

DENSO

FIXED TYPE 2D CODE SCANNER

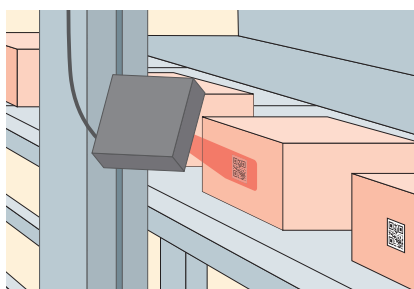
QB30 SERIES

Wide-field model QB30-SU
QB30-SR

Standard-range model QB31-SU
QB31-SR



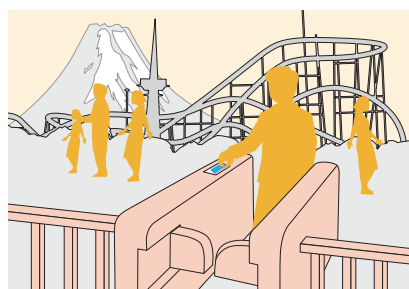
Two models available for a wide range of applications



On a plant line



As a kiosk terminal



For an entrance gate terminal

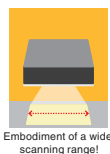
Scanning performance

Two models available, depending on the application

[QB30] Wide-field model with small footprint

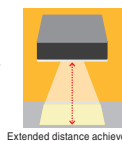
With its compact body and wide-angle lens, QB30 can be installed in a small space without needing to be a certain distance from the scanned object. It can reduce installation space when mounted on a kiosk terminal, allowing users to install it anywhere they wish.

* It is recommended to use a low-reflection coating plate in case you wish to install a plate on the scanning side.



[QB31] Standard-range model allows scanning from a distant position

With its deeper scanning field, QB31 can scan objects distant from it. It is perfect for plant production lines, thereby contributing to improved site productivity.



Full functions

Easy setup function adopted

"QB setting," which is a software application enabling users to easily set up scanning conditions and data formats according to the scanned objects, is provided free. It simplifies the troublesome setup process, reducing the user's burden at the time of introduction.

Data collation and edit functions adopted

The scanner features a function for collating registered master data (up to 50 items) with scanned code data, helping to build a system that checks for foreign articles prevents wrong labels from being affixed. Furthermore, since the scanner is compatible with the simplified programming language "ADF Script," data editing, including sorting, extraction and conversion, is possible, reducing the burden involved in development of higher level systems.

Internal environment performance

Safety function which blocks the intrusion of dirt and water drop

Materialized IP54, the protection rating of IEC. Shut out ingress of dust at the production line or rainwater at a semi-outdoor. It can be installed safely.



Operating temperature -20~50°C

It supports operating temperature of -20~50°C and can be installed safely at a semi-outdoor entrance gate.

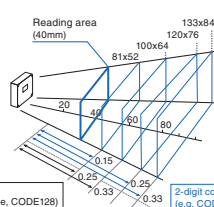
QB30 series specification

Type	QB30-SR (RS-232C model)	QB30-SU (USB model)	QB31-SR (RS-232C model)	QB31-SU (USB model)
Scanner unit	Readable code	2D code	QR code, micro QR code, SQRC, iQR, PDF417, micro PDF417, Maxi code, DataMatrix(ECC200), Aztec, GS1 Composite(EAN.UCC Composite)	QR code, micro QR code, SQRC, iQR, PDF417, micro PDF417, Maxi code, DataMatrix(ECC200), Aztec, GS1 Composite(EAN.UCC Composite)
	Barcode	2D code	Barcode	Barcode
	Minimum resolution	0.20mm	0.15mm	0.17mm
	Marker light	—	Visible semiconductor laser (red 1 mW max; JIS Class 2)	—
Scanning reference position	Scanning range ^{*1}	40mm	62mm x 39mm	90mm
	Label moving rate ^{*2}	800mm/s	—	500mm/s
	Lighting	White LED	—	Red LED
	Confirm scan	LED	One (Blue, green, red)	—
Interface	Interface	RS-232C (Mini D-sub 15-pin female) ^{*3}	USB	RS-232C (Mini D-sub 15-pin female) ^{*3}
	Cable length	0.5m	2m	0.5m
	Input	Trigger reset	—	Trigger reset
	Output	Scanning OK/NG, contrast OK/NG Sync signal of external lighting	—	Scanning OK/NG, contrast OK/NG Sync signal of external lighting
Power unit	Rated voltage	5V	—	—
	Power	Supplied from the higher-ranking equipment	—	—
	Operating button	1 button (Magic key)	—	—
	Batch reading of multiple codes	Maximum 8	—	—
Supplemental functions	Image storage	Maximum 10	—	—
	Operating temperature	-20~50°C	—	—
	Protection rating	IP54	—	—
	Enclosure color (front)	White	Black	—
Mass	Approximately 120g	Approximately 150g	Approximately 120g	Approximately 150g

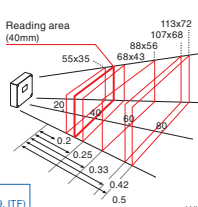
*1: Value at the scanning reference position *2: This is the reference value when a QR code with a cell size of 0.33 mm/Ver5 is scanned at the scanning reference position with the use of an exterior trigger, and is subject to change according to actual ambient conditions. *3: When the RS-232C model is connected to an external device by using the D-sub9PIN, a D15-to-D9S conversion cable and an AC adapter are required.

Scanning range and scanning depth

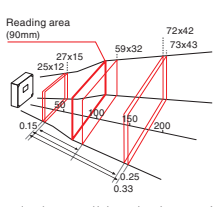
QB30 [Barcode]



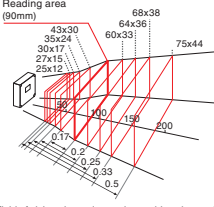
QB30 [2D code]



QB31 [Barcode]



QB31 [2D code]



* When a code to be scanned is larger than the scanner's field of vision, the code may be unable to be read.

Product constituents

Main body set

- Operation guide ● User's manual [PDF](#)

Option

- RS-232C D15P-to-D9S conversion cable* (CBQ3:RS2000/15-9-01 (2.0 m))
- AC adapter AD2-1005/3000*

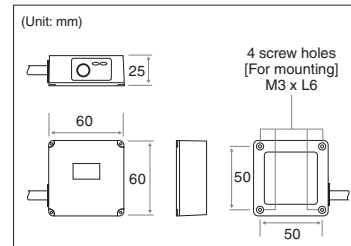
* Required when the RS-232C model is connected to an external device by using the D-sub9PIN.

Software

- USB driver [PDF](#)
- [Active USB-COM port driver]
- Setup software [PDF](#)
- [QB Setting]
- Keyboard emulation software [PDF](#)
- [QR_kbf]
- SQRC setup software
- [SQRC Setting]

[PDF](#) You can download the items with this mark from our website for free.

Dimensions



Caution for safe use

- Please carefully read the user's manual before using this product

- External appearance and specification can be changed without notice.
- Contents stated in this catalog is data as of December 2014.