AT20 series specifications

		Barcode model				2D Code mode							
						LED marker type				Laser guide marker type			
		AT20B-SM (White)		AT21B-SM (Black)		AT20Q-SM (White)		AT21Q-SM (Black)		AT25Q-SM (White)		AT26Q-SM (Black)	
		RS-232C model	USB model	RS-232C model	USB model	RS-232C model	USB model	RS-232C model	USB model	RS-232C model	USB model	RS-232C model	USB model
Type		AT20B-SM(R)	AT20B-SM(U)	AT21B-SM(R)	AT21B-SM(U)	AT20Q-SM(R)	AT20Q-SM(U)	AT21Q-SM(R)	AT21Q-SM(U)	AT25Q-SM(R)	AT25Q-SM(U)	AT26Q-SM(R)	AT26Q-SM(U)
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 Data Bar Composite (EAN.UCC Composite)							
	Readable codes — Barcode	EAN-13/8 (JAN-13/8), UPC-A/E, UPC/EAN (with add-on), Interleaved 2 of 5, CODABAR (NW-7), CODE39, CODE93, CODE128, GS1-128 (EAN -128), GS1 Databar (RSS), Standard 2 of 5											
	Minimum resolution — 2D Code	—				0.167mm							
	Minimum resolution — Barcode	0.125mm											
	Marker	—				LED marker				Area guide marker			
	Angle	±50°											
	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)											
Communication interface	Method	RS-232C	USB (COM, HID) *1	RS-232C	USB (COM, HID) *1	RS-232C	USB (COM, HID) *1	RS-232C	USB (COM, HID) *1	RS-232C	USB (COM, HID) *1	RS-232C	USB (COM, HID) *1
	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)
	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
Environment requirements	Dust-proof, Drip-proof	IP42											
	Drop impact resistance *2	2.0 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				Approx. 110 g							

*1 Two methods are supported: a USB keyboard interface and a USB-COM interface. The factory default is a USB keyboard interface. *2 These are test values, but not guaranteed values.

Dimensions

Unit：mm

80
158
63
2,000

2 m straight cable
USB interface

2,000

2 m straight cable
RS232C interface
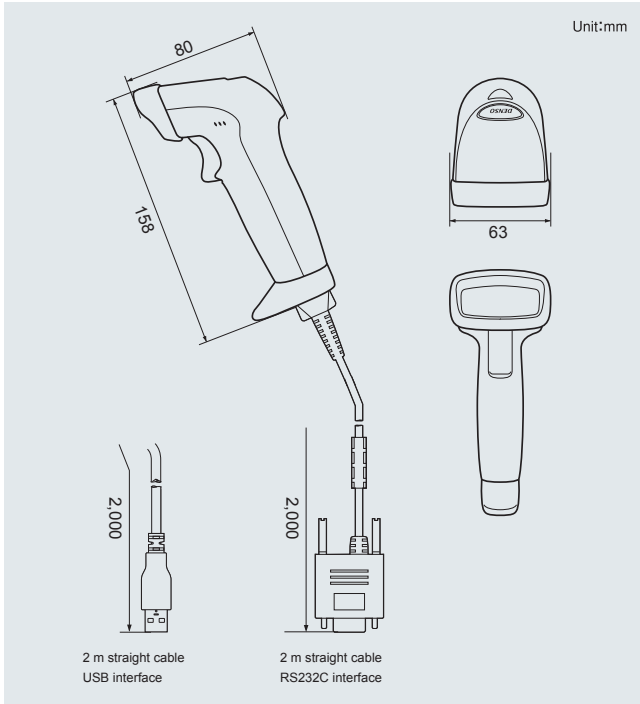
Product configuration

Accessories
● Interface cable
● AC adaptor
 (Only for RS-232C model with AC adapter)
● Operation Guide
📄 Instruction manual

Software
📄 USB driver [Active USB-COM port driver]
📄 Setting software [Scanner Setting (for barcode models)]
  [Scanner Setting 2D (for 2D code models)]
📄 Keyboard emulation software [QR kbif3.0]

Optional accessories
(Separately sold)
● Stand
 [S-AT20 (White)]
 [S-AT21 (Black)]
● Hands-free stand
 [H-AT20 (White)]
 [H-AT21 (Black)]

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

S-AT20（White）
S-AT21（Black）
H-AT20（White）
H-AT21（Black）

For details on these products, see this webpage.
http://www.denso-wave.com/en/adcd/
● Appearance and specifications may be changed without prior notice for improvement.
● Data on this catalog are as of June 2012.

DENSO WAVE INCORPORATED

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DENSO

HANDY SCANNER

AT20
SERIES

2D code model
■ LED marker type
AT20Q-SM (White)
AT21Q-SM (Black)

■ Laser guide marker type
AT25Q-SM (White)
AT26Q-SM (Black)

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

High-speed scanning to improve your work efficiency

5 year Warranty
(only for body)

Actual size

360° Improved readability
Readable from any direction（360°）
※Only 2D code model

Lightweight Compact Easy to use and less straining for anyone
Compact, lightweight body - Highest level in the class

2.0m You do not have to worry about accidental falls.
Survive a 2 m drop - Highest level in the class

GLOBAL PRODUCTS

You want to facilitate your task.

It is troublesome to consider scanning direction. 360°

So ▶ High-speed shutter & readability from any direction (360°)

You can improve your work efficiency by the high-speed shutter that enables operation not affected by camera shake, and readability from any direction.

Barcodes can be scanned from any direction. Both horizontal and vertical scanning are possible.

It is difficult to read a wide barcode with a 2D code scanner. WIDE

So ▶ Wide-angle scanning, improved readability

The number of horizontal pixels is increased and reading algorithms improved. Readability for wide barcodes used for public utility bills, medical bills, etc. is improved.

It is convenient if there is a scanner compatible with any length of barcodes from small to wide barcodes. UP Resolution

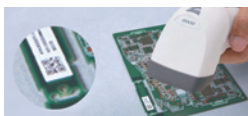**So** ▶ Improved resolution useful for various businesses

The newly developed reading engine enabled 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.

Material labels   Medical labels   Electronic parts

It takes time to read multi-row barcodes. MAX 3

So ▶ Multi-row barcodes can be read at one time.

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

2D code model

AT20Q

AT20Q can read both QR codes and barcodes. It is a hybrid scanner with two functions

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More efficient, more convenient

You want to read a membership certificate or coupon displayed on a mobile phone screen. OK

So ▶ Possible to read barcodes on mobile phone LCD screen

The newly developed unique LED illumination control function is incorporated in the scanner to suppress specular reflection. The device can quickly read barcodes on mobile phone LCD screens.

You want to consider the safety of operators as well as customers. Good

So ▶ Eye-friendly LED marker

In addition to the laser guide marker-type model, which is already on the market, the 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.

You want to take pictures of bills used for home delivery service, etc. Capture

So ▶ 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.)
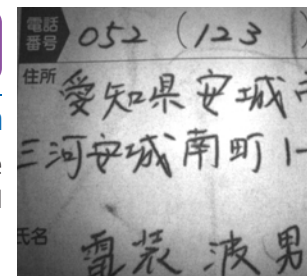
Barcode model

AT20B

Barcode scanner aiming at comfortable use for a long period

You do not want to take time to scan.

**So** ▶ Scans at twice the speed of previous models

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.

You want to quickly read barcodes a short distance away from you.

So ▶ Super-deep scanning field 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.
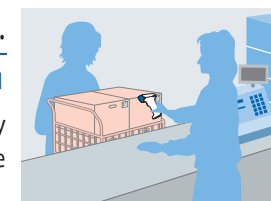
Incorporated with many user-friendly and unique functions of DENSO ⟨ Common features of barcode and 2D barcode models ⟩

You do not want to carry a heavy scanner for long working hours. Lightweight Compact

So ▶ The most lightweight device (approx. 110 g) in the class*

The most lightweight and compact design in the class* results in less fatigue even after long working hours. Many other ideas are also incorporated into various parts of the body for usability. (The weight of the barcode model is approximately 105 g.)

*According to our survey in May 2012

Accidents may happen during your work. 2.0m

So ▶ Ability to withstand a 2-meter drop impact

In addition to the lightweight body, impact buffer materials and a highly durable case are used to possess the ability to withstand a 2-meter drop impact, the highest standard in the class. The device can also resist 100,000 time falls from the height of 20 cm, considering more ordinary troubles during actual use.

2.0m

Scanning of a large volume of data may strain your arm. FREE

So ▶ 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. You can use the scanner usually by setting it to a hands-free stand, while by holding the scanner in the hand when scanning a label attached to a large item that you cannot carry.

■ Scanning by placing a label in view of the scanner

With no label present, the scanner is on standby.   When a label is placed in view, scanning begins.

You want to use the scanner overseas.

So ▶ Can be used in more than 35 countries and regions.

DENSO group companies around the world can quickly meet customers' needs from sales to maintenance.

Areas where the AT20 series are available
Japan, EU (27 countries), US, Taiwan, South Korea, Australia, Thailand, Malaysia, Indonesia, Singapore, China