

***HIGH-SPEED  
SCANNING TO  
IMPROVE YOUR  
WORK EFFICIENCY***

HANDY SCANNER  
**AT20**  
SERIES



# AT20Q can read both 2D and 1D barcodes. It is a hybrid scanner with two functions.

## Easy to operate

### Incorporated with many user-friendly and unique DENSO functions



#### 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. The weight of the 1D barcode model is approximately 105 g.



#### 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.



#### 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.



#### 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.



#### Globally deployable

Available in more than 35 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.





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



### High-speed shutter & readability from any direction (360°) – 2D Model only

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



### Wide-angle scanning, improved readability

The number of horizontal pixels is increased and reading algorithms improved. Readability for wide barcodes is improved.



### 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.



### 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.



### 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 1D and 2D barcodes on mobile phone LCD screens. (2D model only)



### 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.



### 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. One jpg image can be transferred within one second using the USB connection.



## AT20 series specification

			Barcode model				2D Code model			
							LED marker type			
			AT20B-SM (White)		AT21B-SM (Black)		AT20Q-SM (White)		AT21Q-SM (Black)	
			RS-232C model	USBmodel	RS-232C model	USBmodel	RS-232C model	USBmodel	RS-232C model	USBmodel
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)
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)			
		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			
		Barcode					0.125mm			
	Marker		LED				LED 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) <sup>1</sup>	RS-232C	USB (COM, HID) <sup>1</sup>	RS-232C	USB (COM, HID) <sup>1</sup>	RS-232C	USB (COM, HID) <sup>1</sup>
	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)
	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
Environment requirements	Dust-proof, Drip-proof		IP42							
	Drop impact resistance <sup>2</sup>		2 meter x 1 time / 0.2 m x 100,000 times							
	Operating humidity		10 to 90% RH (without dew)							
	Operating temperature		-5~50℃							
	Operating illumination		0 to 10,000 lx (daylight Fluorescent lamp)							
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.

## Product configuration

### Accessories

- Interface cable
- AC adaptor (Only for RS-232C model)
- 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.o]

### 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)

### Toyota Tsusho ID Systems GmbH

Immermannstraße 65 B  
40210 Düsseldorf  
Phone +49 211 88252-450  
Fax +49 211 88252-502  
info@ttid-systems.com

[www.ttid-systems.com](http://www.ttid-systems.com)



Company Stamp