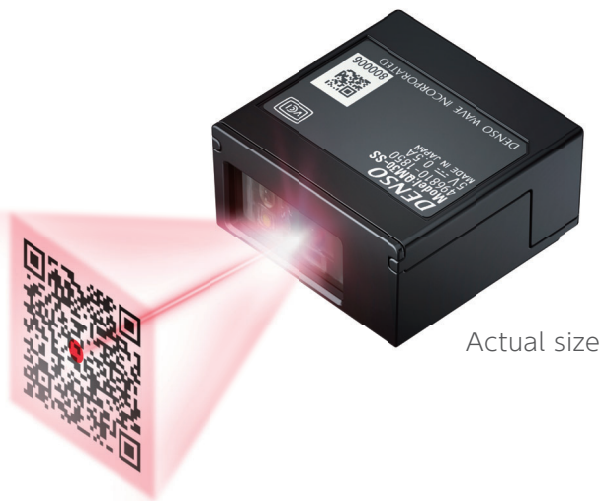# DENSO

FIXED TYPE SCANNER

QM30
SERIES

A New Ultra-Compact Scanner for Tiny Spaces

Actual size

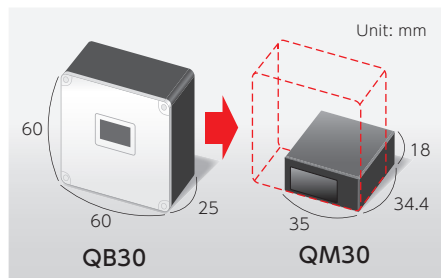Ticket vending machines

Test verification data management

Scanning coupons and
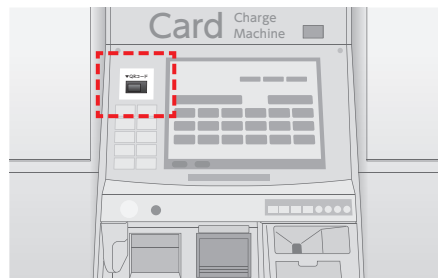QR codes for purchases

DENSO

FIXED TYPE SCANNER QM30 SERIES

Unit: mm

60
60
25
QB30

18
34.4
35
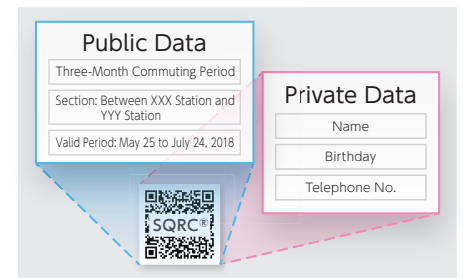**QM30**

DENSO WAVE's Smallest and Lightest Scanner Ever

The QM30 series is equipped with the newest module developed in-house by DENSO WAVE. The new module makes it possible to reduce the scanning lens surface area and shrinks the unit's volume to about 1/4* that of the previous product.
*Compared to QB30

Card Charge Machine

Compact Dimensions Ideal for Incorporation into Various Devices

At just 3.5 cm wide, the unit is ideal for incorporating into devices that couldn't otherwise accommodate a scanner. The QM30 helps design smaller scanner modules for space-saving installations.

Public Data
Three-Month Commuting Period
Section: Between XXX Station and YYY Station
Valid Period: May 25 to July 24, 2018
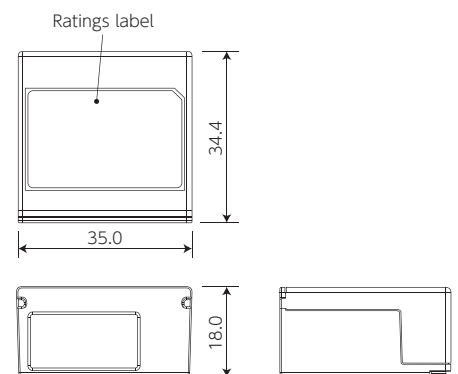
Private Data
Name
Birthday
Telephone No.

SQRC®

Supports New High-security QR Code

The QM30 supports SQRC* with its enhanced security features and can be used for authenticity verification of high-security member ID cards and similar applications. The QM30 also scans QR codes displayed on smartphones for payment purposes.
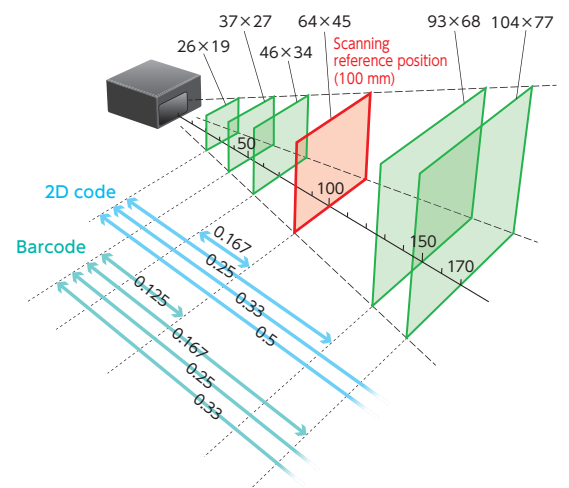
*SQRC is a type of QR code for storing two types of data (public data and private data) in a single code generated by DENSO WAVE's cloud services.

Specifications

Model			QM30-SS	QM30-SU
Scanner section	Readable codes	2D code	QR Code, Micro QR Code, SQRC, DataMatrix, PDF417, Micro PDF417, Aztec	
		Barcode	EAN-13/8, UPC-A/E, UPC/EAN (Add-on embedded), Interleaved 2 of 5, Codabar (NW-7), CODE39, CODE93, CODE128 (EAN-128), GS1 DataBar (RSS)	
	Minimum resolution	2D code	0.167mm	
		Barcode	0.125mm	
	Image sensor		480,000-pixel CMOS image sensor	
	Lighting		Red LED	
	Marker		Red LED	
	Field of view		Horizontal: 40°, vertical: 30°	
	LCD code		Supported	
	PCS value		0.30 or higher	
	Skew angle		360°	
	Elevation angle, inclination angle		±50°	
Communication interface	Method		Serial (TTL level)	USB 2.0 compliant (COM, HID)
	Connector		8-pin board to wire connector	USB connector, micro USB
Power, current consumption			5 VDC ±5 %, 500 mA (scanning), 180 mA (standby)	
Environmental performance	Operating humidity		10 to 90 % RH (no condensation or freezing)	
	Operating temperature		−10~50℃	
	Protection rating		−	
	Drop resistance		−	
External dimensions			35.0(W)×34.4(L)×18.0(H) [mm]	
Weight			Approx. 18 g	
Color			Black	

External dimensions (Unit: mm)

Ratings label

34.4

35.0

18.0

Software

■ USB driver (Active USB-COM Port Driver) HP⤓
■ Setting software (Scanner Setting 2D) HP⤓
■ SSQRC scan setting software (SQRC Setting)
■ Keyboard interface software (QR_kbif) HP⤓

HP⤓ Software programs indicated by this symbol can be downloaded free of charge from our website (QBdirect).

Option

■ Micro USB cable (CB00-US1500/4A-5B-01)

Scanning range and field of view (Unit: mm)

26×19   37×27   64×45   93×68   104×77
46×34   Scanning reference position (100 mm)

2D code
Barcode

50
100
150
170

0.167
0.25
0.33
0.5
0.125
0.167
0.25
0.33

Scanner specifications are values obtained under an ambient light intensity of 500 lx or lower.
Depending on light source position, angle to the label surface, and other factors, specular reflections may prevent scanning in certain cases.
Close-distance scanning may be restricted in certain cases, depending on scanning field of view.

Embeddable products

Wide-angle/long-distance model
QB30

Capable of scanning QR codes displayed on LCD screen
QK31

Passport scanner
FC1

For product purchase or inquiries, please contact: