

## Ergonomic Styling for the Ultimate in Performance - Designed and built using Human-Centered Design Processes -



- Innovative case design and advanced software and hardware technologies ensure easy and comfortable scanning.
- Wireless communications via Bluetooth
- IP54 level dust and water-splash proof in compliance with IEC60529 and drop tested to concrete.
- Built-in high fidelity speaker to enable voice-based guidance to reduce operator error and fatigue.
- 2.4-inch QVGA transreflective color LCD screen displaying graphics and text in superb clarity.
- Microsoft Windows CE 5.0 operating system for industry standard compatibility with development tools and enterprise infrastructures.





**SPECIFICATIONS**

<b>CPU</b>	Marvell Xscale Processor PXA270 runs at 416MHz (maximum)
<b>OS</b>	Microsoft Windows CE 5.0 English Version
<b>Memory</b>	
<b>RAM</b>	64MB (User area approx. 40 MB)
<b>F-ROM</b>	64MB (User area approx. 29 MB)
<b>Display</b>	
<b>Type</b>	2.4-inch transfective TFT color LCD
<b>Resolution</b>	240 x 320 dots, 65,536 colors
<b>Backlight</b>	LED
<b>Indicator</b>	3-color (red, orange, green) LED x 1, 2-color (orange, blue) LED x 1
<b>Input</b>	
<b>Keyboard</b>	Numeric (Alphabet) keys, CLR key, Execute key, Cursor keys, Power key, Fn key, F1 to F8 keys, Trigger center key, Trigger L/R keys 3 (at center, left, and right)
<b>Trigger key</b>	
<b>Barcode scanner</b>	
<b>Type</b>	CMOS Imager
<b>No. of scannings</b>	200 scans per second
<b>Resolution</b>	0.127mm
<b>Readable distance</b>	60 to 300 mm
<b>Readable symbologies</b>	EAN8, EAN13, UPC-A/E, Codabar(NW-7), CODE39, CODE93, CODE128/EAN128, ITF, MSI, IATA, Industrial 2of5, RSS-14, RSS Limited, RSS Expanded, RSS-14 Stacked, RSS Expanded Stacked
<b>Interface</b>	
<b>Bluetooth®</b>	Bluetooth Version 2.0 compatible
<b>Infrared</b>	IrDA 1.3 compatible (Maximum : 4 Mbps) Communication range 0 to 30 cm
<b>Speaker</b>	Built-in (monaural) as standard
<b>Microphone</b>	Built-in (monaural) as standard
<b>Vibrator</b>	Comes as standard

<b>Power</b>	
<b>Operation</b>	Lithium-ion battery pack (HA-F20BAT), Large-capacity battery pack (HA-F21LBAT)
<b>Memory backup</b>	Lithium battery (rechargeable) on board
<b>Battery capacity</b>	HA-F20BAT 1,100 mAh
<b>Operating period</b>	HA-F21BAT 1,880 mAh
<b>Memory back up period</b>	RAM : Approx. 10 minutes, Built-in Clock : Approx. 72 hours or longer (with memory backup battery)
<b>Environment</b>	
<b>Operating temperature</b>	14 F to 122 F
<b>Storage temperature</b>	-4 F to +140 F
<b>Operating humidity</b>	10% to 80%RH (no condensation)
<b>Storage humidity</b>	5% to 90%RH (no condensation)
<b>Dust/Water-splash proof</b>	IP54 level (compliant with IEC60529 standard)
<b>Drop durability</b>	1.0 m in height onto concrete floor
<b>Dimensions and weight</b>	
<b>Dimensions</b>	Approx. 52.5 (51.0*) (W) x 166 (D) x 23.5 (30.5*) (H) mm
<b>Weight</b>	Approx. 145g (with standard battery pack)
<b>Application development tool</b>	eMbedded Visual C++ 4.0, Visual Studio .NET 2005
<b>Compliance</b>	
<b>Safety</b>	EN60950-1
<b>EMI</b>	EN55022, EN61000-3-2, EN61000-3-3
<b>Bluetooth type approval</b>	EN300328/EN301489-17 Bluetooth logo certification

\* the figure indicates the grip part.

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