AT20 series specifications

			Barcode model					2D Code mode											
								LED marker type						Laser guide marker typ				pe	
Туре			AT20B-SN	1(R) AT20	B-SM(U)	AT21B-SM(R) AT21B-SM(U)	AT20Q-SM(R)	AT20Q-SM(U)	AT21Q-SM(R) AT21Q-SM(U)	AT21Q-HM(R	AT21Q-HM(U)	AT25Q-SM(R) AT25Q-SM(U)	AT26Q-SM(R) AT26Q-SM(U) AT27Q-	SB ^{*1}
Scanner	Method		Advanced Scan Plus (CCD)					Area Sensor											
		2D Code	-						QR code, Micro QR code, SQRC, iQR, Data Matrix (ECC200), PDF417, Micro PDF417, Maxi code, Aztec, GS1 Compo									oosite	
	codes	Barcode	EAN-13/8 (JAN-13/8), UPC-A/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), UPC-A/E, UPC/EAN (with add-on), Interleaved 2 of 5 (ITF), Standard 2 of 5 (STF), CODABAR (N CODE39, CODE93, CODE128, GS1-128 (EAN-128), GS1 Databar (RSS)										NW-7),	
	Minimum	2D Code	-					0.167mm				0.1	25mm	0.167mm					
	resolution	Barcode	0.125mm									0.1	0mm	0.125mm			.125mm		
	Marke	er	-					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)													Confirmation LED Red, Orange), But 3-level volume con 3-level tone control	zzer (wit ntrol and		
Communication interface	Metho	d	RS-2320	C USB(C	OM, HID)"2	RS-232C	USB (COM, HID) ²	RS-232C	USB (COM, HID)"2	RS-2320	USB (COM, HID)"2	RS-232C	USB (COM, HID) ^{*2}	RS-232C	USB (COM, HID)*2	RS-2320	USB (COM, HID)	² Bluetooth Ver. based class	2.1+ED ss2
	Conne	ector	Dsub-98	S USB con	nector (A type)	Dsub-9S	USB connector (A type)	Dsub-9S	USB connector (A type)	Dsub-98	GUSB connector (A type)	Dsub-9S	USB connector (A type)	Dsub-9S	USB connector (A type)	Dsub-9S	USB connector (A type	e) —	
	Profil	е	_														SPP,H	ID	
	Cable		2m straight cable														-		
Power			Exclusive AC adapter	Supplied f connectio		Δ(1	Supplied from the connection target	AC:	Supplied from the connection target	Exclusive AC adapter	Supplied from the connection target		Supplied from the connection target	AC:	Supplied from the connection target	Exclusive AC adapter	Supplied from the connection target	(0.0.40	
	Opera	ting time ^{'3}							_										irs
Environment requirements	+ · · · ·	of, Drip-proof						IP42										IP54	
	Drop i resista	mpact ince ^{*4}					2.0 m/0.2 m × 100,000 times										1.8 m hight over floor with each o the enclosure fa	of 6 side	
	Operati	ng humidity						10 to 90% RH (without dews)											
	Operating) temperature						-5~50°C											
	Operatin	g illumination							0 to	0 10,000 lx	(Fluorescent I	amp in dayt	ime)						
Enclosure color				White Black			White Bla				ack		White Black			Whit	te		
Weight (excl. cable)			Approx. 105 g (excl. cable)						Approx. 110 g (excl. cable)								Approx. 200 g (i	ncl. bat	

*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



AT27Q-SB



For details on these products, see this webpage. http://www.denso-wave.com/en/adcd/

QR Code, SQRC, and Advanced Scan are registered trademarks of DENSO WAVE Incorporated.
 Appearance and specifications may be changed without prior notice for improvement.
 Data on this catalog are as of July 2014.

Product configuration

Optional accessories (Separately sold)

2D code model· 1D barcode model(standard type)

- Scanner
- Interface cable

Accessories

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

Bluetooth® model

- Scanner (Including battery SB-10L)
- Recharger (CH-AT10L)
- AC adapter
- Hang Strap
- Operation Guide
- Instruction manual
- Sluetooth communication unit (BA11-RKU) is separately sold
 Items with this mark can be downloaded
- on can be downloaded on our webpages for free.

• Stand • Hands-free stand [S-AT20 (White)] [H-AT20 (White)]

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

[S-AT20 (White)] [H-AT20 (White)] [S-AT21 (Black)] [H-AT21 (Black)] [H-AT20-2 (White)]



2

Bluetooth[®] model

• Hands-free stand [H-AT10]

Bluetooth communication

unit to communicate with

Non Bluetooth device[BA11-RKU]

• Stand[S-AT10]

S-AT20 (White) H-AT20 (White) H-AT20-2 (White) S-AT10 H-AT10 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)]

Exercise Content and Section Software [QR_kbif3.0]

DENSO WAVE INCORPORATED







 $\ensuremath{\overset{\scriptstyle \otimes}{_{\scriptstyle \rm T}}}$ For global use of the Bluetooth model, please contact us.

HANDY SCANNER

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2D code model

LED marker type
 AT20Q-SM (White)
 AT21Q-SM (Black)
 AT21Q-HM (high resolution)
 Laser guide marker type

SERIES

AT25Q-SM (White) AT26Q-SM (Black) AT27Q-SB(Bluetooth®)



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



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

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



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



You want to facilitate your task.

It is troublesome to consider scanning direction. **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.



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



NEWN It is convenient if there is a scanner compatible with any length of barcodes from small to wide barcodes. So Improved resolution useful for various businesses

The lineup includes a high resolution model capable of scanning barcodes of up to 0.10 mm and 2D codes of up to 0.125 mm. This specific model can be used in various environments, including factories, hospitals, and stores. #AT21Q-HM







It takes time to read multi-row barcodes.

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.

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 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.





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



Incorporated with many user-friendly and unique functions of DENSO

that you cannot carry.

One of the lightest products in this class

Weighing about 110 g, this model is one of the lightest products in this class. Users are less likely to feel fatigue even after many hours of use. (The Bluetooth model weighs about 200 g.)

Usable worldwide



Areas covered for the \Japan, Europe, Australia, AT20 series North America, and Asia

For details, please contact our sales staff. For global use of the Bluetooth model, please contact us.



Accidents may happen during your work. so Ability to withstand a 2-meter drop impact

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

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

so Smooth automatic scanning by attaching



ng by placing a label in view of the scan

When a label is placed in view scanning begins.

2.0



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

With no label present, the scanner is on standby

So Possible to read barcodes on mobile phone LCD screen



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



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



More efficient, more convenient

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

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You want to take pictures of bills used

So Easy-to-use image capture function



Bluetooth model (AT27Q-SB) can be wireless connected to a various devices

Connect to a table computer and smartphone

In addition to the SPP profile, AT27Q-SB supports the HID pfofile.

The HID profile allows the user to connect to not only a PC, PDA but a tablet computer, smartphone.



Long battery life + Rapid charge

Specialized charger (CH-AT10L) charges in 2.5 hours. Battery operation of up to 28 hours* allow the user to work a whole day

*With one reading pass over a 5s period.

