

Handheld Computer

ABC123





NEW DX Series 6-inch / 4-inch



Speed × Durability × Flexibility

The New Standard for Mobile Devices

with Android™/Windows® 10

A single device that can meet the high speed, durability, and flexibility needs for enterprise work. Developed to satisfy the requirements for increasingly complex applications and efficiency-conscious worksites, this handheld computer can improve operations in any application.



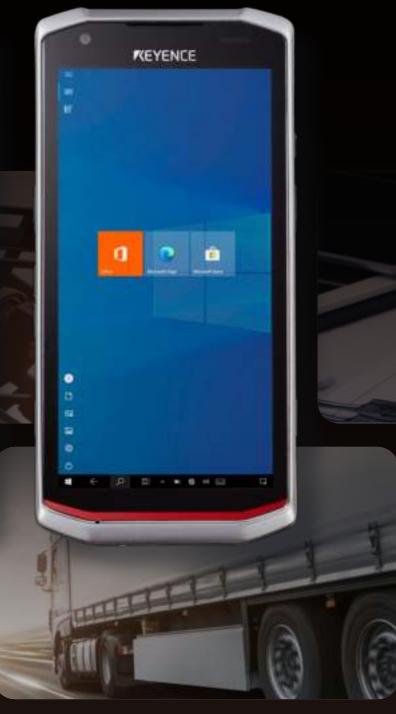


Options for Any Operation

6.0 inch

Windows





| Speed | Increased Efficient High speed and reliable of | P. 06-07 | | |
|--|--|-------------------|---|----------|
| Durability | Impact Resistan | P. 08-09 | | |
| Flexibility | Multiple Attachn | P. 10-11 | | |
| Visibility Operability | 4-inch and 6-inc Easy-to-Handle | P. 12-13 | | |
| ■ Battery and | d Communication | P. 14-15 | ■ Support | P. 23-24 |
| ■ OS, PTT, and Security Features P. 16–17 ■ Product Lineup | | | | P. 25 |
| Device ManagementSoftware | | P. 18-21 P. 22 | Specifications and Peripheral Equipment | P. 26-27 |









Speed Increased Efficiency in Any Situation

High speed reading for increased productivity

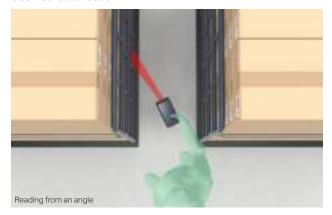




Improved reading performance for increased operation efficiency

KEYENCE's proprietary algorithm enables instant reading in any situations

Geometric correction



Read codes at any angle



Reading from an angle



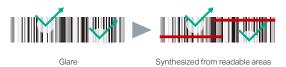


Geometric correction

Barcode reconstruction



Barcode reconstruction from readable bars and spaces



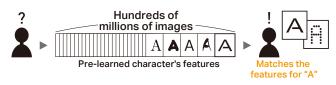
Instant code reading under the harshest of conditions



Instant reading of any text

Advanced character recognition based on pre-learned data





Examples



Delivery Statement
Sales date: 01.12.20XX
Invoice No. 000001

Expiration date 04.11.20XX



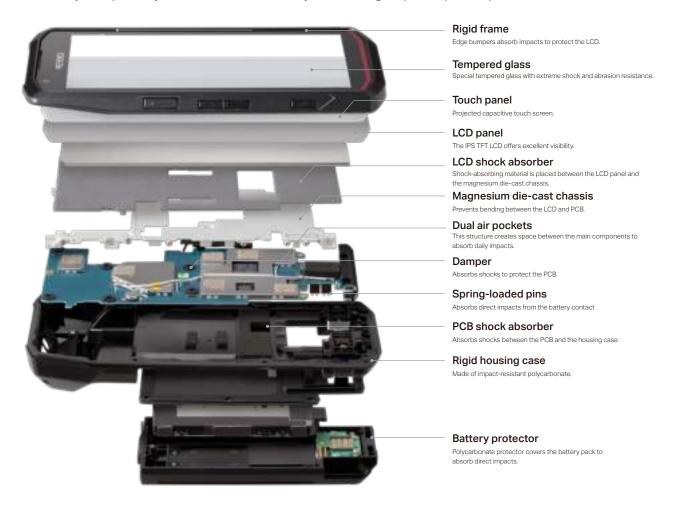
Impact Resistance and Environmental Resistance

Rugged design for use in harsh environments

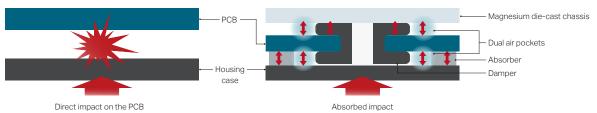


Durable 12-layer construction

The LCD and main PCB, which are often the most repaired item on a handheld computer, are protected on all sides. The carefully developed 12-layer construction enables the ability to withstand high drops and repeated impacts.



Conventional design vs. dual air pocket design



Extensive environmental resistance tests in actual operation conditions

Thermal shock test



Protected from sudden temperature changes such as moving between an office and a refrigerated area

Low-temperature drop test



Retains durability even in cold environments

Flexibility

Multiple Attachments for Any Application

Use multiple input methods with easy switch expansion units

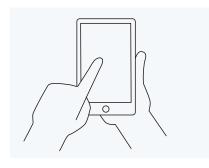








Wide variety of easily attachable expansion units



Conventional methods:

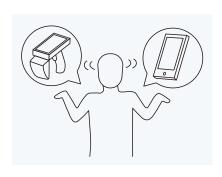
- · Software keyboard only
- Touch screen can be difficult for some operators

ome

With the DX Series

An attachable ten-keypad unit with same device

Built-in RFID reading capabilities



Conventional methods:

- Unstable Bluetooth® hardware/ software connectivity
- Separate RFID readers, chargers, and other peripheral equipment needed





Device lineup



High resolution LCD panel for use in various applications

Large 6-inch and 4-inch screen option

Two screen size options to meet a various needs





Pocket size even with a large screen



Clearly view applications, reports, and media

IPS screen technology for superior clarity, even when viewed at an angle





Join online meetings

Large screen with an ergonomic, user-friendly shape

One-handed operability

Integral finger rest ensures usability for all hand sizes.



Customizable software keyboards

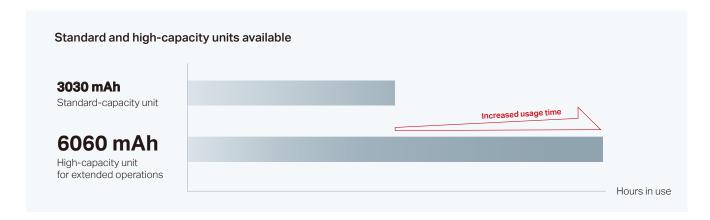
Trigger, keyboard, and function keys are provided by device settings without modifying the program.



High-capacity and flexible charging options

Four types of rechargeable communication units for any situation

You can choose the best unit depending on the intended usage time or environment.





Four charging methods to meet any need

You can choose the charging way depending on the charging location and environment.









Various communication methods for any application

Wired and wireless connectivity for greater flexibility

You can choose the best communication method for the intended application.

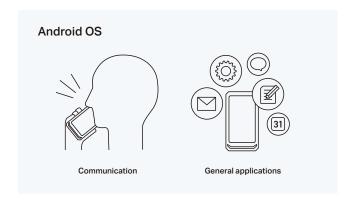


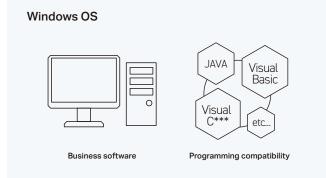
Two OS options to meet various needs

Both Android OS and Windows OS to support any system requirement



The best mobile OS options





Simple cross-device communications

PTT (Push to Talk) function

Easy to deploy without any dedicated VoIP servers



Security

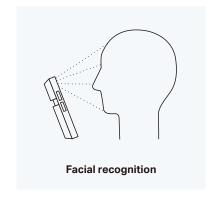
Advanced security with two-factor authentication

Selectable authentication functions

Improved security by combining passwords, NFC authentication, and facial recognition







Remote device management significantly reduces support workload

Device monitoring

The operating conditions can be monitored by collecting device status information from each remote site in real-time.

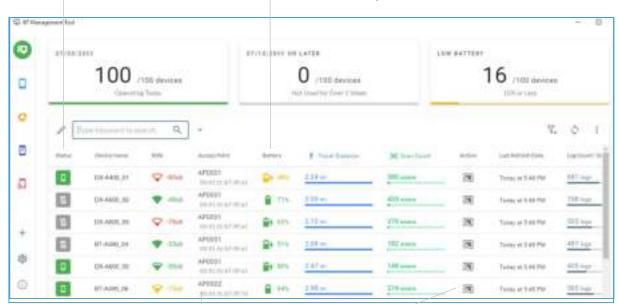


Device status

Easily check which devices are currently in use.

Remaining battery power

Visualize how much battery is left for each device.

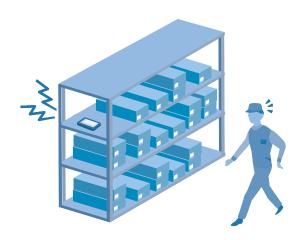


Connected access point

Determine where the device is located.

Loss prevention

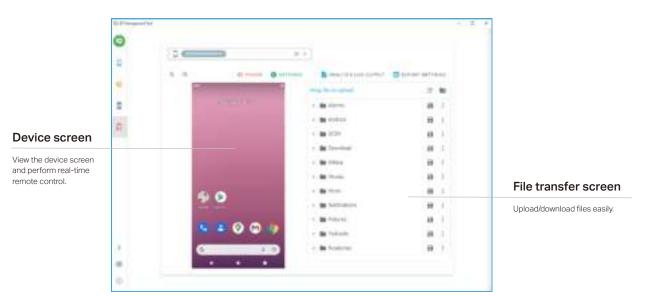
The device can emit a beep to notify users of its location when accidentally left behind, allowing users to quickly find a device left on a shelf or accidentally packed with products.



Remote access

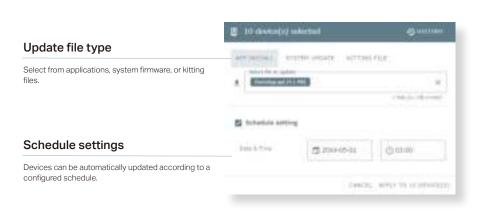
Remotely connect to a handheld computer to control the device or transfer files over a wireless network. Remote access also enables support and troubleshooting from a different location.





Device update

Update applications and system firmware remotely without visiting the worksite. Updates can also be scheduled to run automatically at night.





Remote device management significantly reduces support workload

Operation log analysis

Detailed device information including wireless signal level and application status can be checked. The device will log operation history and screen captures to quickly determine the causes of failures and reduce time spent responding to problems.



Operation history

Detailed device history including operations, reading results, movements, battery status, and communication status can be checked.



Screen capture

Screen captures are collected and can be viewed to monitor application statuses.

Captured image

Images taken by the device camera are recorded to review situations such as damaged boxes or missing items.

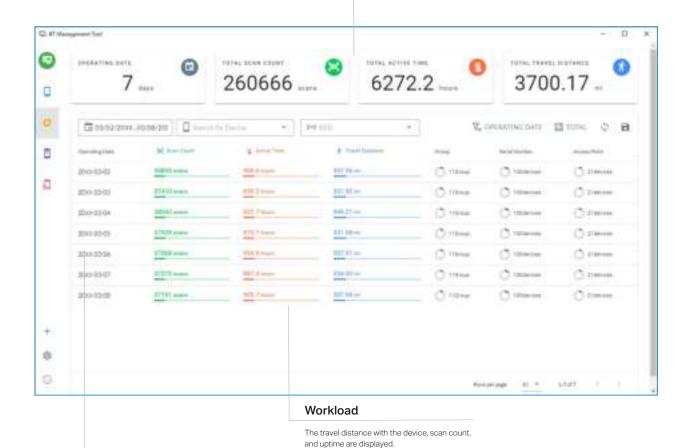
Workload analysis

Access point grouping can enable quick analysis of the workload in a specific area. Checking the travel distance or workload in an area can help determine the best placement of personnel or shelving.



Total workload

The total workload information in a selected group is displayed.



The devices can be grouped to better analyze workload by access point or operating date.

Grouping

Built-in implementation and maintenance support

Enterprise Launcher

KEYENCE provides tools for limiting device use to just functions and applications needed for work. This enables usability as a dedicated business terminal with added security to prevent the installation and usage of unneeded applications.



Enterprise Browser

KEYENCE has developed a special browser with a wide range of useful features not found in general-purpose browsers.

Extended JavaScript Control the device even with Web-based application Full screen mode Remove the URL bar to better utilize the large screen • Reading control • Buzzer • Vibration

Kitting function

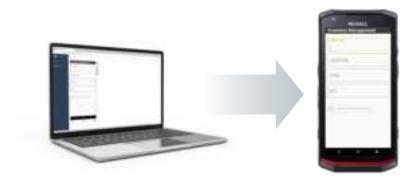
Wirelessly copy settings from one device to multiple, making setup quick and easy.



Reliable support and fast delivery for smoother operations

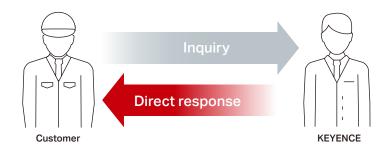
Remote access function

Remotely connect to the handheld computer to control the device or transfer files over a wireless network. This function also enables to support and troubleshoot a device independent of its location.



Direct support

KEYENCE provides direct support without having to go through a distributor for faster handling of technical inquiries.



Quick delivery

KEYENCE offers fast delivery of trial unit, replacement unit, and other products.

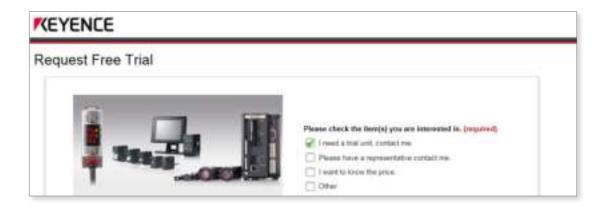


FREE TRIAL UNIT

We always recommend that customers purchase our products after evaluating actual performance on their production line. Customers may select the product of their choice and use it on a free trial basis before actually purchasing the product.

Visit us at the following website to get trial unit

www.keyence.com/bt_freetrial_request



SUPPORT PAGE FOR THE DEVELOPER

Access a rich collection of easy start-up guides, manuals, sample projects, and more. Visit KEYENCE's special website for information useful to customers.

Visit us at the following website for more information.

www.keyence.com/btus







| Model | DX-A600 | DX-A400 | DX-W600 |
|-------------|---------|---------|---------------------------|
| Screen size | 6 inch | 4 inch | 6 inch |
| os | Andro | oid 11 | Windows 10 IoT Enterprise |

Communication units with internal rechargeable battery











| Model | DX-BS3 | DX-BS3H | DX-BS6 | DX-BQ3 | DX-BQ6 | |
|-----------------|---|---------|--------|---------------------------|---------------------------|--|
| Charging method | Contact charging | | | Non-contact charging | | |
| Capacity | 3030 mAh internal battery 6060 mAh internal battery | | | 3030 mAh internal battery | 6060 mAh internal battery | |
| Communication | | | USB | | | |

^{*} The DX-BS3x/BQ3 are not supported for the DX-W600. The DX-BP3/6 are also available for the DX-BS3x/6 and DX-BQ3/6.

Expansion units











| Model | DX-KE1 | DX-RH1GA | DX-RM1GA | DX-GN1 | | |
|----------------------|---------------------------|--------------------------|----------------------|----------|--|--|
| Туре | Ten-key pad | RFID (High output) | RFID (Medium output) | Gun grip | | |
| Rechargeable battery | 6060 mAh internal battery | Sold separately (DX-BC6) | | | | |
| Communication | USR | | | | | |

| Model | DX-BC6 |
|----------|----------|
| Capacity | 6270 mAh |

Communication and charging cradle











| Model | DX-UC1UL | DX-UC1M | OP-88604 | DX-UC4 | DX-UC4E | |
|--------------------|---|---------|----------|--------------|---------|--|
| Chargeable devices | 1 | | | | 1 | |
| Charging method | Magnetic charging | | | | | |
| Communication | USB/LAN USB/LAN/RS-232C/VGA USB No communication port | | | ication port | | |

Peripheral Equipment

| | Model | Model name |
|--|--------------------|---|
| | Model | Model name |
| ij | DX-BS3 | Communication Unit with Internal Rechargeable Battery (Magnet connector) |
| U | DX-BS3H | Communication Unit with Internal Rechargeable Battery (Hand Strap Type) |
| (i) | DX-BS6 | Communication Unit with High-capacity Internal Rechargeable Battery (Magnet connector) |
| | DX-BQ3 | Communication Unit with Internal Rechargeable Battery (Qi Type) |
| | DX-BQ6 | Communication Unit with High-capacity Internal Rechargeable Battery (Qi Type) |
| | DX-BC6 | Cylindrical Rechargeable Battery |
| | DX-UC1UL | Communication and Charging Cradle |
| | DX-UC1M | Multi-port Communication and Charging Cradle |
| a de la companya dela companya dela companya dela companya de la companya de la companya de la companya dela companya de la companya dela compan | DX-UC4 | 4-slot Charging Cradle |
| | DX-UC4E | 4-slot Charging Cradle (for Expansion Unit) |
| 8 | DX-KE1 | Ten-Keypad Unit |
| 4 | DX-RH1GA | High-output RFID Unit |
| ¥ | DX-RM1GA | Medium-output RFID Unit |
| T | DX-GN1 | Gun Grip Unit |
| WWW. | DX-OCR1 | OCR License |
| NYOU. | BT-HMT1 BT-HMT2 | BT Management Tool License |
| | OP-88605 | Grip Stand |

| | Model | Model name |
|----------|-----------|---|
| 1 | OP-88596 | Rubber Bumper (for 6-inch models) |
| 1 | OP-88597 | Rubber Bumper (for 4-inch models) |
| | OP-88601 | Screen Protector (for 6-inch models) |
| | OP-88602 | Screen Protector (for 4-inch models) |
| 0 | OP-66844 | USB Cable (2 m 6.6') (Type B) |
| 0 | OP-88603 | USB Cable (2 m 6.6') (Micro B) |
| * | OP-88565* | USB Power Adapter |
| 10 | OP-88604 | Magnetic Charging Cable (1 m 3.3') |
| > | OP-88574 | Stylus Pen (×1) |
| 19 | OP-88269 | Holster (Large) |
| | OP-87724 | Holster (Small) |
| 9 | OP-87164 | Holster Belt |
| 11 | OP-87745 | Wrist Strap |
| 0 | OP-87163 | Lanyard |
| 9 | OP-99xx1* | AC Cable |

 $^{^{\}star}$ Models vary depending on the country. Contact a KEYENCE sales representative for details.

Specifications

| Model | | DX-A600 | DX-A400 | DX-W600 | |
|---|-----------------------|--|--|--|--|
| CPU | | ARM® Pe | ARM® Penta Core | | |
| Controller | os | Androi | id™ 11 | Windows® 10 IoT Enterprise | |
| Main Memory | RAM/ROM | 3 GB RAM, | 16 GB ROM | 4 GB RAM, 64 GB ROM | |
| B' I | LCD | 6.0-inch, 720 × 1440 | 4.0-inch, 480 × 800 | 6.0-inch, 720 × 1440 | |
| Display | Operation Status LED | | 3-color LED | | |
| Operations | Hard Keys | Trigger key × 2, Volume up/down keys, Power key, Side Fn key × 2 | Trigger key × 2, Volume up/down keys, Power key, Front Fn key × 3 | Trigger key × 2, Volume up/down keys, Power key, Side Fn key × 2 | |
| | Touch Panel | | Electrostatic capacitance method (Tempered glass) | | |
| Reading Light Source High-intensity white | | | | | |
| | Pointer Light Source | Visible semiconducto | r laser (655 nm), Output: 390 μW, Class 1 laser product (JIS | C 6802) (IEC 60825-1) | |
| Scanner | Minimum Resolution | | 2D code: 0.169 mm 0.0067", Barcode: 0.076 mm 0.0030" | | |
| Scarnier | Field Range | 1 | 186 × 114 mm 7.32" × 4.49" (Reading distance: 200 mm 7.87 | 7") | |
| | Supported Codes | | oort), CODE128, GS1-128, CODE39, Codabar (NW-7), CODE o QR, DataMatrix (ECC200), PDF417, GS1 DataBar, Composi | | |
| | Wireless LAN | IEEE 802.11 <i>a/b/g/n/ac</i> 2.4 GHz (b.g.n: 1 to 11 ch) 5.2 GHz, 5.3 GHz (<i>a/n/a</i> c) | | IEEE 802.11 a/b/g/n/ac, 2.4 GHz (b,g,n: 1 to 14 ch), 5.2 GHz, 5.3 GHz, 5.6 GHz, 5.8 GHz (a/n/ac)*3 | |
| | Bluetooth | Bluetooth Ver. | Bluetooth Ver. 4.2 BR/EDR/LE | | |
| Communication | WWAN | 4G LTE/3G, SIM unloc | _ | | |
| | GNSS | GPS, A-GPS, GL | _ | | |
| | NFC | | | | |
| | Supported Media | | microSD/SDHC/SDXC UHS-I | | |
| Power Source | Main Battery | | Dedicated lithium-ion battery pack | | |
| Power Source | Backup Battery | | Built-in lithium secondary battery: Approx. 1 month*1 | | |
| | Microphone | 2 (noise-c | canceling) | 1 | |
| | Speaker | | Speaker × 1, Receiver × 1 | | |
| Other | Vibration | Available | | | |
| Otilei | Camera | | Rear Camera: 8 MP-AF, Front Camera: 5 MP | | |
| | Sensor | Accelerometer, Gyroscope, Digital Temperature and humid | Accelerometer, Gyroscope, Ambient light, Proximity, Temperature and humidity, Barometric pressure | | |
| | Operating Temperature | -20 to +50°C -4 to +122°F, Cha | -5 to +50°C 23 to +122°F, Charging: 0 to +40°C 32 to 104°F*2 | | |
| Environmental | Operating Humidity | | 20 to 85% RH (No condensation) | | |
| Resistance | Storage Temperature | | | | |
| | Storage Humidity | | 20 to 85% RH (No condensation) | | |
| Dimensions | | 175.5 × 85.9 × 31.5 mm 6.91" × 3.38" × 1.24" | 143.5 × 73.7 × 31.8 mm 5.65" × 2.90" × 1.25" | 175.5 × 85.9 × 31.5 mm 6.91" × 3.38" × 1.24" | |
| Weight | | Approx. 220 g 7.77 oz | Approx. 165 g 5.82 oz | Approx. 230 g 8.12 oz | |

*1 This indicates the case when the main battery is not attached or the battery has no charge.

*2 Due to the added load in sub-zero environments, the continuous usage time may be reduced significantly. Be sure to test the device before use in these environments. *3 The usable frequency band varies depending on the region.

| Model | | DX-BS6 | DX-BS3*2 | DX-BS3H*2 | DX-BC6*1 | DX-BQ6 | DX-BQ3*2 | |
|--------------|----------------------|--|---|---|--|---|--|--|
| Display | Charging Status LED | 2-color LED — | | | 2-cole | 2-color LED | | |
| | Туре | | | Dedicated lithium | ion battery pack | | | |
| Power Source | Capacity | 6060 mAh | 3030 | mAh | 6270 mAh | 6060 mAh | 3030 mAh | |
| | Charging Time | Approx. 7 hours | Approx. 4 hours | | Approx. 7 hours | Approx. 7.5 hours (non-contact charging) Approx. 6 hours (USB) | Approx. 5 hours (non-contact charging) Approx. 4 hours (USB) | |
| | Magnet Connector | Supported (Charging and Communication) * Used with DX-UC4, DX-UC4E, DX-UC1UL, DX-UC1M, or OP-88604 (Magnetic charging cable) | | | _ | | | |
| Interfaces | USB | | _ | | | Supported (Charging and Communication) * Used with USB Micro B, USB 2.0 OTG*3, or OP-88603 (USB Micro B cable) | | |
| | Non-contact Charging | | Supported (Cl * Used with Qi 1.1-c | | | | | |
| Dimensions | | 122.3 × 66.1 × 27.2 mm 4.81" × 2.60" × 1.07" | 117.6 × 66.1 × 17.3 mm 4.63" × 2.60" × 0.68" | 117.6 × 66.1 × 22.5 mm 4.63" × 2.60" × 0.89" | 78.7 × 40.6 × 22.4 mm 3.10" × 1.60" × 0.88" | 117.6 × 66.1 × 22 mm 4.63" × 2.60" × 0.89" | 117.6 × 66.1 × 15.5 mm 4.63" × 2.60" × 0.61" | |
| Weight | | Approx. 155 g 5.47 oz | Approx. 10 | 0 g 3.53 oz | Approx. 115 g 4.06 oz | Approx. 155 g 5.47 oz | Approx. 105 g 3.71 oz | |
| Accessory | | Hand strap | _ | Hand strap | _ | _ | _ | |

*1 The DX-BC6 can be used only with the expansion unit installed. The interface and charging status LEDs for the DX-BC6 are included on the side of the attached expansion unit.

*2 The DX-BS3x/BQ3 are not supported for the DX-W600.
*3 An OTG conversion cable is required for use in USB Host mode.

| Model | | DX-RH1GA (RFID high-output unit) | DX-RM1GA (RFID medium-output unit) | DX-GN1 | DX-KE1 | |
|---------------------|---------------------------|---|--|--|---|--|
| Display | Charging Confirmation LED | 2-color LED | | | | |
| Operations | Hard Keys | Trigger key × 1 | Front keys × 27 | Trigger key × 1 | Front keys × 24 | |
| | Supported Tags | ISO/IEC 18000-6 Type C (| EPC Global Class 1 Gen 2) | | _ | |
| RFID | Frequency Range | DX-RH1GA: 902.75 - 927.25 MHz | DX-RM1GA: 902.75 - 927.25 MHz | | _ | |
| Transmission Output | | 1 W or less | DX-RM1GA: 500 mW or less | | _ | |
| _ Type | | Dedicated lithium ion battery pack (DX-BC6) | | | Dedicated lithium ion battery pack (built in) | |
| Power supply | Capacity | 6270 mAh | | | 6060 mAh | |
| Interface | Magnetic Connector | Supported (charging/communication) * Connected to DX-UC4 (with the DX-KE1), DX-UC4E, DX-UC1UL, DX-UC1N (ro OP-88604 (magnetic charging cable) | | | | |
| Dimensions | | 182.1 × 100 × 152.4 mm 7.17" × 3.94" × 6.00" | 222.4 × 70.6 × 50 mm 8.76" × 2.78" × 1.97" | 182.1 × 66.1 × 106.6 mm 7.17" × 2.60" × 4.20" | 174.1 × 66.1 × 33.5 mm 6.85" × 2.60" × 1.32" | |
| Weight | | Approx. 405 g 14.30 oz | 14.30 oz Approx. 205 g 7.24 oz Approx. 175 g 6.18 oz Approx. 205 g 7.24 oz*1 | | | |

*1 The DX-KE1 weight includes the built-in battery.

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Full-Range Handheld Computer

BT-A700 Series

Impressive reading range

Read from as close as 1 inch to as far as 30 feet away

Large LCD

Equipped with an easy-to-read 5-inch LCD

One-handed operation

Ergonomic gun-grip design for excellent operability



Grip-type Handheld Computer

BT-A500 Series

Impressive reading speed

Instant batch reading of many codes at once

One-handed operation

The shape is optimized for both flick and hard-key operation

Excellent durability

The durable structure can withstand tough operating conditions



Logistics Code Reader

SR-5000 Series

Ultra-wide field of view and ultra-long reading depth

Reliable reading even with packages of different shapes or sizes

Ultra-high speed

Stable reading even on high-speed lines

Easy installation and operation

Incredibly simplified installation and operation for all users



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