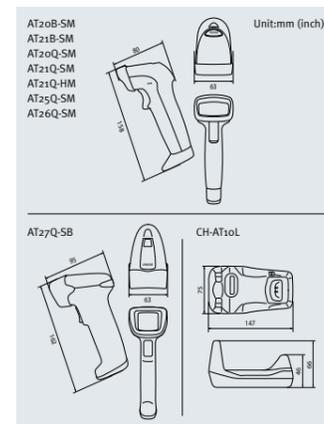


| | | Barcode model | | | | 2D Code model | | | | | | | | | | | |
|--------------------------|--|-------------------------------------|--|-------------------------------------|-----------------------------|-------------------------------------|--|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|-------------------------------------|--|-------------------------------------|---------------------------|
| | | AT20B-SM (White) | | AT21B-SM (Black) | | AT20Q-SM (White) | | AT21Q-SM (Black) | | AT21Q-HM (Black) | | AT25Q-SM (White) | | AT26Q-SM (Black) | | AT27Q-SB | |
| | | AT20B-SM (R) | AT20B-SM (L) | AT21B-SM (R) | AT21B-SM (L) | AT20Q-SM (R) | AT20Q-SM (L) | AT21Q-SM (R) | AT21Q-SM (L) | AT21Q-SM (R) | AT21Q-SM (L) | AT25Q-SM (R) | AT25Q-SM (L) | AT26Q-SM (R) | AT26Q-SM (L) | AT27Q-SB ¹ | |
| Scanner | Method | Advanced Scan Plus (CCD) | | | | Area Sensor | | | | | | | | | | | |
| | Readable codes | 2D Code | QR code, Micro QR code, SQRC, iQR, Data Matrix (ECC200), PDF417, Micro PDF417, Maxi code, Aztec, GS1 Composite | | | | | | | | | | | | | | |
| | | Barcode | EAN-13/8 (JAN-13/8), UPCA/E, UPC/EAN (with add-on), Interleaved 2 of 5 (ITF), Standard 2 of 5 (STF), CODABAR (NW-7), CODE32, CODE39, CODE93, CODE128, GS1-128 (EAN-128), GS1 Databar (RSS), MSI, Plessey | | | | EAN-13/8 (JAN-13/8), UPCA/E, UPC/EAN (with add-on), Interleaved 2 of 5 (ITF), Standard 2 of 5 (STF), CODABAR (NW-7), CODE39, CODE93, CODE128, GS1-128 (EAN-128), GS1 Databar (RSS) | | | | | | | | | | |
| | Minimum resolution | 2D Code | - | | | | 0.167mm | | 0.125mm | | - | | 0.167mm | | - | | - |
| | | Barcode | - | | | | 0.125mm | | - | | 0.10mm | | - | | 0.125mm | | - |
| | Marker | - | | | | LED marker | | | | - | | | | Area guide marker | | | |
| | Angle | - | | | | ±50° | | | | - | | | | 360° | | | |
| | Skew angle | - | | | | - | | | | - | | | | 360° | | | |
| | Image capture | - | | | | BMP, JPEG output, thumbnail view | | | | | | | | | | | |
| Scanning confirmation | Confirmation LED (Blue, Green, Red), Buzzer (with 3-level volume control and 3-level tone control) | | | | | | | | | | | | | | Confirmation LED (Blue, Green, Red, Orange), Buzzer (with 3-level volume control and 3-level tone control) | | |
| Communication interface | Method | RS-232C | USB (COM, HID) ² | RS-232C | USB (COM, HID) ² | RS-232C | USB (COM, HID) ² | RS-232C | USB (COM, HID) ² | RS-232C | USB (COM, HID) ² | RS-232C | USB (COM, HID) ² | RS-232C | USB (COM, HID) ² | Bluetooth Ver.2.1+EDR based class2 | |
| | Connector | Dsub-9S | USB connector (A type) | Dsub-9S | USB connector (A type) | Dsub-9S | USB connector (A type) | Dsub-9S | USB connector (A type) | Dsub-9S | USB connector (A type) | Dsub-9S | USB connector (A type) | Dsub-9S | USB connector (A type) | - | |
| | Profile | - | | | | | | | | | | | | | | SPP, HID | |
| | Cable | 2m straight cable | | | | | | | | | | | | | | - | |
| Power | Exclusive AC adapter | Supplied from the connection target | Exclusive AC adapter | Supplied from the connection target | Exclusive AC adapter | Supplied from the connection target | Exclusive AC adapter | Supplied from the connection target | Exclusive AC adapter | Supplied from the connection target | Exclusive AC adapter | Supplied from the connection target | Exclusive AC adapter | Supplied from the connection target | Exclusive AC adapter | Supplied from the connection target | Exclusive battery (SB-28) |
| | Operating Time ³ | - | | | | | | | | | | | | | | 28 hours | |
| Environment requirements | Dust-proof, Drip-proof | - | | | | | | | | | | | | | | IP42 | |
| | Drop impact resistance ⁴ | - | | | | | | | | | | | | | | 1.8 m/0.2 m × 100,000 times | |
| | Operating humidity | - | | | | | | | | | | | | | | 10 to 90% RH (without dews) | |
| | Operating temperature | - | | | | | | | | | | | | | | -5~50°C | |
| Operating illumination | - | | | | | | | | | | | | | | 0 to 10,000 lx (Fluorescent lamp in daytime) | | |
| Weight (excl. cable) | Approx. 105 g (excl. cable) | | | | Approx. 110 g (excl. cable) | | | | | | | | | | Approx. 200 g (incl. battery) | | |

1: External case of the Bluetooth model is a different with the wired model.
 2: Two methods are supported: a USB keyboard interface and a USB-COM interface. The factory default is a USB keyboard interface (Using new and fully charged battery).
 3: With one reading pass over a 5 s period.
 4: These are test values, but not guaranteed values.

Dimensions

Product configuration



Accessories
 2D code model / 1D barcode model (standard type)

- Scanner
- Interface cable
- AC adaptor (Only for RS-232C model with AC adaptor)
- Operation Guide
- Instruction manual

- Bluetooth model**
- Scanner (Including battery SB-10L)
 - Charger (CH-AT10L)
 - AC adaptor
 - Hand Strap
 - Operation Guide
 - Instruction manual

Bluetooth communication unit (BA11-RKU) is separately sold.

Optional accessories (Separately sold)
 2D code model / 1D barcode model (RC-232, USB I/F type)

- Stand [S-AT20 (White)] [S-AT21 (Black)]
- Hands-free stand [H-AT20 (White)] [H-AT21 (Black)] [H-AT20-2 (White)]
- Bluetooth model
- Stand [S-AT10]
- Bluetooth communication unit to communicate with Non Bluetooth device [BA11-RKU]



Note: BA11-RKU support 4 I/F types. Please refer to our website for more information.

- Software**
- USB driver [Active USB-COM port driver]
 - Setting software [Scanner Setting (for barcode models)] [Scanner Setting 2D (for 2D code models)] [BA Setting (for BA11-RKU)]
 - Keyboard emulation software [QR kbif3.o]

Items with this mark can be downloaded on our webpages for free.

DENSO WAVE EUROPE GmbH

Parsevalstr. 9 A
 D-40468 Düsseldorf
 Phone: +49 211 540 138 40
 info@denso-wave.eu
www.denso-wave.eu

HIGH-SPEED SCANNING



SCANNER
AT20 SERIES



1D Barcode model
 AT20B-SM (White)
 AT21B-SM (Black)



2D Code model
 LED marker type
 AT20Q-SM (White)
 AT21Q-SM (Black)
 AT21Q-HM (Black)

Laser guide marker type
 AT25Q-SM (White)
 AT26Q-SM (Black)
 AT27Q-SB / AT21Q-HM (Black)

AT-20 Series: Unique scanners to improve your work efficiency

Scan performance



Readability from any direction (360°)

Barcodes can be scanned from any direction, horizontally and vertically.



High-speed shutter

The integrated high-speed shutter enables failure-free operation without impact of a shaking camera.



Wide-angle scanning, excellent readability

The number of horizontal pixels is increased and reading algorithms improved. The readability of wide barcodes used for public utility bills, medical bills, etc. is enormous due to the high number of horizontal pictures and the efficient reading algorithms.



High resolution applicable for various businesses

The newly developed reading engine enables 0.125 mm resolution for 1D barcodes and 0.167 mm for 2D barcodes. The scanner can be used for a wide range of businesses such as operations of plants, hospitals and shops.



Multi-row barcodes can be read at once.

The scanner can read two-row barcodes of books and up to three-row other barcodes. This increase in the reading frequency leads to a drastic reduction of working hours.



Reads barcodes from mobile phone LCD screen

The newly developed unique LED illumination control function prevents specular reflection. Therefore the device can quickly read barcodes also from mobile phone LCD screens.



Easy-to-use image capture function

The scanner can read not only barcodes but also take pictures. The device enables you to easily read even small characters. This function is useful particularly for logistics and transportation industries dealing with bills. One JPEG image can be transferred within one second in the case of USB connection.



Long battery life + Rapid charge

Specialized charger for Bluetooth model (CH-AT10L) charges in only 2.5 hours. The long battery operation of up to 28 hours allows the user to work a whole day.*

* With one reading pass over a 5s period.

User friendly



The most lightweight 2D device (approx. 110 g) in its class*

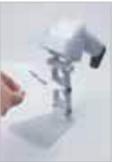
The most lightweight and compact design in its class results in less fatigue even after long working hours. The weight of the 1D barcode model is approximately 105 g.

* According to the Denso Wave survey in May 2012 except AT-27Q



Smooth automatic scanning by attaching the scanner to a hands-free stand

The scanner can be used not only by holding it, but also by attaching it to a hands-free stand for scanning.



Eye-friendly LED marker

In addition to the laser guide marker-type model, the new LED marker-type model that indicates the scanning area has been released. The scanner considers the safety of eyes, ideal for the use in service industries such as supermarkets.



Solid and robust



Ability to withstand a 2-meter impact

In addition to the lightweight body, impact buffer materials and a highly durable case enable to withstand a 2-meter drop impact, the highest standard in its class.

The device can also resist 100,000 time falls from the height of 20 cm.

Safety and speed required for business-use today



Scans at twice the speed

DENSO's Advanced Scan Plus technology gives the AT20B twice the scanning speed of previous models, increasing the efficiency of operations such as continuous barcode scanning for product inspection.



Super-deep scanning field of depth enabling quick reading of barcodes a short distance away from you

The AT20B enables super-deep-field scanning compatible with a variety of tasks, from close-up scanning to distant scanning, making it possible to perform smooth scanning regardless of the scanner's position.



Connect to a tablet computer and smartphone

In addition to the SPP profile, AT27Q-SB supports the HID profile. The HID profile allows the user to connect not only to a PC or PDA but also to a tablet computer or smartphone.

Global support



Globally deployable

Available in more than 40 countries across the world! We offer a 5 years warranty (granted only for body).* A full range of service from sales to maintenance. Certified authorised repair and service centers.

* for AT-27Q we offer 1 year warranty

