

CASIO® IT-3000

Versatile industrial data
terminal with **high speed**
integrated printer, optional
C-MOS imager and optional
magnetic card reader



CASIO® IT-3000

Rugged, remote computing and printing in one machine

- **High speed thermal printer**, capable of printing up to 28 lines per second on 58mm or 80mm paper rolls
- **Rugged and durable** - drop tested from 1.2 metres to concrete, sealed against water and dust to IP54 rating and capable of operating in temperatures from -20°C to 50°C
- Easy operation with **large, 3.5 inch colour LCD touch screen** and backlit keyboard
- **C-MOS imager** for scanning 1D/2D symbologies and image capture (IT-3000M55E/ 56E models)
- **Magnetic card reader** with ISO7811 for reading data on tracks 1, 2 and 3 (IT-3000M54E/ M55E models)
- Built in **Bluetooth™** and **IrDA** for wireless communications
- **PC card slot** allows the integration of WLAN or GPRS cards to further enhance communication capabilities

All you need in the one machine

The IT-3000 eliminates the need to carry external printers and scanners, combining all the mobile work force needs into one machine.

An integrated thermal printer included on all models, with a magnetic card reader version available (IT-3000M54E/M55E models) and a C-MOS imager model available (IT-3000M55E/ 56E models).

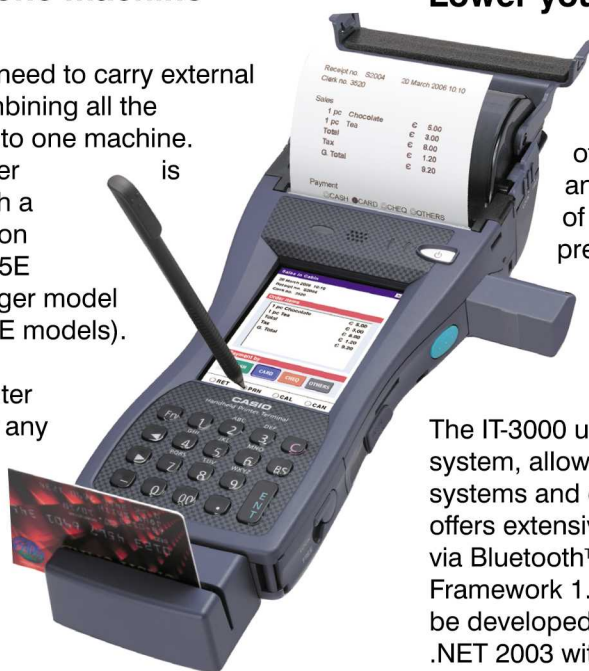
The integrated thermal printer makes the IT-3000 ideal for any industry that needs to issue receipts, such as mobile sales, queue busting, travel ticketing, meter reading, parking enforcement and field service operations.

Lower your total cost of ownership

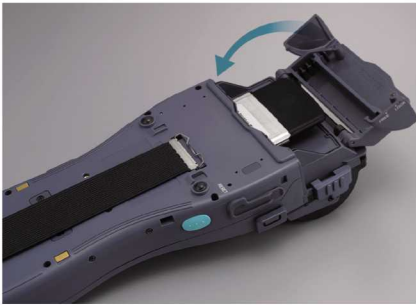
The IT-3000's integrated options lower the total cost of ownership and increases the productivity and reliability of the solution, reducing human error and significantly improving the efficiency of operations, particularly ones that were previously manual.

Microsoft Windows CE.NET operating system

The IT-3000 uses the Windows CE .NET 4.1 operating system, allowing you to connect information, people, systems and devices together. Windows CE .NET offers extensive support for wireless communications via Bluetooth™, WLAN and WAN. The .NET Compact Framework 1.0 is fully supported and applications can be developed using eVC++ 4.0 and Visual Studio .NET 2003 with either VB .NET or C#.



Wide range of interfaces for communication and expandability



A secure, internal PC card slot (Type I/II) makes WLAN or GPRS communication possible. By installing a third party card in the PC card slot, the IT-3000's communication capabilities are enhanced. When a GPRS card is installed, the device

is perfect for all mobile requirements such as route accounting and mobile sales.

The integrated Bluetooth™ module enables wireless communications with a wide range of third party peripherals such as mobile phones. In addition, an 8-pin serial port (not available on IT-3000M55E/ 56E models) and 14-pin serial interface is also available for connection with external devices.

When large amounts of data need to be stored, the internal SD memory card slot makes this easy.

Ergonomic design with simple paper loading function



The built-in thermal printer uses a simple one-step paper loading method. The user simply places a paper roll inside the paper roll holder, pulls out 2 or 3cm's and then closes the cover. This simple method saves time and hassle and means that the paper will always load correctly even in the field.



The IT-3000 supports both 58mm and 80mm paper rolls of up to 24 metres long, allowing a large amount of information to be printed.

For comfortable operation all day, the IT-3000 weighs under 700 grams and comes with an elastic hand strap. This is secured to the back of the unit and enables the user to securely hold the IT-3000 without having to grip too tightly, reducing the risk of drops and increasing user comfort.

Sturdy construction for rough handling in severe environments

The IT-3000 has been designed and built for rugged reliability. The terminal, including the printer and paper roll holder (with the splash protector), complies with the IP54 rating (the International Standard IEC529) for dust and water-splash protection.



It has been drop tested from a height of 1.2 metres to concrete and can operate in temperatures between -20°C and +50°C. The IT-3000's rugged construction enables it to survive rough handling and give trouble free use over prolonged periods in tough environments.

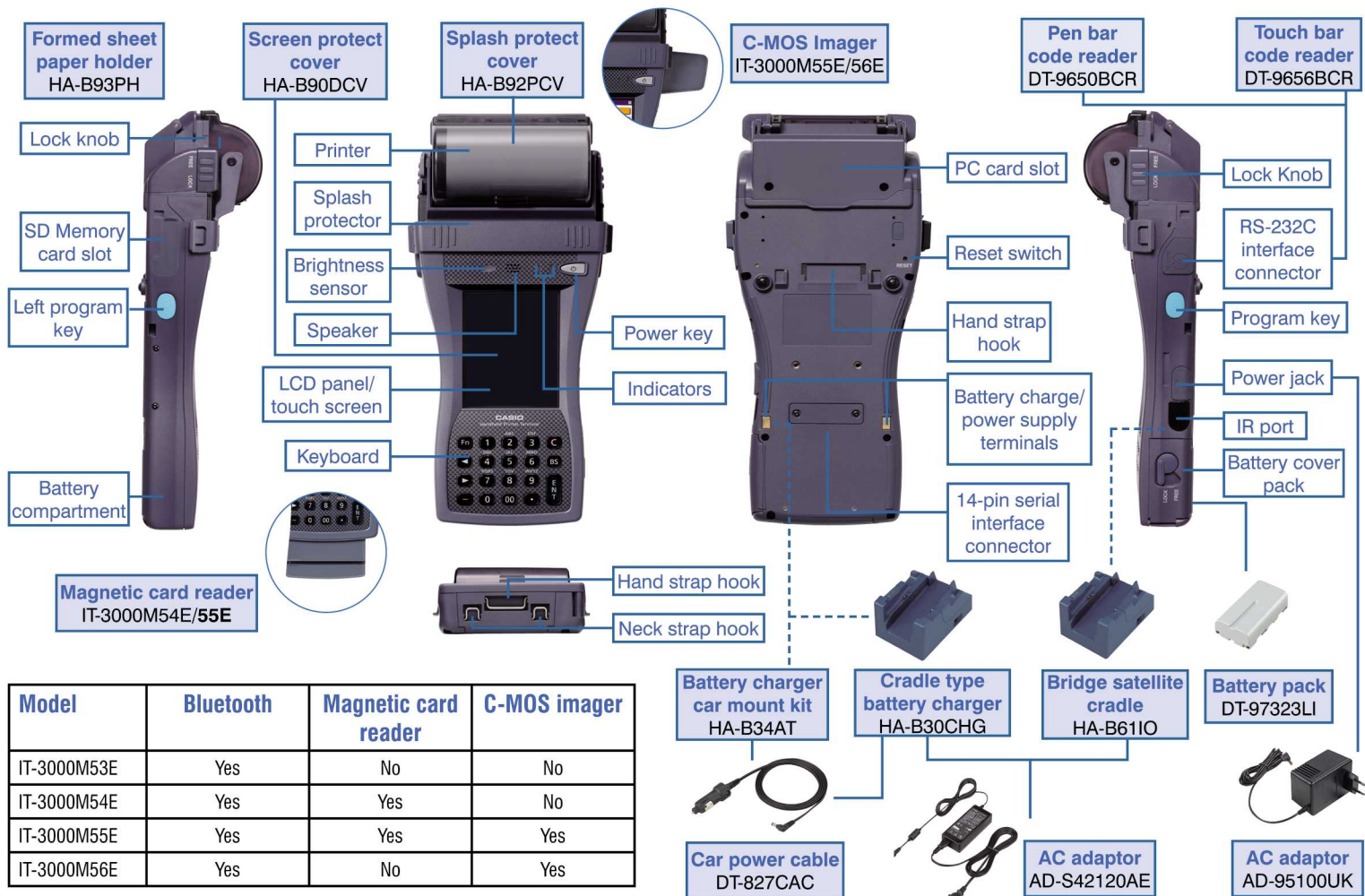
Easy to operate with bright LCD screen and back-lit keyboard

The IT-3000 features a 2-way TFT colour LCD (240 x 320 dots) screen which improves visibility during outdoor use. Unlike conventional transparent LCD's, the IT-3000's screen uses CASIO's proprietary optical film to effectively reflect incoming light that is normally dispersed. This gives the screen display vivid clarity in both indoor and outdoor environments.

The IT-3000 also features a large backlit keyboard. This is automatically controlled by a brightness sensor for optimum visibility irrespective of lighting conditions.



IT-3000 - General Information



Model	Bluetooth	Magnetic card reader	C-MOS imager
IT-3000M53E	Yes	No	No
IT-3000M54E	Yes	Yes	No
IT-3000M55E	Yes	Yes	Yes
IT-3000M56E	Yes	No	Yes

IT-3000 - Specifications

CPU	Intel® PXA255 Application Processor (Max 400MHz)
OS	Microsoft® Windows® CE.NET 4.1 English Version
Memory	
RAM	64MB
F-ROM	96MB (User area: Approx. 30MB)
Display	
Type	3.5 inch 2-way TFT colour LCD
Resolution	240 x 320 dots
Backlight	LED (Automatic control via brightness sensor)
Indicator	2-colour LED x 2
Printer	
Printing method	Thermal line dot
Paper width	80mm or 58mm
Speed	28 lines per second
Paper	Roll paper, formed paper (1P/2P), label paper
Total number of print dots	576 (if printed on 80mm width paper)
Character size	Free double-width characters
Font size	ANK, Symbolgies (UPC-E, NW-7, Code39, Code128, OCR-B, user-defined characters x 128)
Sensor	Positioning for printing
C-MOS Imager (IT-3000M55E/ 56E)	
Type	1/4 inch C-MOS Imager
1D readable symbologies	EAN, UPCA/E, Code39, NW7/Codabar, ITF, Code93, Code128, MSI/Plessey, IATA, Code11, RSS
2D readable symbologies	Code49, PDF417, MicroPDF, Codablock, Aztec, AztecMesa, QRCode, MaxiCode, DataMatrix (ECC000/050/080/100/140/200), composite
Image capturing	Max. 640 x 480 pixels, 2 or 256 grey scales, BMP or JPG
Magnetic Card Reader (IT-3000M54E/55E)	
Standard	ISO tracks 1, 2, 3
Input	
Keyboard	Numeric (Alphabet) keys, double zero key, CLR key, ENT key, cursor keys, Power key, Fn key, - key, (Decimal) key
Program key	Right and left sides
Touch panel	Plastic panel (resolution 240 x 320 dots) with character input pad

Interface

Bluetooth
Infrared
Serial
14-pin Serial
SD slot
PC card slot

Speaker

Alarm
Voice
Key click

Power

Operation
Memory backup
Charge time

Environment

Operating temp.
Storage temp.
Operating humidity
Storage humidity
Dust/ water proof
Drop durability

Dimensions and weight

Dimensions

IT-3000M54E - Approx. 80*/108** (W) x 265 (H) x 28*/68** (D) mm
IT-3000M55E - Approx. 80*/108** (W) x 295 (H) x 28*/68** (D) mm
IT-3000M56E - Approx. 80*/145** (W) x 295 (H) x 28*/68** (D) mm
IT-3000M55E - Approx. 80*/145** (W) x 265 (H) x 28*/70** (D) mm
* - display section, ** - printer section (Dimensions exclude protruding parts).

IT-3000M53E - 635g, M54E - 680g, M55E - 700g, M56E - 655g

eMbedded Visual C++ 4.0, Visual Studio .NET 2003

Weight

Application dev. tool

Compliance

Safety

EMI, EMC

Bluetooth type

approval

Bluetooth™ Version 1.1 compatible
IrDA 1.1 compatible Max 4 Mbps (under CASIO original protocol)
RS-232C level interface (M53E, M54E)
RS-232C level interface
SD memory card
PC card Type I/II (3.3V/5.0V) 3.3V; Max 500mA, 5.0V; Max 1000 mA

70 dB or over
60 dB or over
50 dB or over

Lithium-ion battery pack (DT-9723LI) 7.4V 2200 mAh
Lithium battery (rechargeable) on board
Approx. 8 hours with DT-9723LI

-20°C to +50°C
-20°C to +70°C
10% to 80% RH (no condensation)
5% to 90% RH (no condensation)
IP54
From 1.2 metres in height onto concrete

EN60950, UL60950
EN55022/ EN55024, FCC Part 15B
EN300328/ EN301489, FCC Part 15C, RSS-210
Bluetooth logo certification

- Microsoft, Windows and Windows logos are the registered trademarks of Microsoft Corporation
- Bluetooth is a trademark owned by Bluetooth SIG, Inc. USA and has been used in accordance with a license acquired by CASIO.
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- Specifications in the table above are current as of March 2006 and may change without any advance notice.