System Configuration

Connections

External Bluetooth® Compatibility

Scanner (GT10Q-SB)

Unit charger   AC adaptor

AC100V-240V

AC adaptor (when connected to RS-232C)

AC100V-240V

Communication unit

RS-232C/USB I/F cable

Internal Bluetooth® Compatibility

Scanner (GT10Q-SB)

Unit charger   AC adaptor

AC100V-240V

Main Unit Set

Scanner (GT10Q-SB)   Unit charger (CH-GT10N)   AC adaptor

Accessories: Hand-strap & user's manual
Instructions
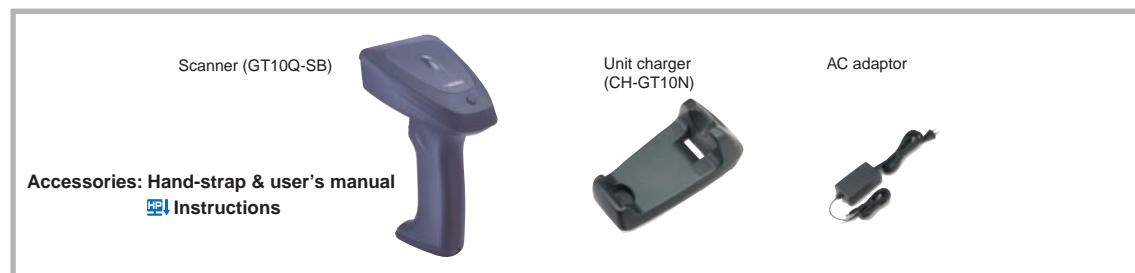
Communication Unit Set
*Select from one of the following options

RS-232C set

RS-232C cable

AC adaptor

Communication unit (BA10-RKU)

RS-232C set
(with built-in unit charger)

RS-232C cable

Communication unit (BA10-RKU)

USB set

USB cable

Communication unit (BA10-RKU)
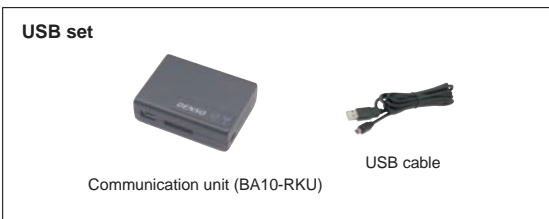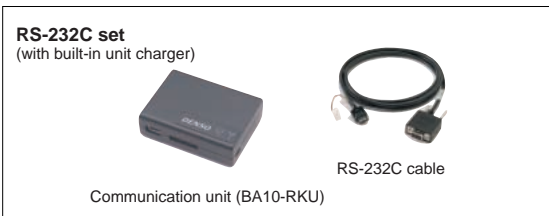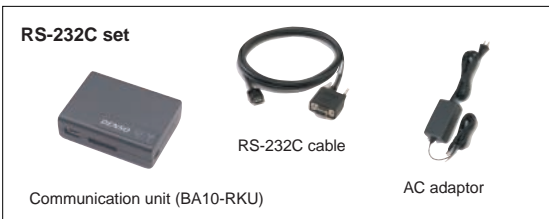
Communication Unit

-Compliant with multiple interfaces, including RS-232C, USB and keyboard I/F
-Ultra slim design takes up little space
-Further space can be saved by inserting the BA10-RKU into the unit charger (see diagram below).

BA10-RKU

CH-GT10N

Unit Charger

-Desk- or wall-mounted chargers are available.
-Rapid charging possible (approximately 2.5 hrs)

CH-GT10N

Desktop type   Wall-mounted type

GT10Q-SB

Specifications

			GT10Q-SB
Scanner	System		Area Scanning
	Scanning Area *1		59 mm x 44 mm
	Scannable codes	2D codes	QR Codes, Micro QR Codes, DataMatrix (ECC200), PDF417, Micro PDF, MaxiCode, EAN.UCC Composite
		Bar codes	EAN-128, UPC-A/E, UPC/EAN (with add-on codes), Interleaved 2 of 5 (ITF), CODE39, CODABAR (NW-7), CODE128 (EAN-128), RSS
	Resolution	2D codes	0.25 mm
		Bar codes	0.15 mm
	Scanning Confirmation		3-color LED (red, blue, and green), Buzzer (with volume control), vibrator
	Image capture function		Yes
	Marker		Area Maker
	PCS Value		0.45 Min.
I/F	Standard		Bluetooth® Ver1.1 Power class2
	Profile		Serial Port Profile (SPP)
Power Supply	Main Battery		Exclusive battery pack
	Operating Hours		Approx.8 hours
Environmental Requirements	Operating Temp.		0-50ºC *2
	Water- / Dust Proof		IP54 (Equivalent to JIS splash resistance)
	Shock Resistance *3		2 m (Concrete floor)
	Operating Humidity		10-90% RH (no condensation or frost)
	Operating ambient illumination		20-10,000 lux (Daylight florescent lighting)
Weight			Approx. 260g

* 1 Narrow bar width 0.5mm or over, ambient illuminance over 500lx. (standard position)
* 2 0–40°C for charging.
* 3 Tested value, not guaranteed.

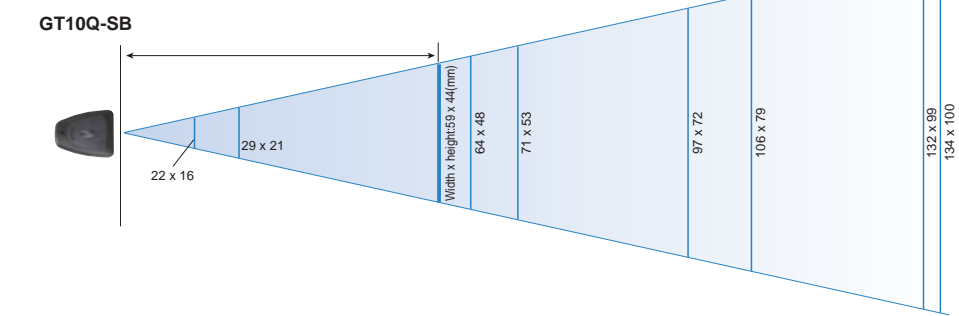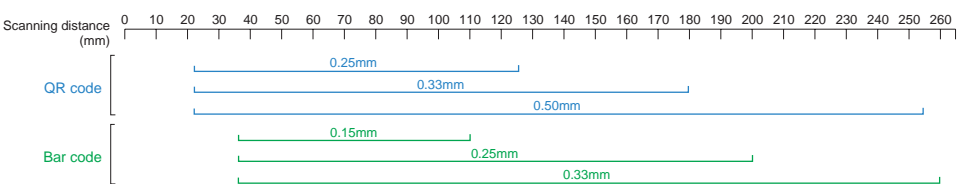### Communication Unit (BA10-RKU) Specifications

I/F	Between BA and host	RS-232C/USB
	Between GT10Q and BA	Bluetooth® Version1.1

Unit Charger (CH-GT10N) Specifications

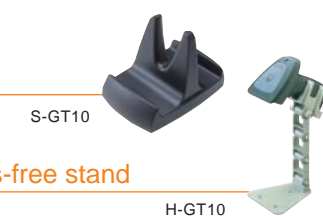|		
Charger	Charging time	Approx. 2.5 hrs
	Power source	AC adaptor

*Supports USB keyboard interface and USB-COM interface. To utilize in USB-COM interface mode, please download the USB driver from Denso Wave's webpage (free of charge).
*Connection may not be possible depending on the type of PC or USB-HUB being used. Prior confirmation of compatibility is required.

Scan Range

Scanning distance (mm)   0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260

QR code
0.25mm
0.33mm
0.50mm

Bar code
0.15mm
0.25mm
0.33mm

GT10Q-SB

22 x 16   29 x 21   Width x height(59 x 44)(mm)   64 x 48   71 x 53   97 x 72   106 x 79   132 x 99   134 x 100

Options

Stand
S-GT10

Hands-free stand
H-GT10

Neck strap
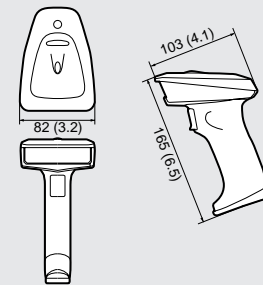
Hip case
K-GT10

Celling mounted stand
T-GT10

•The shape of the projected area marker differs according to the original target market.
This hand-held scanner with built-in area marker should not be used in the United States and Canada as it does not meet the specifications required for use there.
•Specifications are subject to change without notice.
•Information in this catalog is current as of March 2005.

Manufacturer : DENSO WAVE INCORPORATED [http://www.denso-wave.com/index-e.html]
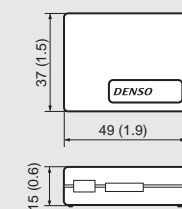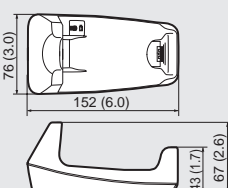Printed in Japan on 100% -recycled paper

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Dimensions

Unit: mm (inch)

GT10Q-SB

103 (4.1)
82 (3.2)
165 (6.5)

BA10-RKU

37 (1.5)
49 (1.9)
15 (0.6)

CH-GT10N

76 (3.0)
152 (6.0)
43 (1.7)
67 (2.6)

Software

Setup software (Scanner settings2D)

Keyboard I/F software [QR_kbif]
Receives data scanned by the GT10Q and transforms it almost as if the data was input via a keyboard

Items with this mark next to them can be downloaded free of charge from Denso Wave's website.

For Safe Operation
•Please read operation manual before use.

Bluetooth®--Facilitating smooth scanning operations
Presenting the new wireless 2Dcode scanner
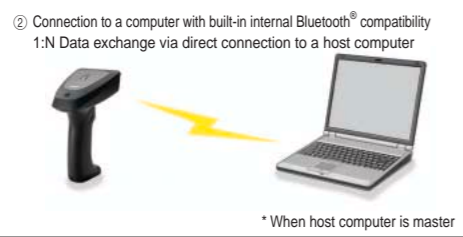
Bluetooth®

Even more freedom with Bluetooth®
The wireless 2Dcode scanner that is now even easier to use

Wireless

Connectable to a wide range of devices

● Built-in Bluetooth® wireless technology facilitates connection with a wide range of devices.

① Connection to a computer without built-in Bluetooth® compatibility
1:1 Data exchange with a host computer via a communication unit

Communication unit
(BA10-RKU)

② Connection to a computer with built-in internal Bluetooth® compatibility
1:N Data exchange via direct connection to a host computer

* When host computer is master

Improvement in workability with wireless connection

● Because there are no cables, the GT10Q can be installed anywhere (Min. 10 m, with no obstructions).

● Can be connected by simply scanning the bar code underneath the communication unit.

4 data-saving functions

❶ **No connection error**
Multiple units can be used simultaneously by specifying where to connect.

❷ **Transmission Confirmation (planned)**
Accurate data transmission possible with ACK/NAK protocol built-in.

❸ **Data Check (planned)**
Error correction code included in the data helps prevent missing and substitution of the data.

❹ **Scan Lock**
Prevents scanning in the event of disconnection.

Function to notify decline in battery voltage

● **Buzzer and LED alarm function to warn of decline in battery voltage (planned).**
An orange LED will flash at 200 mm second intervals and a buzzer will sound 5 times.

Extended operating time

● **Eight hours of operating time possible even with a constant Bluetooth® connection (at one scan per 5 seconds).**

Rapid Recharging

● **Battery can be charged in approx. 2.5 hrs with the exclusive unit charger (CH-GT10N).**

High Performance

Superior scanning performance

● Realizes rapid scanning of bother 2D and bar codes (twice the speed* of conventional units).
*: When scanning QR codes containing up to 150 characters of data.

● Improved scanning of poorly printed 2D code labels (Compared with other Denso models).

Diverse scanning features

● **Target Pointer Mode**
Enables pinpoint aiming and scanning, even with multiple codes in the scanning area.

● **Multiple Bar Code Scanning Mode**
Instantly scans multiple bar codes at once.

● **Bar Code Reader Mode**
Achieves high speed scanning equal to traditional linear-scanners.

● **Single Scanning Mode**
Realizes single scanning of QR code combinations.
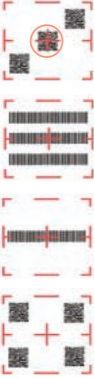
Durability

World-leading impact resistance

● With a stronger body and the use of impact-resistant rubber, the scanner can survive a 2 m drop–the highest standard in the world.

2m

Superior environmental endurance

● After many years of developing high quality technology, IEC International Standards Protection Class IP54 (equivalent to JIS splash resistance) has been achieved, preventing water and dust from infiltrating the scanner.

User-friendliness

Superior handling

● **Area Marker**
Laser illumination of scanning area and center of scanning area

Center of scanning area

Scanning area

● **Vibrator Function**
Scan completion confirmed by vibration

● **Adjustable Buzzer Volume**
3 levels of buzzer volume to suit the surrounding environment

● **Double-action Trigger Switch**
Aiming and scanning of codes is enhanced by utilizing a double-action trigger switch that displays the scanning area when the switch is partly depressed, and scans the code when it is fully depressed.

● **Tri-color Extra Bright LED**
Tri-color LED display that shows operation status

Blue: Scanning completed
Green: Processing completed
Red: Error

Simple setting with setup software

● **Setup Software Easy to Install**

(Setup method 1)
Setup can be achieved by printing out a one-step setup QR code from the software provided and scanning it with the GT10Q.

(Setup method 2)
With setup software, GT10Q parameter settings can be easily made via PC.

Superior Functions

Wide range of functions

● **Code Comparison**
Determines if a code being scanned matches a master code registered in the GT10Q.

Correct item check

① A shipping product 2Dcode from the shipping instructions is scanned, and registered as the master.

② A 2Dcode from the shipping product is scanned and compared to the master for shipping approval.

● **Data Editing Function**
Sorts scanned code data and prints out only necessary data.

① Data extraction
·Prints only what is necessary from the code data
0123456789 ➔ 789
(barcode data) (GT10Q output)
·EAN128 "AI shrinkage" also possible (AI30 shrinkage example)
(01)1234(30)0100 ➔ 0100
② Data addition
·Adds optional characters to the beginning or end of a string of characters
0123456 ➔ AAA0123456BBB

● **Software Trigger Function**
Scanning can be turned on/off via a host computer command.

Command control

* Cannot scan moving objects

● **Auto-sensing Function**
Automatically begins scanning when a label is detected.

If there is no label, the scanner is in stand-by.

Scanning begins when the label is tilted up.

Use of magic key

❶ **Wireless connection control**
Wireless connection can be disconnected by pressing and holding the magic key for a few seconds. Reconnect by switching the trigger ON.

❷ **Marker switch control for easier pinpoint scanning**

❸ **Code type switching**
Two types of code can be pre-registered to enable easy switching between the two types of code by turning the magic key ON.

❹ **Scanning ON/OFF feature**
Turn the magic key OFF to suspend scanning, and ON to resume.

❺ **Transmission of designated characters**
Data that is already stored (eg operations initiation code) can be sent by switching the magic key ON.

❻ **Retransmission of scanned data**
Scanned data can be retransmitted when the magic key is ON so the bar code does not need to be repeatedly scanned.

❼ **Activating and ending Bar Code Reader Mode**
Operation of a single magic key activates or ends Bar Code Reader Mode.