# 2D CODE SCANNER
# QS20H

## Specifications

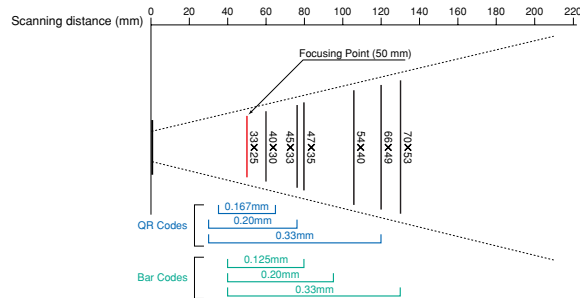| Scanning Performance | | | QS20H-I (Standard) | | QS20H-HD (High-Density) | |
|---|---|---|---|---|---|---|
| | | | QS20H-I-R (RS-232C Type) | QS20H-I-U (USB Type)*1 | QS20H-HD-R (RS-232C Type) | QS20H-HD-U (USB Type)*1 |
| Scanning Performance | Scannable codes | 2-dimensional codes | QR Codes, micro QR Codes, DataMatrix (ECC200), PDF417, MaxiCode | | | |
| | | Bar codes | EAN-13/8, UPC-A/E, Interleaved 2 of 5, CODABAR (NW-7), CODE 39,CODE 128 (EAN-128) | | | |
| | Resolution | 2-dimensional codes | 0.25 mm | | 0.167 mm | |
| | | Bar codes | 0.15 mm | | 0.125 mm | |
| | Image capture function | | Yes | | No | |
| | Focusing Point | | 75 mm | | 50 mm | |
| | Pointer | | Triple Pointer | | | |
| | PCS Value | | 0.45 Min. | | | |
| | Skew Angle | | 360 degrees | | | |
| | Elevation and Inclination | | ±35 degrees | | | |
| Interface | System | | RS-232C | USB 1.1 Compliant | RS-232C | USB 1.1 Compliant |
| | Speed | | 115.2 kbps Max. | – | 115.2 kbps Max. | – |
| | Connector | | D-sub, 9-pin (female) | USB Type A | D-sub, 9-pin (female) | USB Type A |
| Power source | Power supply | | AC Adapter | Supply from connected device | AC Adapter | Supply from connected device |
| Environments | Operating temperature range | | 0 - 40°C | | | |
| | Operating humidity range | | 10 – 85% RH (without dew condensation) | | | |
| | Ambience | | 20 – 10,000 lux (Under daylight or fluorescent light) | | | |
| Weight*2 | | | Approx. 135 g | | | |

*1: Connection may not be possible depending on the type of PC or USB-HUB being used. Prior confirmation of connection compatibility is required.
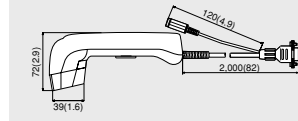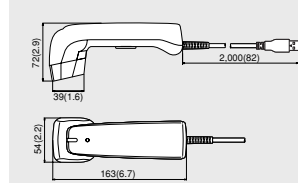*2: Excluding cable.

## Scanning Performance

### QS20H-I



QR Codes
- 0.25mm
- 0.33mm
- 0.50mm

Bar Codes
- 0.15mm
- 0.25mm
- 0.33mm

### QS20H-HD



QR Codes
- 0.167mm
- 0.20mm
- 0.33mm

Bar Codes
- 0.125mm
- 0.20mm
- 0.33mm
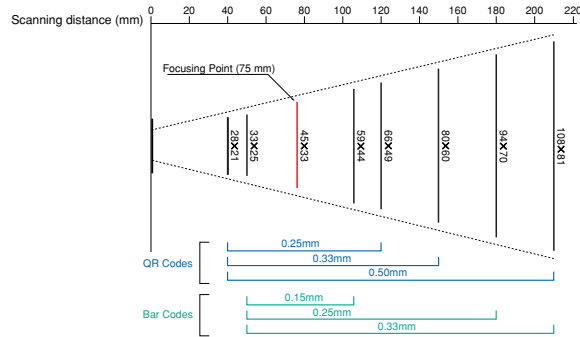
## Dimensions

Unit mm (Inch)

### QS20H-I/QS20H-HD (RS-232C Type)



### QS20H-I/QS20H-HD (USB Type)



## Accompanying accessories

- QS20H-I-R/QS20H-HD-R
  User's manual
- QS20H-I-U/QS20H-HD-U
  USB Driver (CD-ROM), User's manual

**For further details**

Appearance and specifications are subject to change without notice. Information in this catalog is current as of March 2003.

# Suitable for a wide range of applications

**Compact size and lightweight, the QS20H achieves superior functionality**

## Outstanding readability for all types of two-dimensional codes, including bar codes and QR codes

### Superior Reading Speed

DENSO has utilized advanced reading technology to develop the QS20H to provide an advanced solution for 2D codes

### Stable Reading of Inferior Labels

Thanks to advanced image processing technology, the QS20H reads dirty and damaged codes correctly every time.

### Reading of Even Micro 2D Code (QS20H-HD)

With its high-resolution of 0.167mm, QS20H-HD is the perfect solution for reading micro 2D codes.

### Capable of Reading All 2D Codes and Bar Codes

QS20H series is omni directional, making it a highly versatile solution for all your 2D reading requirements.

### Stable Reading in Bright or Dark Operating Conditions

Using a scan algorithm function, the QS20H ensures superior reading in all light conditions.

## Superior Features

### Easy-targeting Triple Pointer

Centre of Scanning Area
Scanning area

Centre of Scanning Area
Scanning area

Triple Pointer indicates the centre of the scanning area as well as the readable code size, making targeting and reading easier.

### Slim body and compact design, QS20H weighs a mere 135g

### Built-in Image Capture Function (QS20H-I)

The extra application available in the QS20H-I series is the built-in image capture function, which enables it to capture data images such as name stamps and hand written signatures

### USB Interface

USB model is also available in addition to the conventional RS-232C interface

## Application Example

### Order Receipt and Dispatch

By converting order receipt and dispatch form content to QR code, implementing a low-cost order processing system that does not require a network is possible.

### Process Management

By converting production instruction content to QR code, implementing an accurate and efficient process management system is possible.

### Shipping & Receiving Management

By converting ID tags, delivery slips and details of mixed deliveries to QR code, speedy shipping and receiving management can be achieved.