

# Formula™

## HAND HELD

## HIGHLIGHTS

### > READY TO USE

Users can leverage ready made software applications and management tools to tailor fit Formula™ to any enterprise. Pre-loaded Asset and Inventory Management applications include functionality for reading codes, inputting data and transferring information. Simply recompiling custom applications makes the Formula™ a drop-in replacement for legacy installations

### > LIGHTWEIGHT AND HANDY

A compact lightweight device at 206g (7.3 oz), including standard battery, the Formula™ comfortably rides in a pocket. The device shape provides convenient single-handed operation with easy access to all keyboard functions. A clear display with adjustable display brightness grants readability in a wide range of lighting conditions

### > STATE OF THE ART

The Formula™ leverages an integrated laser barcode scanner to deliver fast and reliable data capture performance. Industrial connectors transmit data via USB and Serial (RS232). Bluetooth® wireless technology provides a third communication option

### > ROBUST

The Formula™ provides an industrial product specifically tested for long term use and reliability. The terminal survives repeated 1.2m (4ft) drops to concrete. IP54 sealing resists damage that can be caused by exposure to a wet or dusty environment. Formula™ operates in a temperature range of 0 to 50 °C (32 to 122 °F), making it ideal in most light industrial facilities

### > ALL-IN-ONE PACKAGE

The Formula™ ships ready to use in a single box together with a standard battery. Plug adapters quickly modify the power supply from a USA plug to Australian, European, and United Kingdom based outlets. A mini-USB cable ensures easy initial setup and data communication

## FEATURES

- > Outstanding ergonomics, perfect for applications that require one-hand operation
- > Pre-loaded PALPRO Asset and Inventory Management applications
- > Mature platform that assures investment protection
- > USB or RS232 direct connectivity minimizes cost
- > Optional Bluetooth® V1.1 wireless technology
- > 16 lines x 16 characters backlit LCD display compatible with legacy Formula applications
- > Laser data capture performance
- > Intuitive keyboard with programmable function keys and navigation keys
- > Light weight with 1.2 m (4 ft) drop resistance and IP54 protection class

## APPLICATIONS

- > Inventory
- > Shelf replenishment
- > Price management
- > Order entry
- > Assisted sales
- > Asset Tracking



USB

RS232

Li-Ion  
Battery

## > PHYSICAL CHARACTERISTICS

DIMENSIONS	152 x 55 x 40 mm (5.98 x 2.17 x 1.57 in) (maximum)
WEIGHT	206 g (7.3 oz) incl. standard battery
DISPLAY	Ultra-bright LCD with backlight; 16 lines x 16 characters
KEYBOARD	Numeric with 25 silicon rubber keys (4 navigation keys + 4 function keys)
OPERATING TEMPERATURE	0 to 50 °C (32 to 122 °F)
STORAGE TEMPERATURE	-20 °C to 70 °C (-4 °F to 158 °F)
DROP RESISTANCE	Resists drops from 1.2 m (4 ft) onto concrete
ENVIRONMENTAL SEALING	IP54 standard for water and dust resistance

## > SYSTEM

OPERATING SYSTEM	Datalogic proprietary
MICROPROCESSOR	8 bit CMOS
SYSTEM RAM MEMORY	1024 KB RAM for data
SYSTEM FLASH MEMORY	512 KB Flash dedicated to the application program
EXPANSION SLOTS	Secure Digital (user accessible)
SIGNAL TO OPERATOR	4 LED; magnetic buzzer programmable frequency and duration
CLOCK/CALENDAR	Quartz controlled RTC; programmable date and time
POWER SUPPLY	Removable battery pack with rechargeable Li-Ion batteries; 3.7 V 1100/2000 mAh (4.07/7.40 Watt hours); alkaline batteries compatible. Local customized connector for fast battery charging

## > COMMUNICATIONS

INTERFACES	Electrical: integrated RS232 up to 115.2 Kbps USB: integrated high speed USB and mini USB connector (USB 1.1)
PERSONAL AREA NETWORK (PAN)	Bluetooth® wireless technology V1.1+EDR (optional)

## > READING OPTIONS

### LASER CHARACTERISTICS

SCANNING RATE	104 ± 12 scan/sec
MINIMUM RESOLUTION	0.10 mm / 4 mils
DEPTH OF FIELD	5 to 90 cm (2 to 35 in), depending on bar code density
BAR CODES	GS1 Databar, EAN13, EAN128, UPC/A-E, 2/5 family, Code 128, Code 93, Code 2/7, 3/9 family, MSI, Delta A IBM, Codabar (NW7), PAKO, Zellweger, Storagetek
LASER CLASSIFICATION	VLD - Class 2/II EN 60825-1/CDHR

## > SOFTWARE

**PALPRO ON BOARD APPLICATIONS:** Asset Manager (AssetPro), Inventory Manager (InvPro)

**SYSTOOLS™:** Terminal manager; Ready-to-use-applications: Code + Quantity, EAN 128 Three Field, Assisted Sales, Listed Picking and Inventory; Standard communication mode with default record format and selectable data; Enhanced communication mode for customized record formats and item level data checks with selectable data transmission

**SOFTWARE DEVELOPER'S TOOLKIT (SDK):** ANSI C (Keil Compiler for use in MS-DOS environment purchased separately), OLE for Formula library for Excel, Access, or Visual Basic

**EASYGEN:** Application generator, icon-based graphic interface and PC simulation

# ACCESSORIES



Caution: Laser Radiation - do not stare into beam



Single Slot Cradle with Spare Battery Slot



Holster



Keil Compiler

Please refer to user manual available at [www.mobile.datalogic.com/manuals](http://www.mobile.datalogic.com/manuals) for information on product use limitations.  
For more information and software downloads see: [www.mobile.datalogic.com/formula](http://www.mobile.datalogic.com/formula)