

[GT20 Series]
Hand-Held Scanner



**RUGGED,
HEAVY-DUTY
DESIGN**



Robust, impact-resistant construction



IP65 rating provides advanced protection in wet and dusty environments



Wide operating temperature range, from -4 to 122 °F (-20 to 50 °C)



Lightweight design reduces operator fatigue



360° scanning allows reading regardless of barcode orientation

1-D and 2-D models



HIGH RELIABILITY EVEN IN EXTREME CONDITIONS

Rugged and robust



Impact resistance

Withstands being dropped 60 times from a height of 2 m — the highest standard in its class

The GT20's highly durable design resists strong impacts, so you don't have to worry if you drop it.



Environmental resistance

IP65 protection rating

The GT20 is specifically designed for use in severe conditions, including dusty or wet environments.

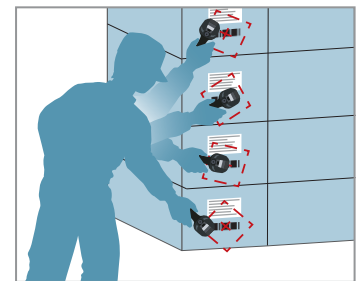


Operating temperature range

From -4 to 122 °F (-20 to 50 °C)

The GT20 can be safely used in situations with extreme temperatures, such as in cold storage chambers or semi-outdoor areas.

Outstanding reading performance



High-speed reading

Uses a powerful, proprietary reading algorithm created by the same manufacturer that developed the QR Code®

Smooth reading performance means less user stress, contributing to improved work efficiency.



LCD-screen reading

Unique LED lighting-control function enables easy reading of codes displayed on liquid crystal screens

The GT20 can read QR Codes displayed on a PC or tablet screen, increasing its application range.



Poorly printed label reading

Efficient at reading dirty and blurred codes

The GT20 has such a high reading performance that it can read even poorly printed codes very efficiently, allowing usage at sites with harsh conditions where codes easily become dirty.



360° reading*

Easy operation
Scanning can be carried out regardless of barcode orientation.

*2-D models only

Additional features



Targeted reading

Point-Scan Mode*

The GT20 can isolate and read a targeted code even when multiple codes exist in the reading area.

*2-D models only



One-time reading

Simultaneous reading of multi-row barcodes*

The GT20 can read up to three rows of a barcode at a time.

*2-D models only



One-time reading

Concatenated QR Code reading*

The GT20 can read a concatenated QR Code in a single scan.

*2-D models only

Outstanding operability



Reading confirmation

Double LED, beeper and vibrator

The GT20 offers reliable confirmation by light, sound or vibration, allowing use in noisy conditions.



Among the most light-weight designs in its class

Lightweight body weighs just 180g

The lightweight, compact design reduces operator fatigue, allowing use for long periods of time.



Area-guide marker*

Aiming pattern

Marker allows users to quickly identify reading area, making operation easier.

**2-D models only*



Suspendible

Built-in slot for suspension hook

Convenient slot for suspension hook allows the GT20 to be suspended from the ceiling, such as on a production line, where it is out of the way but easily accessible.



Cord lock

Locking cord connector

The robust, damage-resistant cord connector firmly locks the cord in place and prevents it from becoming detached during operation.

Enhanced functionality



Magic Key

Allows convenient one-touch access to user-assigned function

Data retransfer mode	Previously sent data is retransferred every time the Magic Key is pressed.
Designated character transfer mode	Predetermined characters are sent every time the Magic Key is pressed.
Read code switching mode (GT20Q only)	Two predetermined read codes are alternated every time the Magic Key is pressed.



Configuration software

Scanner Setting and Scanner Setting 2D software included

Free downloadable software allows easy configuration of reading condition, data format, etc., of the object to be read, thus reducing application development time.

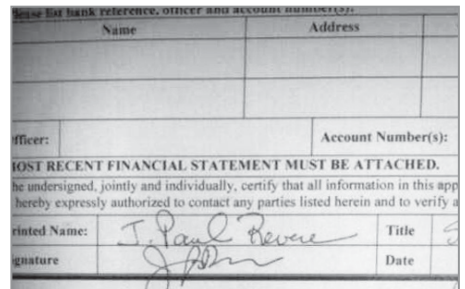


Image capture

Photo capability

When a non-conforming product is detected on a production line, for example, an image of the product can be captured by the GT20 on the spot and sent to its host.



ADF Script, data collection, verification and edit functions eliminate need to develop a dedicated application*

Compare registered master data with read data

The data verification and edit functions enable easy creation of systems for checking non-conforming products and incorrect labeling. In addition, the included ADF Script simplified programming software makes it easy to freely edit data, including data sorting, extraction and conversion.

**2-D models only*

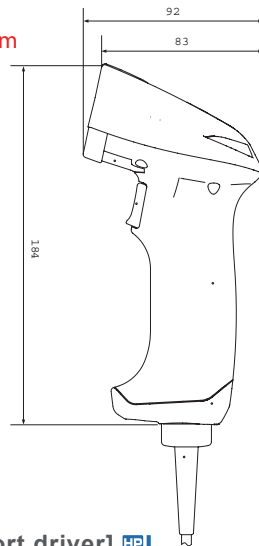
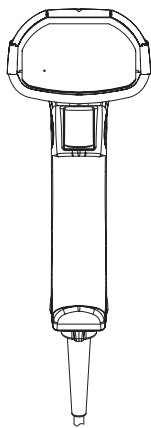
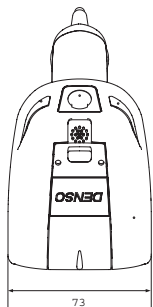
GT20 SERIES SPECIFICATIONS

			1-D model		2-D model	
Type			GT20B-SM (U)*1	GT20B-SM (R)	GT20Q-SM (U)*1	GT20Q-SM (R)
Scanner	Type		Advanced Scan* Plus (CCD)		Area Sensor	
	Readable codes	2-D	—		QR Code*, Micro QR Code, SQR*, iQR Code, Data Matrix (ECC200), PDF417, Micro PDF417, MaxiCode, Aztec, GS1 Composite	
		1-D	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), Code 32, Code 39, Code 93, Code 128, 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 (NW-7), Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 Databar (RSS)	
	Minimum resolution	2-D	—		0.167 mm	
		1-D	0.125 mm			
	Marker		—		Area guide marker	
	PCS value		Not less than 0.30			
	Scan angle		±50°			
	Skew angle		—		360°	
	Image capture		—		BMP, JPEG output, thumbnail view	
	Scanning confirmation		LED (blue, green, red), beeper (with 3-level volume control and 3-level tone control), vibrator			
Communication interface	Method	USB		RS-232C	USB	RS-232C
	Connector	USB connector (A type)		Dsub 9S	USB connector (A type)	Dsub 9S
	Cable	2 m		2 m, 5 m	2 m	2 m, 5 m
Power			Supplied from connection²	Direct AC adapter	Supplied from connection²	Direct AC adapter
Environmental requirements	Protection rating	IP65				
	Drop resistance³	60 times from 2.0 m onto a concrete floor				
	Operating temperature	-4 to 122 °F (-20 to 50 °C)				
	Operating humidity	10 to 90% RH (without condensation)				
Weight (excl. cable)			Approx. 180 g			

1. Two methods are supported: USB keyboard interface and USB-COM interface. Factory default is USB keyboard interface for GT20B and USB-COM interface for GT20Q.
 2. Check beforehand; this type of connection may not be possible depending on the model of the PC or USB hub.
 3. Test result at room temperature; not guaranteed.

Dimensions

Unit: mm



Software

- USB driver [Active USB-COM port driver] [HP↓](#)
- Setting software [Scanner Setting (for 1-D models)] [HP↓](#)
 [Scanner Setting 2D (for 2-D models)] [HP↓](#)
 [SQR Setting (for 2-D models)]
- Keyboard emulation software [QR_kbif] [HP↓](#)

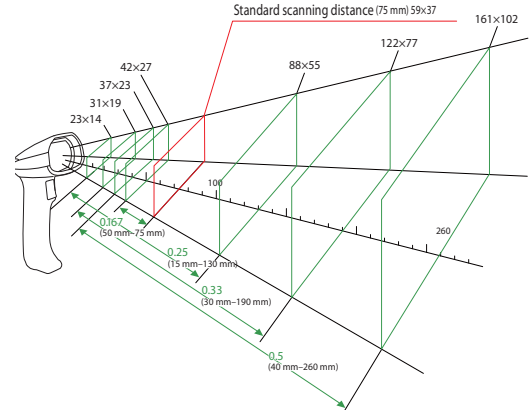
[HP↓](#) Items with this symbol can be downloaded free of charge from www.denso-adc.com.

- QR Code, SQR and Advanced Scan are registered trademarks of DENSO WAVE Incorporated.
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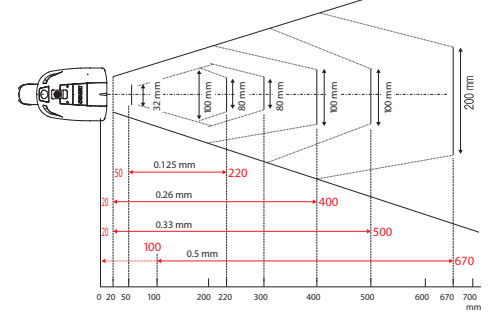
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Scanning Performance

2-D model



1-D model



Accessories

- Scanner
- Interface cable
- AC adaptor
- Operation Guide
- Instruction manual [HP↓](#)

Optional accessories (sold separately)

- S-GT20 (Stand)
- S-GT21 (Stand)
- H-GT10 (Hands-free stand)
- H-GT11 (Hands-free stand)
- H-GT20 (Hands-free stand)
- H-GT21 (Hands-free stand)



GT20 Web page

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DENSO



INVENTOR OF THE QR CODE®