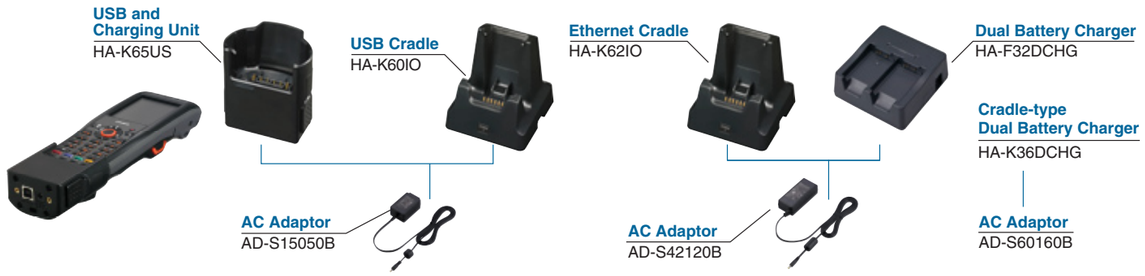
GENERAL GUIDE / OPTIONS



SPECIFICATIONS

		DT-X8-10E	DT-X8-20E
CPU		Marvell® PXA320 624MHz	
OS		Microsoft® Windows® Embedded CE 6.0 R3 English Version	
Durability	Drop Durability	3.0m	
	Dust/Splash-Proof	IP67 (compliant with IEC60529 standard)	
	OperatingTemperature	-20℃～50℃	
Memory	RAM	128MB	
	ROM	256MB(User area: Approx.160MB)	
Display	LCD	Blanview® TFT Color LCD with Touch Panel 5.9cm (2.7 inches) QVGA (240X320 dots)	
	Indicator	Indicator 1: Battery charging status Indicator 2: Scanning and wireless communication status	
Input	Keyboard	Numeric (Alphabet) keys, CLR key, execute key, cursor keys, power key, Fn key, F1 to F8 keys, L/R keys	
	Trigger Key	3 (at center, left, and right)	
	Touch Panel	Yes (Resistive type)	
Scanner	Type	Semi-conductor laser	C-MOS imager
	Resolution	0.127mm	1D:0.15mm Stacked:0.169mm Matrix:0.25mm
Wireless LAN	Standard	IEEE802.11b (Maximum:11Mbps), IEEE802.11g (Maximum:54Mbps)	
	Security	WPA2 / AES	
Interface	Bluetooth®	Bluetooth® Version 2.0+EDR compatible	
	Card Slot	microSD Memory Card (SDHC) x 1	
	USB Port	Version 1.1 (Host/Client)	
	Audio	Microphone: Built-in (monaural), Speaker: Built-in (monaural)	
Power	Main Power	Large-capacity lithium-ion battery pack(3.7V 2860mAH)	
	Memory Backup	Lithium battery (rechargeable) on board	
Vibrator		Comes standard	
External Dimensions (W×D×H)		Approx. 65.7 [57.4*] x 187.0 x 32.4 [35.0*] mm *The figure indicates the grip part.	
Weight		Approx. 280g (Including Large-capacity lithium-ion battery pack)	
Accessory		USB and Charging Unit (HA-K65US)/Battery Pack(HA-K23XLBAT)/ USB Cable(DT-380USB-A)/AC Adapter (AD-S15050B)/AC Cord (AC-CORD-EU) Hand Strap	

■DT-X8-10E

1D Symbologies	GS1 DataBar Omnidirectional,GS1 DataBar Truncated,GS1 DataBar Limited, GS1 DataBar Expanded,Code128/GS1-128 (UCC/EAN128), Code93, Code39, EAN8, EAN13,UPC-A, UPC-E, Codabar (NW-7), IATA, MSI, Interleaved 2of5 (ITF),Industrial 2 of 5
Stacked Symbologies	GS1 DataBar Stacked,GS1 DataBar Expanded Stacked

■DT-X8-20E

1D Symbologies	GS1 DataBar Omnidirectional,GS1 DataBar Truncated,GS1 DataBar Limited, GS1 DataBar Expanded,Code128/GS1-128 (UCC/EAN128),Code93, Code39, Code32, Code11,EAN8, EAN13, UPC-A, UPC-E,Codabar (NW-7), IATA, MSI, Interleaved 2 of 5 (ITF)
Stacked Symbologies	GS1 DataBar Stacked,GS1 DataBar Stacked Omnidirectional, GS1 DataBar Expanded Stacked,Code49, PDF417, Micro PDF, Composite, Codablock F, TLC39
Matrix Symbologies	Aztec, DataMatrix, Maxicode,QR Code, microQR

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CASIO
CASIO COMPUTER CO., LTD.
Tokyo, Japan

CASIO

DT-X8 Series

Industrial Handheld Terminal with Exceptional Durability

- Excellent durability: IP67 dust/splash-proof, withstands 3.0-meter drops and operates at sub-freezing temperatures down to -20ºC
- Designed in accordance with ISO 13407 human-centered design processes to realize maximum ease of operation
- 5.9cm (2.7 inch) Blanview® LCD delivers both superb visibility indoors and outdoors as well as low power consumption
- Equipped with IEEE 802.11b/g standard wireless LAN compatible with WPA2 security standards
- Equipped with Bluetooth® Version 2.0 (Class 2) to enable connection to mobile printers and other devices
- Loaded with a file system for protecting the data from being lost when the battery runs out
- Fitted with a slot for microSD and microSDHC cards to enable larger storage capacity

Powered by Windows® Embedded

Bluetooth®

Excellent Durability. Easy-to-Use, One-hand Operation.

The DT-X8 series of handheld terminals provides all the durability and performance features required for extremely demanding and tough work environments.

- Key configuration allows easy operation even when used with work gloves
- Elastomer protection to withstand drops from up to 3.0 meters
- Power-saving design to deliver long hours of operation
- Ergonomics developed using the ISO13407 Human-Centered Design process

The DT-X8 is durable enough for extremely demanding working environments; it is designed for maximum toughness and ease-of-use. It is symbolic of Casio's aims to introduce innovative and market-leading products for the industrial handheld sector.

Handheld Terminal DT-X8

Exceptional Toughness

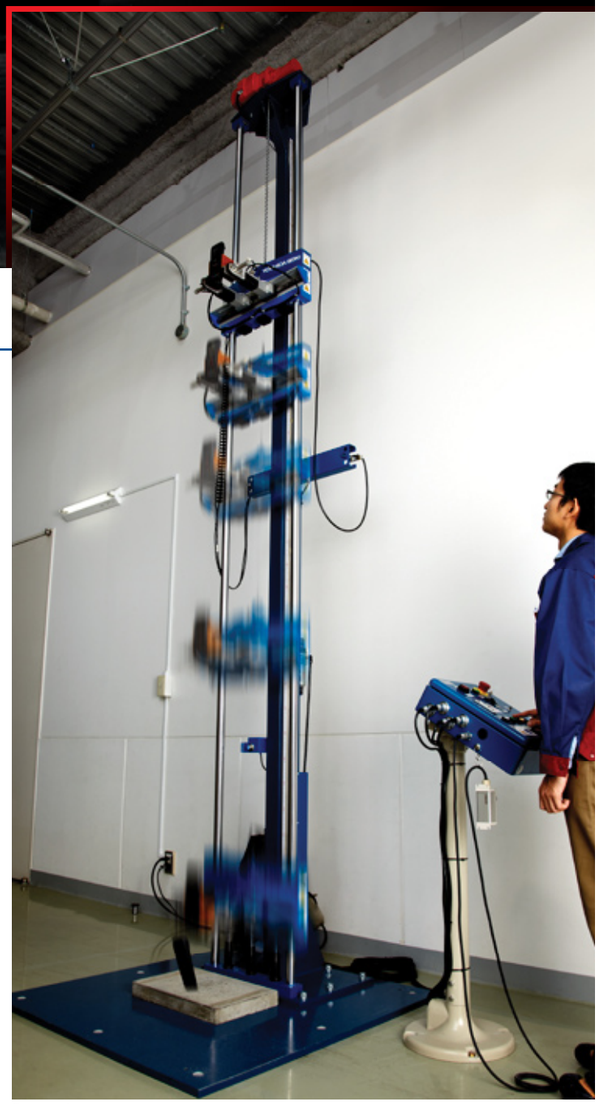
Excellent Environmental Durability, including a Drop Resistance of 3.0 Meters

The DT-X8 terminals have been designed to meet a drop resistance of 3.0 meters to concrete, ensuring that they can survive impacts from the kind of heights likely to be encountered in typical work environments such as warehouses. The terminal housing, the area surrounding the LCD, and the battery cover are reinforced with impact-absorbing elastomer resin to withstand the tough conditions typically found in warehouses and similar environments. The terminals meet the IP67* standard for moisture and particle resistance and operate at sub-zero temperatures down to -20°C. The DT-X8 provides reliable operation in a variety of demanding applications, including work outdoors in wet conditions and in dusty environments.

*No ingress of dust. No ingress of water even if temporarily immersed in water under defined conditions of pressure when all covers for connectors, etc. are closed.

Waterproof test

Dustproof test



Drop resistance test

Power-Saving Design to Deliver Long Operating Time

A unique power-saving design provides extended operation even in applications where a permanent wireless LAN connection is required. A newly developed, high-capacity battery delivers plenty of power and effective power management features, such as wireless standby mode*1 and quick resume,*2 ensure a very long battery life.

*1 A wireless LAN standby low-power state for operating only the functions needed to maintain a wireless LAN connection whilst shutting down the display and other devices.
*2 A feature for resuming normal operation from power-saving mode in response to a call from a wireless LAN. Since the LAN connection has been maintained, immediate availability of the LAN connection is possible.

Easy Operation

Key Design for Excellent Operating Performance

The key design allows easy operation even when the user is wearing work gloves. To reduce data entry errors, the keys have been enlarged and the responsiveness has been enhanced by widening the key pitch and key stroke. The terminal has an optimized key layout, with the trigger keys, cursor key, enter key, and other frequently used keys easily accessible for comfortable one-handed operation.

Highly Visible LCD, Even Outdoors

DT-X8 terminals are equipped with a 2.7-inch color Blanview® TFT LCD that features intuitive touch panel operation. This LCD provides excellent visibility indoors and in sunlight and has been designed to consume much less power than conventional LCDs, allowing the terminal to operate for longer on a single charge. Shock-absorbing material between the LCD panel and plastic touch panel dramatically increases the strength of the display, reducing damage from drops, impacts and other rough handling.

Smart Scanning

High-Performance Laser Scanner

Three trigger keys, one in the center and another on each side of the terminal, ensure efficient one-hand scanning. The terminal is equipped with functions for more accurate and rapid scanning, including scan width control, laser focus function, and vibrator alert function.

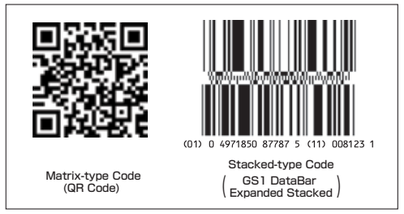
Scan Width Control
This feature controls the laser beam width to prevent incorrect reading of adjacent barcodes.

Vibrator Alert Function
In addition to the LED indicator and buzzer, a vibrator alert is also used to indicate a successful scan. This is useful for noisy environments or where there are several users in the same location.

Laser Focus Function
When multiple barcodes are scanned simultaneously, the scanned barcode is briefly highlighted with laser light to visually indicate to the user which barcode was decoded.

C-MOS Imager for 2D Barcode Reading

The DT-X8 series includes a model equipped with a C-MOS scanner capable of reading a wide variety of 1D and 2D barcode symbologies, including GS1 DataBar, the newest barcode standard. Careful CPU, memory and performance tuning ensure high-speed reading capability. The terminals incorporate a decode window centering function to scan only the desired area when barcodes are printed adjacent to each other. These user-friendly features combine to make barcode scanning as easy as possible.



Matrix-type Code (QR Code)

Stacked-type Code (GS1 DataBar Expanded Stacked)

Wireless Network

IEEE802.11b/g Wireless LAN

DT-X8 terminals have an integrated IEEE802.11b/g wireless LAN module and support the WPA2 secure wireless communications protocol. They also support 802.1x authentication (such as PEAP and EAP-TLS) and VoIP software for voice communication on a wireless LAN.

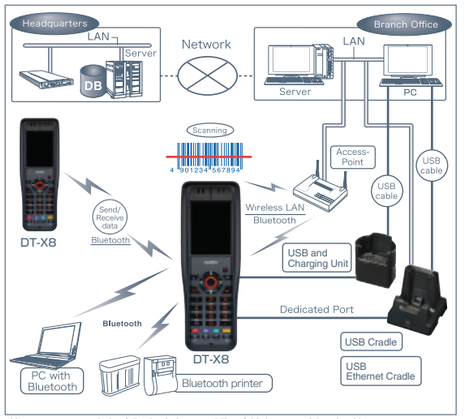
Equipped with Bluetooth® 2.0

Bluetooth® Ver. 2.0 (Class 2), for wireless connection with mobile printers and other devices, is integrated as a standard feature. Furthermore, the DT-X8 terminals come with the Enhanced Data Rate (EDR) function for high-speed communication. Note: The connected device must also support the EDR function.

Wireless Standby and Quick Resume

DT-X8 terminals incorporate features that support efficient wireless LAN operation. These include wireless standby mode for maintaining a low-power wireless connection for fast access to a wireless LAN and quick resume for restoring communication from the terminal to the LAN within a few seconds when it returns from suspend mode.

System Configuration



*You are recommended to fully check the operability of third party peripherals with DT-X8 before you deploy them.