CASIO DT-X100

Ultra Lightweight

Quick Data Capture in Shops and Warehouses

CASIO®

Lightweight and Easy to Handle

Ergonomic handheld device with powerful barcode reader

The Device at a Glance:

- Extremely lightweight: 165 g with standard battery
- Human-centred design
- Non-slip and ergonomic housing with three symmetrical scanning buttons
- High-speed laser scanner or CMOS imager
- Successful reading acknowledged acoustically, visually and via vibration
- Bright 2.4” colour display (QVGA: 240 x 320 pixels)
- Protection class IP54 and up to 1.5 m drop resistance
- WLAN IEEE 802.11 a/b/g/n and Bluetooth™ 2.1
- Marvell® PXA320 processor (806 MHz)
- Microsoft® Windows® Embedded Compact 7

Lightweight, Easy to Handle and Robust

The Casio DT-X100 impresses with high performance and ease of use. Its S-shaped design with a central balance point fits perfectly into the user’s hand. It has been optimised for one-handed operations and allows long working periods without causing fatigue. The scanner head is angled downwards to allow the hand to remain relaxed while scanning. The predecessor model DT-X7 – with the same exterior – received awards in “Top Produkt Handel” and “iF product design”.

Despite the low weight of only 165 grams, the handheld device is resistant to external influences. Its housing is made of an elastic plastic and can withstand drops onto concrete from a height of 1 m, rising to 1.5 metres if a bumper is fitted. The device offers protection against dust and splash water according to the IP54 protection class and operates at temperatures between -20°C to +50°C. Whether in a shop, warehouse or even outdoors, the DT-X100 has the ideal features to prove its worth in the long-term when used in tough working conditions.

High-speed Scanner or CMOS Imager

It depends on the application whether a laser scanner for barcodes or an imager for common 2D codes is required. Both reading modules are extremely high-performance. They can read multiple codes – even damaged ones – simultaneously at lightning speed. Good or bad reads are confirmed optically, acoustically and with vibration. This is useful in a noisy environment. Thanks to the increased range, the imager model has a clear laser aiming point. Three trigger buttons for the reading operation minimise the amount of finger movement. Due to the symmetrical arrangement of the buttons, the DT-X100 is just as easy for both right and left-handed users to operate.

A band-pass filter prevents the high-frequency flickering of LED lighting from interfering with scanning. Optimised decoding algorithms and an improved stabilisation process have also helped to further improve reading performance, even under modern shop lighting.

Easy-to-use keyboard with three large scanning buttons

The keyboard also follows the principle of human-centred design. The contact surfaces of the buttons are aligned with the thumb’s angle of impact.

Comfortable and effortless one-handed operation

The S-shaped design and the central balance point support flexible handling and is helpful for a relexed operation.

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For use in retail and logistics

The CASIO DT-X100 is equipped with a Marvell® PXA 320 processor (806 MHz) and plenty of memory. Its high-contrast colour display features LED-backlighting and offers a wide viewing angle (80 degrees in all directions). The operating system of the unit is Microsoft® Windows® Embedded Compact 7. It is extremely easy to integrate the mobile devices into existing applications and standard solutions. The combination of powerful hardware and a proven operating system means that the device represents a secure investment over many years and is suitable for a great number of applications.

Bluetooth® (2.1) and WLAN (IEEE 802.11 a/b/g/n) are integrated for a fast data communication. Contacts on the bottom of the housing can be used to connect to charging and docking stations (USB, Ethernet).

Fully equipped for use

The handhelds are available as standard with a laser scanner or imager. They can be used immediately along with their practical accessories. Innovative terminal management supports a fast and smooth roll-out.

Fast and effortless one-handed operation

With its high detection rate when scanning, bright display and robust and ergonomic product design, the easy to use handheld device sets a new standard for the retail sector.

Details, Options and Accessories

Model Overview:	DT-X100-10E	DT-X100-20E
Laser Scanner	•	
CMOS Imager		•
WLAN	•	•

Specifications:		DT-X100-10E	DT-X100-20E
Model Name		CASIO DT-X100 series	
CPU		Marvell® PXA320, 806 MHz	
Operating System		Microsoft® Windows® Embedded Compact 7 (english version)	
Memory	RAM	256 MB	
	ROM	512 MB	
Display	Size	2,4 inch (61 mm) diagonal	
	Resolution	240 x 320 pixels, QVGA, 65.536 colours	
	Technology	TFT colour LCD with LED backlight	
	2 LED Indicators	1: Battery charging status (red, orange, green) 2: Communication/ scan/ application status	
Input	Keyboard	10 numeric keys with phone keypad characters, 8 function keys (4 colored), Enter key, Cursor keypad, CLR key, ▲key, ▼key, On-/Off key	
	Scan Trigger	3 large scan release buttons (center, left and right)	
Wireless Communication	WLAN	IEEE 802.11 a/b/g/n (max. 65 Mbit/s), security standard and encryption WPA2/AES	
	Bluetooth™	Version 2.1 + EDR (max. 2,169.6 kbit/s date rate), backward compatible to version 2.0 and 1.2	
Interfaces	Infrared	SIR printer interface	
	USB Contacts	Version 1.1 (Host / Client), USB connection only with docking station	
Audio		Built-in microphone (mono) and speaker for signals and alarms etc.	
Vibrating Signal		Confirms successfully decoded ident codes	
Optoelectronic Ident Code Reader	Model	Scanner	Imager
	Type	Laser diode, scan rate approx. 100/s	CMOS Imager, 832 x 640 px
	Resolution	Barcodes: 0.127 mm Stacked: 0.127 mm	Barcodes: 0.15 mm Stacked: 0.168 mm Matrix: 0.25 mm
	Reading Distance	Approx. 40 to 550 mm	From a distance of a few millimeters to several meters, depending on size and print quality of the ident code
	Aimer	–	Laser beam 650 +10/-5 nm, 1 mW or less
	Readable 1D Symbologies	EAN-8, EAN-13, UPC-A, UPC-E, ITF 2/5-Interleaved, Codabar (NW-7), Code32, Code39, Code93, Code128, GS1-128 (UCC/EAN128), MSI, ISBT, GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Limited, GS1 DataBar Expanded und 2/5-Industrial (only laser scanner version)	
	Readable 2D Stacked-Codes (stacked 1D-Codes)	GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Expanded Stacked	GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Expanded Stacked, PDF417, Micro PDF, Composite, Codablock F
	Readable 2D Matrix-Codes	–	DataMatrix, Maxicode, QR-Code, Aztec-Code, Micro QR
Power	Operation	3.7 V lithium-ion battery pack, standard: 1,100 mAh (for approx. 10 to 15 hours operating time), large: 1,880 mAh (for approx. 15 to 25 hours operating time)	
	Memory Backup	Integrated lithium-ion battery	
Environment	Drop Durability	Drop height: 1.50 m onto concrete (1.0 m without bumper)	
	Dust / Water Durability	IP54 protection class, IEC 60529 compatibel (protection against ingress of dust and splashing water on all sides)	
	Operating Environment	Temperature range –20 to +50 °C, relative humidity 10 to 80 % (no condensation)	
Dimensions (W x H x D)		51 x 169 x 30 mm (basic device size, without bumper),	
Weight		Approx. 165 g with standard battery, approx. 185 g with large battery	

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