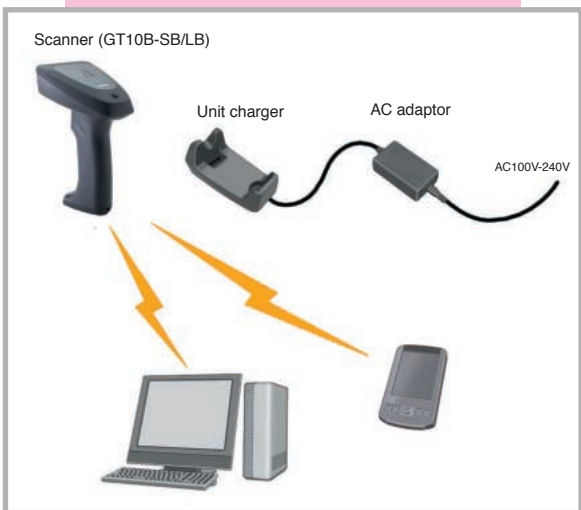# System Configuration

External Bluetooth® Compatibility — Connections — Internal Bluetooth® Compatibility
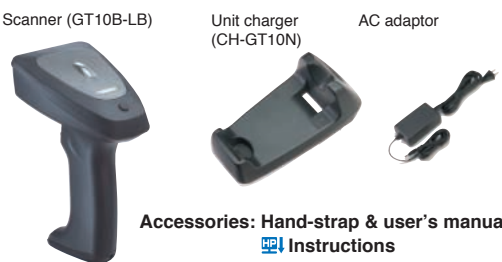
External Bluetooth® Compatibility

Scanner (GT10B-SB/LB)
Unit charger   AC adaptor
AC100V-240V
AC adaptor (when connected to RS-232C)
AC100V-240V
Communication unit
Keyboard I/F cable

Internal Bluetooth® Compatibility

Scanner (GT10B-SB/LB)
Unit charger   AC adaptor
AC100V-240V
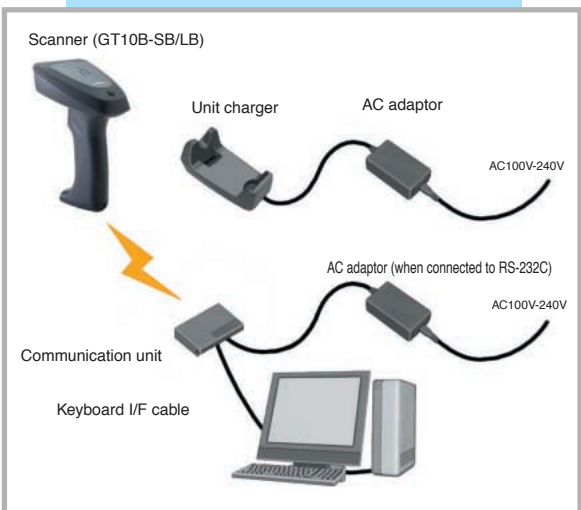
Main Unit Set * Select from one of the following options

GT10B-SB unit set (standard type)
Scanner (GT10B-SB)   Unit charger (CH-GT10N)   AC adaptor
Accessories: Hand-strap & user's manual
📖 Instructions
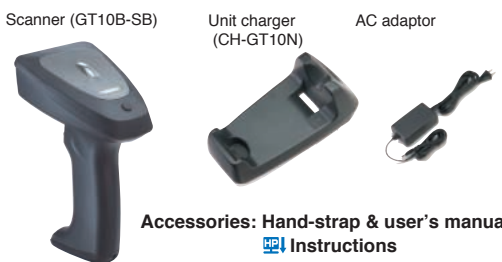
GT10B-LB unit set (long range type)
Scanner (GT10B-LB)   Unit charger (CH-GT10N)   AC adaptor
Accessories: Hand-strap & user's manual
📖 Instructions

Communication Unit Set * Select from one of the following options

RS-232C set
Communication unit (BA10-RKU)
RS-232C cable
AC adaptor

RS-232C set (with built-in unit charger)
Communication unit (BA10-RKU)
RS-232C cable

USB set
Communication unit (BA10-RKU)
USB cable

K/E set
Communication unit (BA10-RKU)
Keyboard I/F cable

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

DENSO

Specifications

		GT10B-SB (Standard Range Type)	GT10B-LB (Long Range Type)
Scanner	System	CCD	
	Scanning Area *1	350mm max.	700mm max.
	Scannable codes	EAN-128, UPC-A/E, UPC/EAN (with add-on codes), Interleaved 2 of 5, STF, CODABAR (NW-7) CODE39, CODE93, CODE128 (EAN-123), MSI, Plessey	
	Resolution	0.125 mm	0.19 mm
	Scanning	3-color LED (red, blue, and green)	
	Confirmation	Buzzer (with volume control), vibrator	
	PCS Value	≥0.45	
I/F	Standard	Bluetooth® Ver.1.1 Power class2	
	Profile	Serial Port Profile (SPP)	
Power Supply	Main Battery	Exclusive battery pack	
	Operating Hours *2	Approx.20 hours	
Environmental Requirements	Operating Temp.	0-40°C	
	Water- / Dust Proof	IP54 (Equivalent to JIS splash resistance)	
	Shock Resistance *3	2m	
	Operating Humidity	10-90% RH (no condensation or frost)	
Weight		Approx. 250g (incl. battery)	

* 1 Narrow bar width 0.5mm or over, ambient luminance over 500lx.
* 2 When scanning once in 5 seconds.
* 3 Tested value, not guaranteed.

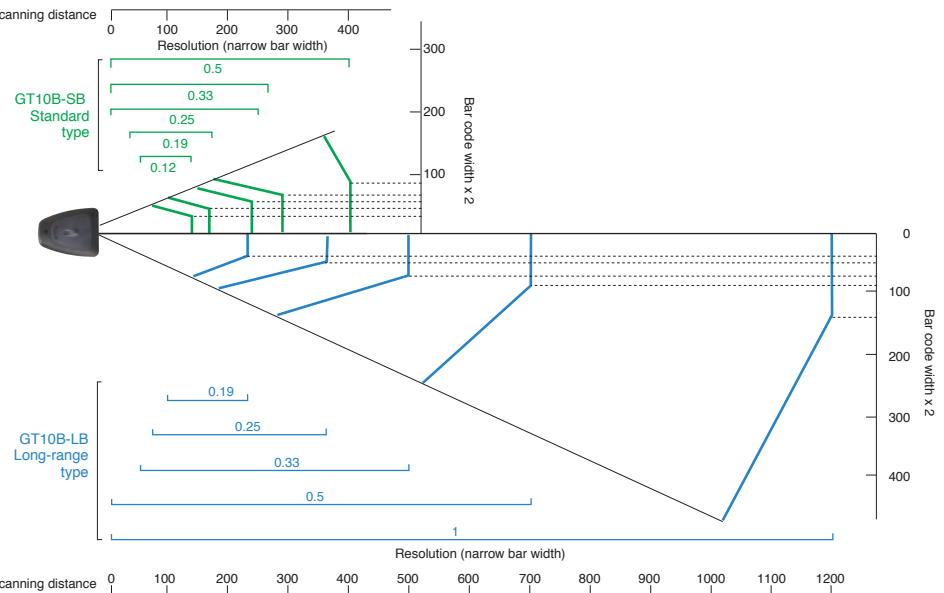### Communication Unit (BA10-RKU) Specifications

I/F	Between BA and host	RS-232C/USB/keyboard
	Between GT10B 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

GT10B-SB Standard type
Resolution (narrow bar width)
0.5 0.33 0.25 0.19 0.12
Scanning distance 0 100 200 300 400
Bar code width x 2   300 200 100

GT10B-LB Long-range type
0.19 0.25 0.33 0.5
Bar code width x 2   0 100 200 300 400
Resolution (narrow bar width)
Scanning distance 0 100 200 300 400 500 600 700 800 900 1000 1100 1200

Options

Stand
S-GT10

Hands-free stand
H-GT10

Neck strap
Hip case
K-GT10

Hand strap
T-GT10

For Safe Operation
· Please read operation manual before use.

· Appearance and specifications are subject to change without notice.

Manufacturer:DENSO WAVE INCORPORATED
Printed in Japan on 100% -recycled paper

GT10B-SB/LB

Dimensions

GT10B-SB/LB
Unit: mm (inch)
103 (4.1)
82 (3.2)
189 (8.6)

BA10-RKU
37 (1.5)
49 (2.0)
15 (0.6)
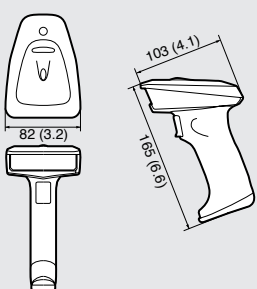
CH-GT10N
76 (3.0)
152 (6.1)
43 (1.7)
67 (2.7)
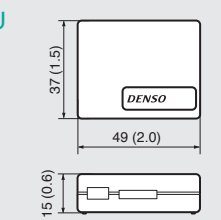
Software

📱 Setup software (Scanner settings)
📱 Keyboard I/F software [QR_kbif]
Receives data scanned by the GT10B 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.

Note regarding the use of the wireless LAN function

■Frequency
The 2.4 GHz frequency range used by this product may also be used in commercial, industrial and medical devices (license required in Japan). Before using this product, ensure that other RF systems are not being used close by. If other mobile ID systems are subjected to electrical interference from this product, promptly change the location that the product is used in, or stop the emission of radio waves from the product. If other mobile ID systems are subjected to electrical interference from this product, or any other problem should occur, please contact your salesperson.

■Types of radio wave and interference distances

Indicates wireless equipment operating at the 2.4 GHz bandwidth.
Indicates FH-SS modulation method application.
Indicates an anticipated interference distance of 40 meters or less.
Indicates use of all bandwidths, and that mobile ID system bandwidths can be avoided.

2.4 FH 2

· Information in this catalog is current as of November 2004

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DENSO

Wireless Barcode Handy Scanner
GT10B Series
GT10B-SB/LB

Bluetooth®--Facilitating smooth scanning operations
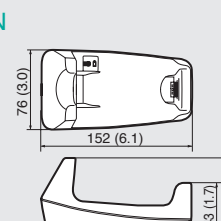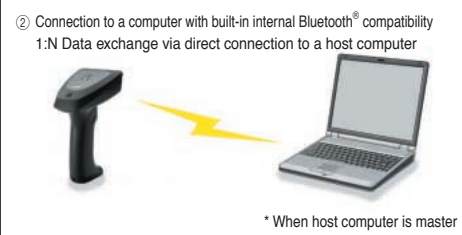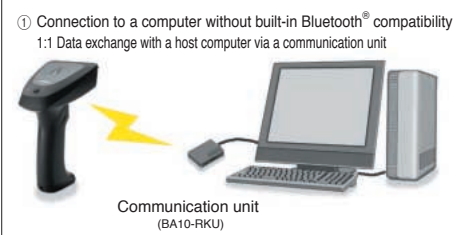**Presenting the new wireless barcode scanner**

Bluetooth®

Even more freedom with Bluetooth®
The wireless barcode 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 GT10B 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 5-second intervals and a buzzer will sound 3 times.

Extended operating time

● **Twenty 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 Efficiency

Outstanding scanning capability

● Scanning from a distance of over 1 m possible using CCD technology (with 1.0 mm narrow bar codes).

● Stable scanning of broad barcodes such as EIAJ labels or EAN128.

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

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

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

● **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 barcode from the software provided and scanning it with the GT10B.

(Setup method 2)
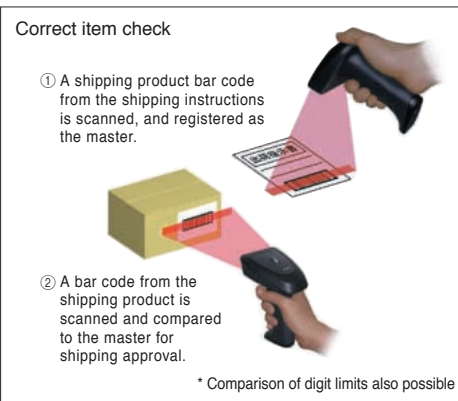With setup software, GT10B parameter settings can be easily made via PC.
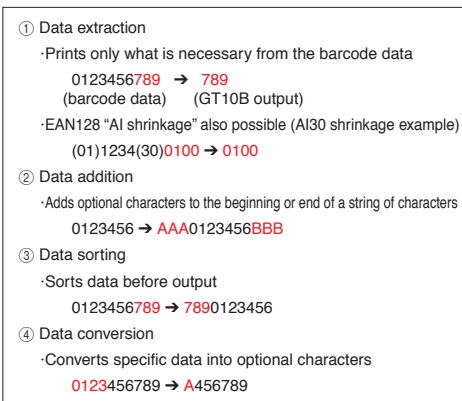
Superior Functions

Wide range of functions

● **Bar code Comparison**
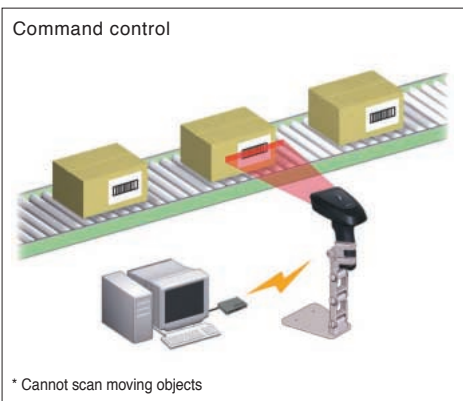Determines if a bar code being scanned matches a master bar code registered in the GT10B.

Correct item check

① A shipping product bar code from the shipping instructions is scanned, and registered as the master.

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

* Comparison of digit limits also possible

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

① Data extraction
·Prints only what is necessary from the barcode data
0123456789 ➜ 789
(barcode data)   (GT10B 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
③ Data sorting
·Sorts data before output
0123456789 ➜ 7890123456
④ Data conversion
·Converts specific data into optional characters
0123456789 ➜ A456789

● **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.
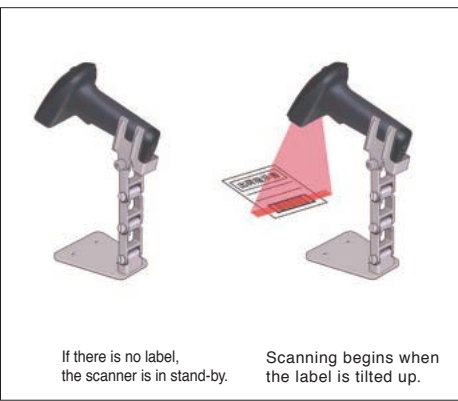
Use of magic key

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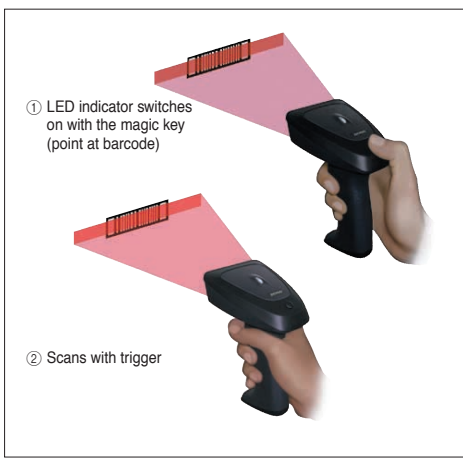
❷ **Transmission of designated characters**
Data that is already stored (eg operations initiation code) can be sent by switching the magic key ON.

❸ **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.

❹ **LED indicator**

① LED indicator switches on with the magic key (point at barcode)

② Scans with trigger