DENSO

Member of the TOYOTA Group

Scanner

GT20

SERIES

Driven by quality.

DURABLE,
HEAVY-DUTY
DESIGN

[Full size]
* Conceptual image

Outstanding Durability Even under Extreme Conditions

Rugged Build Quality

Drop impact resistance

2.0m

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

SPEED

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.

Targeted reading

* 2D code models only

One-time reading of multi-row barcodes

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

One-time reading

* 2D code models only

Concatenated QR Code reading

GT20 can read a concatenated QR Code at one time.

One-time reading

* 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.

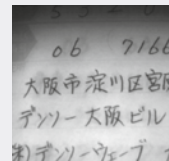|	
Data re-transfer mode	Previously sent data is re-transferred every time the Magic Key is pressed.
Designated character transfer mode	Predetermined characters are sent every time the Magic Key is pressed.
Read code switching mode (GT20Q only)	Two predetermined read codes are alternated every time the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

Configuration software

Setup from PC

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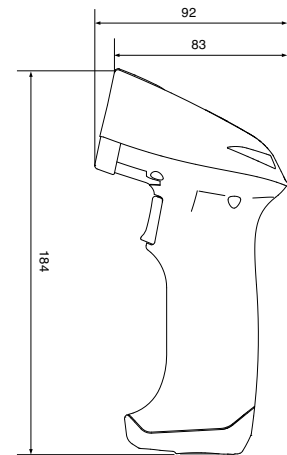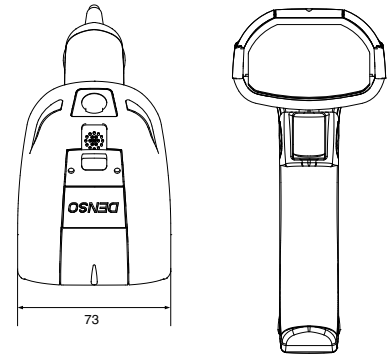** ADF Script is supported by 2D code models only.*

DENSO

SCANNER **GT20** SERIES

GT20 series specifications

Type			Barcode model			2D Code model		
			(USB model) GT20B-SM (U)*1	(RS-232C model) GT20B-SM (R)	(Bluetooth® model) GT20B-SB	(USB model) GT20Q-SM (U)*1	(RS-232C model) GT20Q-SM (R)	(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
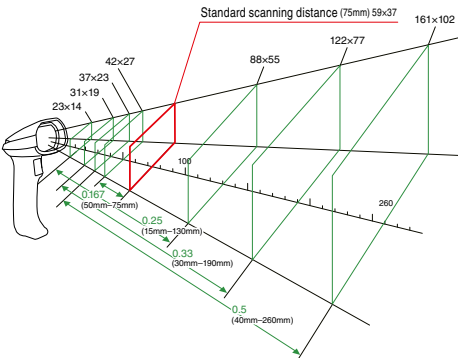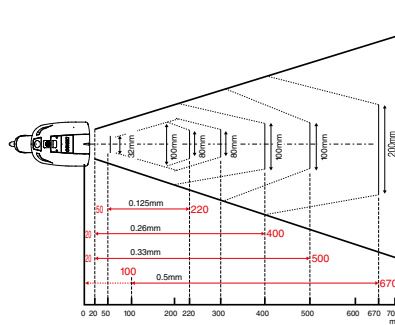
Dimensions

Unit: mm

73, 92, 83, 184

Scanning performance

2D code model

Standard scanning distance (75mm) 59×37
161×102
122×77
88×55
42×27
37×23
31×19
23×14
100
0.167 (50mm–75mm)
0.25 (15mm–130mm)
0.33 (30mm–190mm)
0.5 (40mm–260mm)
260

Barcode model

0.125mm 220
0.26mm 400
0.33mm 500
0.5mm 670
100
0 20 50 100 200 220 300 400 500 600 670 700 mm

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] HP↓
Setting software [Scanner Setting (for barcode models)] HP↓
 [Scanner Setting 2D (for 2D code models)] HP↓
 [SQRC Setting (for 2D code models)]
 [BA Setting (for Bluetooth® models)] HP↓
Keyboard emulation software [QR_kbif] HP↓

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

Accessories

<USB model/RS-232C model>

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

<Bluetooth® model>

Scanner (with battery)   Battery charger   AC adaptor   Hand strap   Operation Guide   Instruction manual HP↓
* A communication unit (BA20-RU/BA11-RKU) is sold separately.

DENSO WAVE INCORPORATED

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