



# Ultra Lightweight

Quick Data Capture in Shops and Warehouses



# 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.



### 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.

## 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.



### Comfortable and effortless one-handed operation

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

## 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

Front view with QVGA display		Back view (scanner version)		Side views with angled scanner head		Models with integrated laser scanner or CMOS imager and additional details	
Speaker		Laser scanner / CMOS imager		Bumper			
Status LEDs		Power On / Off					
Colour display 2.4 inch 240 x 320 pixels		Thread for extensions or Hand belt					
Cursor keypad		Scan buttons left, center, right				Bumper, removable	Ergonomic keys
Numeric keys with phone keypad characters		Battery case, ergonomically shaped cover		Details side view			
8 function keys		Docking contacts		Docking contacts			
Microphone		Docking contacts		Docking contacts			
Docking contacts							

  

<p>USB / Ethernet cradle (charging function) HA-F62IO</p>	<p>USB cradle (charging function) HA-F60IO</p>	<p>Dual battery charger HA-F32DCHG</p>	<p>Battery 1,100 mAh HA-F20BAT</p>	<p>Battery 1,880 mAh HA-F21LBAT</p>	<p>Hand belt HA-F95HB</p>	<p>AC adaptor 240 V / 12 V, 3.5 A AD-S42120C-N5</p>	<p>240 V / 5 V, 3.0 A AD-S15050B-N5</p>
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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 data 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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