

## Preliminary Specification



# ScanPal® 2 RF

### Features

- Coverage of approximately 200M
- CCD or Laser Scan Engine
- 1MB Flash memory for programs
- 128 x 64 dot graphic LCD display (backlit)
- Application generator and download software
- Over 20 hour battery charge
- Up to 15 units can be operated from one base station



**The ScanPal 2 RF 8100** is the new radio frequency version of the successful ScanPal 2 portable data collection terminal. Working in conjunction with its base station, the ScanPal 2 RF is capable of transmitting data over a distance of 200m (line of sight). Also offering an ability to run 15 terminals on one base station the unit offers economic high performance RF data collection in all warehouse and logistics based applications including, work in progress, tracking, shop floor management, asset tracking, meter reading and distribution based activities.



The CCD or laser scan engine equipped ScanPal 2 RF is supported by a comprehensive set of development tools, including 'C', 'Basic' and a Windows-based application generator.

### Accessories:

- Download/charger cradle
- Dual battery pack charger (incl. power supply)
- Protective case
- 'Basic' & 'C' development tools



# ScanPal® 2 RF

## Preliminary Specifications

### RF TERMINAL

|              |                          |
|--------------|--------------------------|
| Frequency    | 433 MHz                  |
| Modulation   | FSK                      |
| Data rate    | 9600 bps                 |
| Channels     | 4                        |
| Output power | 10 mW                    |
| Coverage     | 200 metres line of sight |
| Compliance   | EN 300 220               |

### BASE

|                        |                                   |                          |    |
|------------------------|-----------------------------------|--------------------------|----|
| Frequency              | 433 MHz                           |                          |    |
| Interface              | RS 232                            |                          |    |
| Base baud rate         | 115,200 bps                       |                          |    |
| Base to base           | RS 485                            |                          |    |
| Maximum bases/system   | 16                                |                          |    |
| Maximum terminals/base | 15                                | Maximum terminals/system | 45 |
| Output Power           | 10 mW                             |                          |    |
| Coverage               | 200 metres line of sight          |                          |    |
| Compliance             | EN 300 220                        |                          |    |
| Dimensions             | 145mm (L) x 63 mm (W) x 42 mm (H) |                          |    |
| Weight                 | 210 g (including batteries)       |                          |    |

### OPERATIONAL

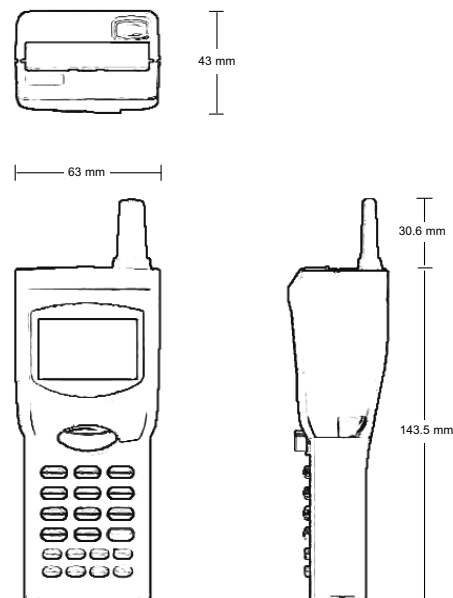
|                      |                                                                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU                  | 16-bit CMOS, low power consumption                                                                                                                                                                      |
| Program memory       | 1 MB flash memory                                                                                                                                                                                       |
| Data memory          | 256 Kb SRAM                                                                                                                                                                                             |
| Display              | 128 x 64 graphic dots FSTN with LED back-lit                                                                                                                                                            |
| Keypad               | 21 rubber keys                                                                                                                                                                                          |
| Indicator            | Buzzer – Programmable, 1 KHz to 4KHz<br>LED – Dual-colour, green and red                                                                                                                                |
| Laser Scanner        | Light source – Visible Laser diode operating at $670 \pm 15$ nm.<br>Scan rate – $36 \pm$ scans/sec Scan angle – $42^\circ \pm$ nominal<br>Depth of field – 5 cm - 95 cm, depends on bar code resolution |
| CCD Range            | Resolution – 0.125 mm - 1.00 mm<br>Depth of field – 3 cm - 16 cm (for 0.33 mm label)<br>Scan rate – 100 scans/sec                                                                                       |
| Communication        | RS-232 – Transmission speed up to 115.2k bps                                                                                                                                                            |
| Programming Language | 'C', 'BASIC', and a Windows-based Application Generator                                                                                                                                                 |

|                       |                                     |
|-----------------------|-------------------------------------|
| Operating Temperature | -20°C to 60°C                       |
| Storage Temperature   | -30°C to 70°C                       |
| Humidity              | Non-condensing 5 % to 95 %          |
| Shock resistance      | 1.2m drop onto concrete             |
| EMC regulation        | FCC class-A, CE and C-Tick approved |

RS232 cable, Download/charger cradle, RF base station, Dual battery pack charger, Protective case, Mounting bracket

Specifications subject to change without notice.  
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### Dimensions



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