS; Datalight ROM DOS 7.0
SYSTEM MEMORY	8 MB RAM, 8 MB Flash; RAM for system operation and virtual-disk data storage
FLASH	Non-volatile memory for virtual disk-storage of applications and data files, 384KB dedicated to DOS and BIOS

PERFORMANCE

SCAN RATE	50 scans/sec ± 6
MINIMUM RESOLUTION	0.13 mm / 5 mils
DEPTH OF FIELD	3 to 70 cm, depending on bar code thickness
READING ANGLES	±65° skew; ±55° pitch
BAR CODES	EAN 8, EAN 13, UPC/A-E, MSI, Code 3/9 Standard-Extended, Code 2/5 Interleaved-Matrix-Industrial, Codabar, Code 128, Code 93, Italian Pharmaceutical

SERIAL COMMUNICATION

SERIAL COMMUNICATION	Integrated IrDA communication port; RS232 via F-Color Transceiver/Charger
DATA RATE	Up to 115 Kbps

RF DATA COMMUNICATION

WIRELESS COMMUNICATION	IEEE802.11b (Wi-Fi) Output 100 mW; internal antenna
AUTONOMY (batch)	> 6500 readings (> 36 hours with reading every 20");
AUTONOMY (Wi-Fi)	> 3000 readings (> 16 hours with reading every 20"); Lithium back-up to preserve set-up data

Accessories



Single Cradle/Modem Cradle



Multiple Cradle



Multiple Battery Charger



Functional Case