# Robust but compact:
## 3m drop resistance – IP67 – 280g

Now available with All-Range-Imager and RFID/NFC functionality

- ■ Windows® Embedded CE 6.0 R3
- ■ All-Range-Imager
- ■ 3.0m drop resistance and IP67
- ■ RFID/NFC available
- ■ 280g light and highly ergonomic
- ■ 2.7 inch QVGA-touch display

**CASIO**®

# The handy All-Range terminal: Precise scanning up close and at long range

With its optional All-Range function, the DT-X8 offers virtually unlimited possibilities when it comes to mobile data logging – and what's more, it is a highly ergonomic, compact and robust device. The high-performance CMOS auto-focus imager reads two-dimensional codes with high data volumes, such as DataMatrix, Aztec, PDF417 and many other stacked codes.

The imager reads all common barcodes (depending on the line thickness) at close proximity and at long range, with its highly visible laser pointer target beam and the auto-focus imager ensuring secure and rapid reading over short and long distances.

**The highly visible laser pointer enables precision scanning at long distances**

# RFID and NFC functionality

The optional RFID module is integrated in the front of the DT-X8 terminal to ensure ease of use. Including the read/write antenna, the HF module weighs a mere 5g. With a range of approximately 10cm, the DT-X8 reads and writes RFID tags in accordance with the ISO15693 standard. Take advantage of our extensive experience in RFID technology, with many

thousands of devices on the market. An RFID tag offers considerably greater memory capacity than a 2D code. RFID tags are also known for their increased durability – problems associated with unreadable, damaged or dirty barcodes belong to a thing of the past. As there is no need for any optical contact to enable communication between the RFID tag and the hand-held

device, it is also quicker and easier to transfer data.

When it comes to Near Field Communication(NFC), the device supports the ISO14443 and ISO15693 standards. NFC technology can be used, for example, to complete a range of tasks in the fields of employee authentication and access control.

# CASIO DT-X8

## Smaller, more versatile and even more robust

*Whenever you need to scan a lot and scan quickly in a harsh environment, the new CASIO DT-X8 is at home. The DT-X8 impresses supporters of small, lightweight and ergonomic hand-held devices, as well as those who primarily emphasize reliability and robustness. The DT-X8 was specially developed for the tough working conditions in warehouses. The goal for the Japanese developers was producing a device with excellent ergonomics under tough conditions, as well as optimum functionality.*

*On the one hand, the DT-X8 is considerably more compact than traditional warehouse hand-held terminals, and on the other hand, it is clearly more robust than other devices with similar dimensions.*

## Outstanding robustness



The DT-X8 is shock protected against drops from height of up to 3 metres onto concrete. This completely covers all impacts and fall heights that typically occur in a warehouse. The terminal withstands dust and temporary immersion in water in accordance with protection class IP67 and it works at temperatures down to -20°C. This guarantees that the device can be used outdoors the whole year, as well as in cold stores, wet areas and in particularly dusty or dirty environments.

## Powerful technology

The CASIO DT-X8 comes with a PXA320 processor with a 624-MHz frequency, 128 MB RAM, 256 MB FROM memory and uses Windows® Embedded CE 6.0 R3. With the powerful 2.860-mAh lithium-ion battery, this lightweight device, which only weighs 280g, can work up to 25 hours.
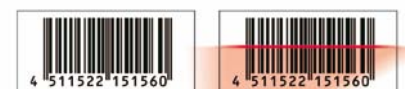
## Comfortably simple handling, perfect scanning



From the very first glance, the rolling S-shaped design of the DT-X8 suggests excellent ergonomics. This is another device developed by CASIO under the principles of Human-centred Design. Enlarged, easily accessible keys for the basic functions make the device easy to use with one hand, particularly when scanning – with or without gloves. The optional CMOS-Imager reads a wide range of 1D and 2D codes, including the latest GS1-DataBar and QR-codes. Three ergonomic scan buttons – one in the middle and one each on the left and right side of the housing – enable both right-handed and left-handed users to hold the device in different working positions and work with the least possible hand and finger movement. The scan direction points diagonally downwards for intuitive, fast scanning, allowing the user to read the display during the scanning process. If adjacent barcodes are scanned, the laser focus function shows the user which barcode is being scanned by briefly illuminating it red. Scan confirmation using a vibration function provides additional security.

# Energy-saving, high-contrast touch screen

The high-contrast colour display of the DT-X8 with LED back-light enables user-friendly data input via the touch screen. The user can operate softkeys or capture signatures on the display itself. The particularly translucent BlanView® display provides optimum readability in darkness and in strong sunlight whilst at the same time extremely low power consumption.

## Unlimited wireless communication

For data exchange, the DT-X8 is equipped with Bluetooth® 2.0 with EDR, WLAN (IEEE802.11b/g) and WPA2 encryption as standard. Thanks to the built-in microphone and loudspeaker, users can handle VOIP calls and record memos.

## Complete bundle as standard

For the first time, CASIO is offering the DT-X8 as a complete set — with all the accessories required for immediate use: 2.860-mAh battery with mains AC adapter, USB cable, communication (USB) and charging adapter, wrist strap and stylus.

## General Guide /Options

| Left Side | | Right Side |

Receiver · Status LED · Laser-Scanner/CMOS-Imager

Screen · Laser-Scanner/CMOS-Imager · microSD Card Slot

Trigger Key · Expansion Port · Trigger Key

Power on/off · Battery Case

Center Trigger Key · Cursor Key

Keyboard

Screen Protect Sheet
HA-K90PS5

Color Coded Function Keys

Lithium-ion battery
HA-K23XLBAT

| USB and Charging Unit | USB Cable | USB Cradle | USB/Ethernet Cradle | Dual Battery Charger | Double Charging Cradle |
| HA-K65US | DT-380USB-A | HA-K60IO | HA-K62I0 | HA-F32DCHG | HA-K36DCHG |

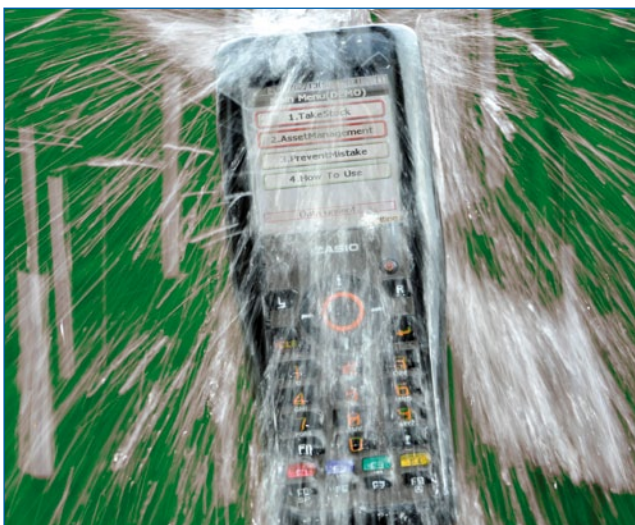| AC Adapter | AC Adapter | AC Adapter for Double Cradle | Hand Belt |
| AD-S15050B-N5 | AD-S42120C-N5 | AD-S90190C-N5 | HA-K95HB |

## DT-X8 All-Range:
## Optimising processes, adding value

The DT-X8 is an extremely compact, light and highly robust terminal that sets a new standard in warehouse environments and is second to none in terms of user benefits, reliability and investment security. The top-of-the-range DT-X8 All-Range model also features RFID and NFC functionality. It is ideal for reading large data volumes – whether at close proximity or at long distances – from a wide range of data sources and in the shortest possible time with minimal error rates. This means employees do not need to move over long distances, increasing pick rates in the warehouse and the low error rates also help to improve data quality in the company.





## Maximum benefit, minimal TCO – in typical CASIO style



rience in the toughest mobile application segments – such as parcel delivery and warehouse logistics – and high level of acceptance amongst employees ensure a predictable, low TCO (Total Cost of Ownership) and a smooth project launch phase.



The DT-X8 is highly versatile; it can be used indoors or outdoors, in wind and bad weather, under difficult lighting conditions and in extremely dusty and dirty environments. The high product quality, decades of expe-

## Specifications

| Model | DT-X8-10E | DT-X8-11E | DT-X8-20E | DT-X8-21E | DT-X8-40E | DT-X8-41E |
|---|---|---|---|---|---|---|
| Laser-Scanner | X | X | | | | |
| CMOS-Imager | | | X | X | | |
| All-Range-Imager | | | | | X | X |
| RFID/NFC Function | | X | | X | | X |

| Model | | DT-X8-10E | DT-X8-11E | DT-X8-20E | DT-X8-21E | DT-X8-40E | DT-X8-41E |
|---|---|---|---|---|---|---|---|
| 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) | | | | | |
| | Operating Temperature | -20°C to 50°C | | | | | |
| Memory | RAM | 128MB | | | | | |
| | ROM | 256MB (User area: Approx.160MB) | | | | | |
| Display | LCD | BlanView® TFT Color LCD with Touch Panel  6.9cm (2.7 inches)  QVGA (240x320 pixel) | | | | | |
| | Indicator | Indicator 1: Battery charging status<br>Indicator 2: Scanning and wireless communication status | | | | | |
| Input | Keyboard | 32 keys, numeric (Alphabet) keys, CLR key, execute key, cursor keys, power key, Fn key, F1 to F8 keys, L/R keys | | | | | |
| | Trigger | 3 (at center, left, and right) | | | | | |
| | Touch Panel | Yes (Resistive type) | | | | | |
| NFC | Standard | | NFC Interface Protocol-2 (ISO21481) | | NFC Interface Protocol-2 (ISO21481) | | NFC Interface Protocol-2 (ISO21481) |
| | Carrier Frequency | | 13,56MHz | | 13,56MHz | | 13,56MHz |
| | RFID | | ISO15693 I-CODE SLI®, Tag-it® and my-d® | | ISO15693 I-CODE SLI®, Tag-it® and my-d® | | ISO15693 I-CODE SLI®, Tag-it® and my-d® |
| | Contactless Smart Card Reader/ Writer | | ISO14443 Typ A/B Mifare® and FeliCa® Technology | | ISO14443 Typ A/B Mifare® and FeliCa® Technology | | ISO14443 Typ A/B Mifare® and FeliCa® Technology |
| Scanner | Type | Semi-conductor Laser | | C-MOS Imager | | All-Range-Imager* | |
| | Resolution | 0.127mm | | 1D: 0.15mm, Stacked: 0.169mm, Matrix: 0.25mm | | 1D: 0.127mm; Stacked: 0.127mm; Matrix: 0.169mm | |
| | 1D | GS1 DataBar Omnidirectional, 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 | | GS1 DataBar Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded, Code128/GS1-128 (UCC/EAN128), Code93, Code39, Code11, EAN8, EAN13, UPC-A, UPC-E, Codabar (NW-7), IATA, MSI, Interleaved 2 of 5 (ITF), Code 32, GS1 DataBar Truncated | | GS1 DataBar Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded, Code128/GS1-128 (UCC/EAN128), Code93, Code39, Code11, EAN8, EAN13, UPC-A, UPC-E, Codabar (NW-7), IATA, MSI, Interleaved 2 of 5 (ITF), ISBT, Code 32, GS1 DataBar Truncated | |
| | Stacked | GS1 DataBar Omnidirectionalstacked, GS1 DataBar Expanded Stacked | | GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Expanded Stacked, Code49, PDF417, Micro PDF, Composite, Codablock F, TLC39, GS1 DataBar Truncated | | GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Expanded Stacked, PDF417, Micro PDF, Composite, Codablock F | |
| | Matrix | | | Aztec, DataMatrix, Maxicode, QR Code, Micro QR, HanXin Code | | Aztec, DataMatrix, Maxicode, QR Code, MicroQR | |
| Wireless LAN | Standard | IEEE 802.11b (Maximum: 11Mbps), IEEE 802.11g (Maximum: 54Mbps) | | | | | |
| | Security | WPA2/AES | | | | | |
| Interfaces | Bluetooth® | Bluetooth® Version 2.0+EDR compatible | | | | | |
| | Card Slot | mircroSD Memory Card (SDHC) x 1 | | | | | |
| | USB | Version 1.1 (Host/Client) | | | | | |
| | Audio | Microphone: Built-in (monaural), Speaker: Built-in (monaural) | | | | | |
| Power | Main Power | Lithium-Ionen-Akku: 3,7V/2.860mAh, Large-capacity lithium-ion battery pack | | | | | |
| | Operating period | Approx. 25 hours | | Approx. 20 hours | | | |
| | Memory Backup | Lithium-ion battery (rechargeable) on board | | | | | |
| Vibrator | | standard | | | | | |
| External Dimensions (W×D×H) | | Ca. 65.8 (57.4*) x 187.5 x 44.2 (35.0 ) mm *The figure indicates the grip part. | | | | | |
| Weight Including lithium-ion-battery pack | | Approx. 280g | Approx. 285g | Approx. 280g | Approx. 285g | Approx. 290g | Approx. 295g |

* The reading range depends on the resolution and size of the barcode/ident code

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