DENSO
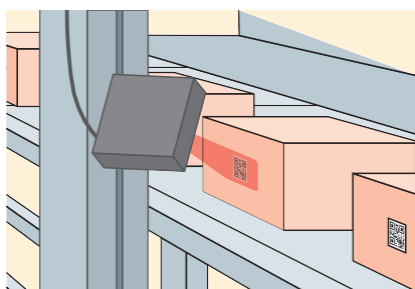
QB30
SERIES

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.

Embodiment of a wide scanning range!

[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.

Extended distance achieved!!

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.

What is **I P 5 4**

Dust protection: Dust-proof type
Protects against ingress of dust

Water protection: JIS splash proof type
Protects against splashing water

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)			
		Barcode	EAN-13/-8(JAN-13/-8), UPC-A/-E, UPC/EAN(Add an add-on), Interleaved 2 of 5, CODABAR(NW-7), CODE39, CODE93, CODE128, GS1-128, GS 1 DataBar(RSS)			
	Minimum resolution	2D code	0.20mm		0.17mm	
		Barcode	0.15mm			
	Marker light		—		Visible semiconductor laser (red 1 mW max; JIS Class 2)	
	Scanning reference position		40mm		90mm	
	Scanning range*1		62mm x 39mm		56mm x 30mm	
	Label moving rate*2		800mm/s	—	500mm/s	—
	Lighting		White LED		Red LED	
	Confirm scan	LED	One (Blue, green, red)			
		Buzzer	3-step volume control, 3-step tone control			
Interface	Interface		RS-232C(Mini D-sub 15-pin female)*3	USB	RS-232C(Mini D-sub 15-pin female)*3	USB
	Cable length		0.5m	2m	0.5m	2m
External input/output	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			
Supplemental functions	Operating button		1 button (Magic key)			
	Batch reading of multiple codes		Maximum 8			
	Image storage		Maximum 10			
Environmental performance	Operating temperature		-20–50°C			
	Protection rating		IP54			
Enclosure color (front)			White		Black	
Mass			Approximately 120g	Approximately 150g	Approximately 120g	Approximately 150g

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.

Product constituents

Main body set
● Operation guide ● User's manuale

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
  [Active USB-COM port driver]
● Setup software
  [QB Setting]
● Keyboard emulation software
  [QR_kbif]
● SQRC setup software
  [SQRC Setting]

You can download the items with this mark from our website for free.

Dimensions

(Unit: mm)

25
60
60
50
50

4 screw holes [For mounting] M3 x L6

Scanning range and scanning depth
(Unit: mm)

QB30 [Barcode]
Reading area (40mm)
133x8
120x76
100x6
4-digit code (e.g. JAN code, CODE128)

QB30 [2D code]
Reading area (40mm)
113x72
107x68
88x56
68x43
55x35
2-digit code (e.g. CODE39, ITF)

QB31 [Barcode]
Reading area (90mm)
72x42
73x4
59x3
27x1

QB31 [2D code]
Reading area (90mm)
68x3
64x36
60x33
43x3
35x24
30x17
27x15
75x4

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

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.

DENSO WAVE INCORPORATED

We Create [Value]²

MillionTECH Development Ltd.

Unit 509, 5/F, Tower II, Cheung Sha Wan Plaza, 833 Cheung Sha Wan Road, Kowloon, Hong Kong
Tel: (852) 2784 2868/ (852) 2788 3066 Fax: (852) 2319 2967
Email: sales@milliontech.com
Website: www.milliontech.com