



## Ergonomic Styling for the Ultimate in Performance

- Designed and built using Human-Centered Design Processes -



### 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>	
RAM	64MB (User area; approx. 40MB)
F-ROM	64MB (User area; approx. 29MB)
<b>Display</b>	
Type	6.1cm (2.4 inches) transfective TFT color LCD
Resolution	240 x 320 dots, 65,536 colors
Backlight	LED
Indicator	3-color (red, orange, green) LED x 1, 2-color (orange, blue) LED x 1
<b>Input</b>	
Keyboard	Numeric (Alphabet) keys, CLR key, Executable key, Cursor keys, Power key, Fn key, F1 to F8 keys, Trigger Center key, Trigger L/R keys
<b>Laser Scanner (model dependant)</b>	
Type	Semi-conductor laser light
Resolution	0.127mm
Readable distance	40 to 400 mm
Readable symbologies	EAN8, EAN13, UPC-A/E, Codabar(NW-7), CODE39, CODE93, CODE128/GS1-128 (EAN-128), ITF, MSI, IATA, Industrial 2of5, GS1 DataBar Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded, GS1 DataBar Stacked, GS1 DataBar Expanded Stacked
<b>CMOS Imager (model dependant)</b>	
Type	C-MOS imager, 752 x 480 (wide VGA), monochrome
Aimer	Laser 650+10/-5nm, 1mW or less
Resolution	1D: 0.15mm (depth at 70 to 105 mm) 2D Stacked: 0.168mm (depth at 60 to 115mm) 2D Matrix: 0.25mm (depth at 80 to 120mm)
Readable symbologies	1D: EAN8, EAN13, UPC-A/E, Codabar(NW-7), CODE11, CODE39, CODE93, CODE128/GS1-128 (EAN-128), Interleaved 2of5, MSI, IATA, GS1 DataBar Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded 2D Stacked: PDF417, Micro PDF, CODE49, Composite, Codablock F, TLC39, GS1 DataBar Expanded Stacked, GS1 DataBar Stacked 2D Matrix: Aztec, DataMatrix, Maxicode, QR Code

<b>Interface</b>	
Bluetooth®	Bluetooth® Version 2.0+EDR compatible
Infrared	IrDA 1.3 compatible (maximum: 4Mbps) Communication range: 0 to 30cm
WLAN (DT-X7M10R2, M30R)	Compliant with IEEE802.11b/g standard (maximum: 54Mbps) Security: WPA, WPA2 Encryption: WEP, TKIP, AES Authentication; 802.1x (PEAP, EAP-TLS, etc.)
<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>	
Operation	Battery pack (HA-F20BAT) Large-capacity battery pack (HA-F21LBAT)
Memory backup	Lithium battery (rechargeable) on board
Battery capacity	HA-F20BAT 4.07Wh (1,100mAh), HA-F21LBAT 6.95Wh (1,880mAh)
Memory back up period	RAM: approx. 10 minutes, Built-in Clock: approx. 72 hours or longer (with only memory backup battery).
<b>Environment</b>	
Operating temperature	-10 to +50°C
Storage temperature	-20 to +60°C
Operating humidity	10 to 80%RH (no condensation)
Storage humidity	5 to 90%RH (no condensation)
Dust/Water-splash proof	IP54 level (compliant with IEC60529 standard)
Drop durability	1.5 m in height onto concrete floor (*: Assessment test with bumper attached.)
<b>Dimensions and weight</b>	
Dimensions	For Laser models; approx. 52.5 (51.0*) (W) x 166.0 (D) x 23.5 (30.5*) (H) mm For CMOS imager models; approx. 52.5 (51.0*) (W) x 169.0 (D) x 23.5 (30.5*) (H) mm
Weight	For Laser models; approx. 145g (with HA-F20BAT) For CMOS imager models; approx. 160g (with HA-F20BAT and bumper)
<b>Application development tool</b>	eMbedded Visual C++ 4.0, Visual Studio 2005, Visual Studio 2008, Casio Basic Development Kit
<b>Compliance</b>	
Safety	EN60950-1
EMC	EN301489-17
WLAN/Bluetooth®	EN300328 v1.7.1
SAR	EN50371
Laser	EN60825-1:2001

\*: the figure indicates the grip part.

- Innovative case design and advanced software and hardware technologies ensure easy and comfortable scanning.
- Wireless communications options via Bluetooth or Bluetooth and IEEE802.11b/g (model dependant) with advanced industry standard encryption and authentication.
- 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.
- 6.1cm (2.4 inches) QVGA transfective 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.

# The Revolutionary, Easy-to-Use Device from CASIO

CASIO has adopted the concept of Human-Centered Design based on the internationally recognized ISO13407 standard. This means that intensive research and analysis was undertaken to better understand the individual needs of the end user in order to perform their daily tasks effectively and efficiently.

## Improved Scanning Performance

The new DT-X7's innovative design allows users to aim the scanner at the correct angle first-time round for excellent scanning success. There are three easy-to-use, colored scanning trigger keys that ensure comfortable scanning regardless of how the user holds the device.

The DT-X7 scanner incorporates a variety of functions for optimum performance in all working environments. These advanced functions include a learning capability, scan width control, scan verification beam, and scanning success confirmation via a vibration alert, LED, and/or a buzzer.

The DT-X7 supports all the industry standard 1D and 2D bar code symbologies most widely used in the enterprise today. Models with the laser scanner are capable of reading 1D bar code symbologies, or models with the C-MOS imager are capable of not only reading 1D and 2D bar code symbologies but also capturing images.



## A Natural Fit in the Hand

The DT-X7 features a rounded and dimpled form that fits naturally in anyone's palm and allows the fingers to rest firmly in the groove on the back of the case. The dimpled texture on both sides improves the grip, and the device's center of gravity is positioned under the trigger center key. The keypad has been designed so that the most commonly used keys are all within easy reach of the user's thumb. The colored buttons can be programmed to enable easy and efficient navigation within applications. These design considerations deliver a perfectly balanced feel of the device in the hand and an outstanding user experience.



Center balance

## Toughness in Harsh Conditions

The DT-X7 offers outstanding performance in all sorts of environments including situations where rough handling is likely. It is dust and splash-proof (IP 54 level compliant with the IEC60529 standard), shock-resistant against drops to concrete from a height of up to 1.5 meters (with bumper attached) and can operate in temperatures between -10°C and +50 °C.



## Superior Wireless Communication

All models of the DT-X7 series have Bluetooth® integrated for wireless communication to devices such as belt printers and mobile phones. Models with the built-in WLAN module, compatible with IEEE802.11b/g standard, support AES in addition to WEP and TKIP for encryption and 802.1x (PEAP, EAP-TLS, etc.) for authentication. This makes security features such as WPA and WPA2 possible.



## Voice-based Guidance

The built-in high fidelity speaker combined with the Windows® CE 5.0 operating system enables voice sound output. Applications using voice-based guidance can be developed simply by producing the necessary voice files to lead users through operational procedures e.g. inspecting goods, and undertaking price checks. This means the user doesn't have to look at the screen every time for verification or instruction, reducing the strain caused by repetitive tasks, therefore increasing productivity. The DT-X7 can also be upgraded with the optional CASIO VoIP software. This powerful but simple tool allows real-time voice communication between users enabling them to quickly resolve queries with the minimum of interruption to their work-flow.

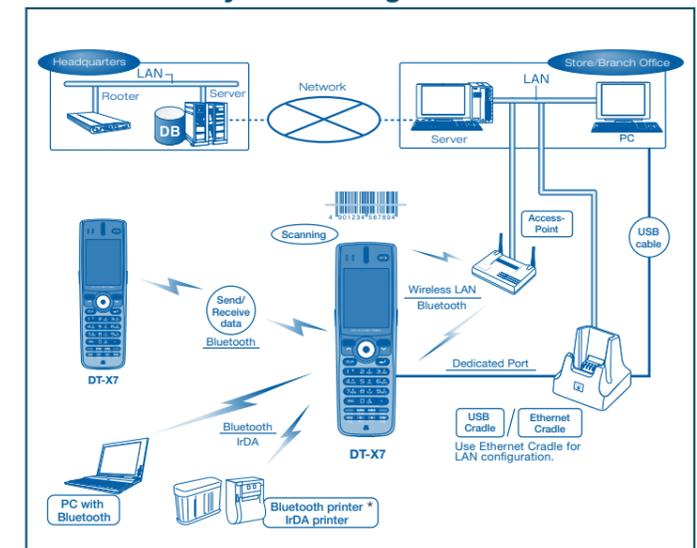


## High-Clarity LCD Screen

The DT-X7 features an ultra-legible 6.1cm (2.4 inches) QVGA transfective color LCD ensuring that information and images displayed on the screen are clear and easy to see. For example, the screen is of sufficient quality to show instant details, including images, of a product to educate store clerks not familiar with them.



## DT-X7 Series System Configuration



\*Recommended to thoroughly check the operability on each option available from other manufacturers before using with DT-X7.

## Microsoft® Windows® CE 5.0

The DT-X7 series comes with the Windows® CE 5.0 operating system. This widely used and reliable operating system has been developed specifically for industrial and enterprise devices, handheld scanners and PDAs. It offers excellent support for a wide range of development tools and ensures compatibility with the most common enterprise network infrastructures. Furthermore, CASIO's own Common Device Control Library allows developers to have fine control over the specific hardware features of the DT-X7 (Laser scanner, CMOS imager, Bluetooth, etc.).