DENSO

DENSO WAVE

SCANNER

# GT20

SERIES

Driven by quality.

## DURABLE, HEAVY-DUTY DESIGN

5 YEAR WARRANTY *

3 YEAR WARRANTY **

*For USB and RS232 model only
**For Bluetooth model only

# Outstanding Durability Even under Extreme Conditions

## Rugged Build Quality

### Drop impact resistance

**Highest standard drop test in the class of 60 drops of 2m.**
The GT20 has a highly durable design to withstand large impact giving peace of mind in the harschest of environments.

### Environmental resistance

**IP65**
The GT20 has an IP65 rating protecting it against water and dust ingress and so it can confidently be used in wet and dirty conditions.

### Operating temperature range

**Between -20 and 50˚C**
GT20 can be used in a wide variety of environments including cold storage facilities and outdoors in all seasons providing operators with a huge range of operating capabilities.

## Outstanding scanning performance

### High-speed reading

**The GT20 utilisis a powerful reading algorithm created exclusively by DENSO that delivers high speed, accurate first time read performance.**
Smooth reading that ensure efficient operations.

### LCD screen reading

**The original LED lighting control function enables smooth reading of codes displayed on a liquid crystal screen.**
GT20 can read QR Codes displayed on a PC or tablet screen, expanding the range of use for customers.

### Poorly printed label reading

**Efficient reading of damaged, dirty and poorly printed barcodes.**
GT20 has the capability to read barcodes that have been damaged, are dirty, faded or poorly printed ensuring operations can continued and improving productivity.

## Additional features!!

### Point Scan Mode

GT20 can read only the targeted code indicated by the central cross even when multiple codes exist in the reading area.

* 2D code models only

### One-time reading of multi-row barcodes

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

* 2D code models only

### Concatenated QR Code reading

GT20 can read a concatenated QR Code at one time.

* 2D code models only

## Outstanding operability

### Confirmation of reading

**Double LED, buzzer and vibrator incorporated**
GT20 allows secure confirmation by "light," "sound" and "vibration" even in noisy conditions.

### Lightweight Design

**Lightweight body weighing 180 g***
The lightweight and compact design can reduce fatigue when used for long periods. Its user-friendly body is highly durable yet lightweight.

* 230 g for Bluetooth® models

### Marker

**With an area guide marker**
The marker makes it easy for users to identify the reading area, enabling smooth operations.

* 2D code models only

### Suspensible

**GT20 has a hook so that it can be hung from the ceiling together with other jigs when used at plant lines, etc.**

### Code lock*

**The connector cover, which is resilient against becoming detached and breaking, firmly locks the cord.**
DENSO have designed a high quality, durable and secure connection between cable and scanner minimizing risk of damage or failure in its operating environment.

* USB and RS-232C models only

## Diversified functions

### Magic Key

**Work can become more efficient by allocating a convenient function to the Magic Key.**

| | |
|---|---|
| Data re-transfer mode | Previously sent data is re-transferred 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

**Free software applications "Scanner Setting" and "Scanner Setting 2D" are included, allowing easy configuration of the reading condition, data format, etc. depending on your requirements.**
These applications ensure quick and easy configuration.

### Image capture

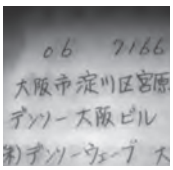


**Image shooting possible**
The powerful optical scanner is capable of capturing and transmitting images to the host ensuring damage to goods or unexpected products can be recorded.

* 2D code models only

### Bluetooth® available*

**Connectable to a tablet or a smart phone.**
Bluetooth® increases operating flexibility by linking with smart devices and through cordless operation.

* For Bluetooth® model only

### Equipped with data collation and edit functions Development of a dedicated application is not required

**Equipped with a function to compare the registered master data with the read data**
This function enables easy establishment of systems for non-conforming product checking and incorrect labeling checking. Furthermore, the simplified programming software application "ADF Script" makes it easy to edit data freely, including data sorting, extraction and conversion.

* ADF Script is supported by 2D code models only.

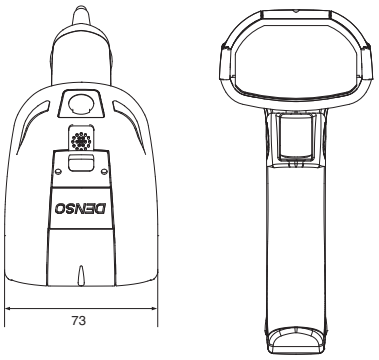
GT20 series specifications

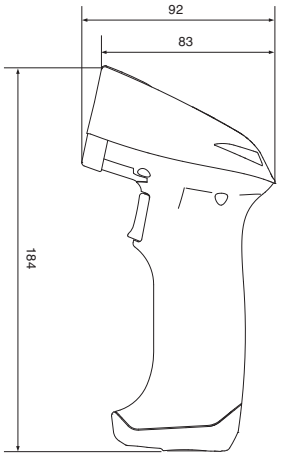
| Type | | | Barcode model (USB model) GT20B-SM (U)*1 | Barcode model (RS-232C model) GT20B-SM (R) | Barcode model (Bluetooth® model) GT20B-SB | 2D Code model (USB model) GT20Q-SM (U)*1 | 2D Code model (RS-232C model) GT20Q-SM (R) | 2D Code model (Bluetooth® model) GT20Q-SB |
|---|---|---|---|---|---|---|---|---|
| Scanner | Method | | Advanced Scan Plus (CCD) | | | Area Sensor | | |
| | Readable codes | 2D Code | — | | | QR code, SQRC, iQRcode, Micro QR code, Data Matrix (ECC200), PDF417, Micro PDF417, Maxi code, Aztec, GS1 Composite | | |
| | | 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) | | | 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), CODE39, CODE93, CODE128, GS1-128 (EAN-128), GS1 Databar (RSS) | | |
| | Minimum resolution | 2D Code | — | | | 0.167 mm | | |
| | | Barcode | 0.125 mm | | | | | |
| | Marker | | — | | | Area guide marker | | |
| | PCS value | | not less than 0.30 | | | | | |
| | Angle | | ±50°C | | | | | |
| | Skew angle | | — | | | 360° | | |
| | Image capture | | — | | | BMP, JPEG output, thumbnail view | | |
| | Scanning confirmation | | Confirmation LED (Blue, Green, Red), vibrator, Buzzer (with 3-level volume control and 3-level tone control) | | | | | |
| Communication interface | Method | | USB | RS-232C | Bluetooth® Ver. 2.1+ EDR based class 2 | USB | RS-232C | Bluetooth® Ver. 2.1+ EDR based class 2 |
| | Connector | | USB connector (A type) | Dsub-9S | — | USB connector (A type) | Dsub-9S | — |
| | Profile | | — | — | SPP, HID | — | — | SPP, HID |
| | Cable | | 2 m | 2 m, 5 m | — | 2 m | 2 m, 5 m | — |
| Power | Supply | | USB port *2 | Separate AC adapter | Built-in battery | USB port *2 | Separate AC adapter | Built-in battery |
| | Operating time*3 | | — | — | 100 hours | — | — | 28 hours |
| Environment requirements | Protection rating | | IP65 | | | | | |
| | Drop resistance*4 | | 2.0 m × 60 times on a concrete floor | | | | | |
| | Operating temperature*5 | | -20–50°C | | | | | |
| | Operating humidity | | 10 to 90% RH (without dews) | | | | | |
| Weight | | | Approx. 180 g (excl. cable) | | Approx. 230 g (incl. battery) | Approx. 180 g (excl. cable) | | Approx. 230 g (incl. battery) |

*1: Two methods are supported: a USB keyboard interface and a USB-COM interface. The factory default is a USB keyboard interface for GT20B and a USB-COM interface for GT20Q. *2: Please check the connection beforehand because this type of connection may not be possible depending on the model of the PC or USB hub. *3: When a code is read every 5 seconds *4: Result obtained in a test under regular temperature is shown and not meant as a guarantee. *5: For the Bluetooth® model, 0 to 40°C during battery charging

## Dimensions

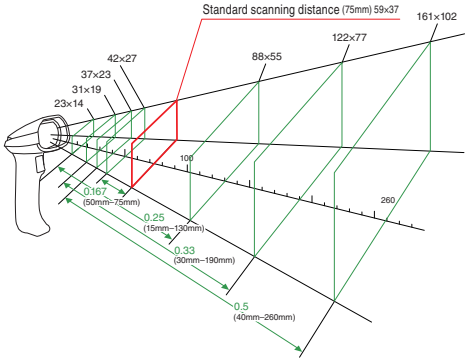
Unit: mm



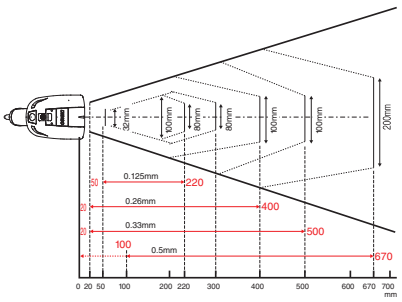




## Scanning performance

### 2D code model




### Barcode model




## Accessories

<USB model/RS-232C model>

Scanner Interface cable AC adaptor (RS-232C models only) Operation Guide Instruction manual

<Bluetooth® model>

Scanner (with battery) Battery charger AC adaptor Hand strap Operation Guide Instruction manual

* A communication unit (BA20-RU/BA11-RKU) is sold separately.

## Optional accessories (separately sold)

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)
CH-GT20L (Charger)
NSBHT-1300 (Neckstrap)
K-GT10 (Waist case)
BA20-RU/BA11-RKU (Bluetooth® communication unit)
* S-GT21 can be put on a table or hung on the wall.

## Software (separately sold)

USB driver [Active USB-COM port driver]
Setting software [Scanner Setting (for barcode models)]
[Scanner Setting 2D (for 2D code models)]
[SQRC Setting (for 2D code models)]
[BA Setting (for Bluetooth® models)]
Keyboard emulation software [QR_kbif]

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

www.sde-web.de

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