

DENSO
DENSO WAVE

RFID TABLE SCANNER®

UR20
SERIES



FOR SMART SCANNING:
ULTRA-THIN IT CAN BE
USED ANYWHERE.

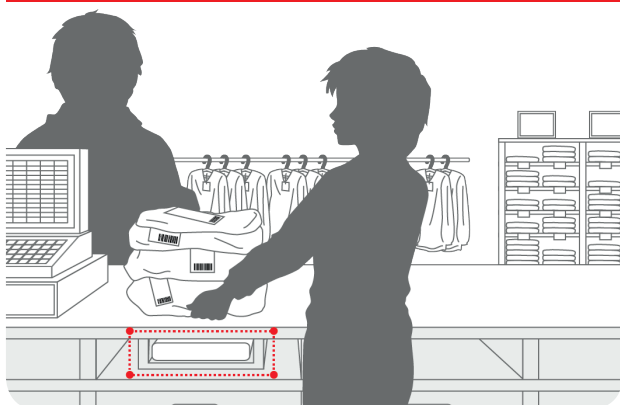


Speed up your business - with RFID.

UR21 - To avoid checkout queues.

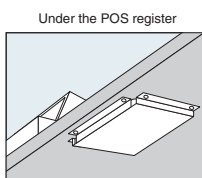
With the UR21 RFID table scanner[®] there is no need to read manually each RF tag. The checkout procedure can be completed quickly by just scanning products on the counter.

Checkout procedure can be completed quickly



Additional installation at an existing POS register

The combination of a small controller and a thin antenna avoids problems in finding an installation location. A dedicated antenna fixture is also available.



Antibacterial body remains in clean condition

JISZ2801-compliant antibacterial materials are used, so the scanner can remain clean when used for a long period of time. The materials are also weather-proof, keeping the product from discolouring.

No simultaneous reading of products on adjacent check-out counters

The communication range is approx. 80 cm, which is an ideal environment for POS registers. To avoid reading RF tags of products on adjacent checkout counters, the communication range can be adjusted arbitrarily according to the user environment.

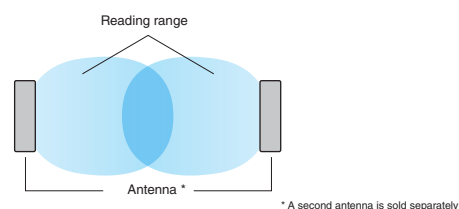
Easy connection

To use table scanners from a POS application in the same manner as barcode scanners, an OPOS driver* is also available. It helps users connect the table scanner[®] directly to a POS register.

* For Windows only

Using two-antennas helps expand the reading area

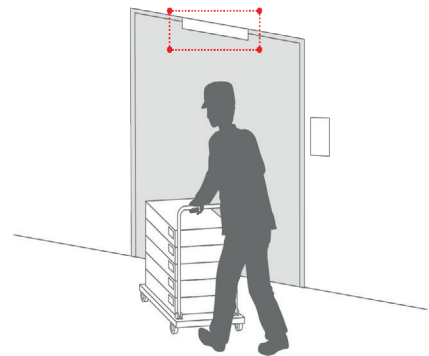
Two antennas can be connected to one controller, covering a wider range and expanding the customer usage range.



UR22 - To avoid waisting time during storage and retrieval of goods.

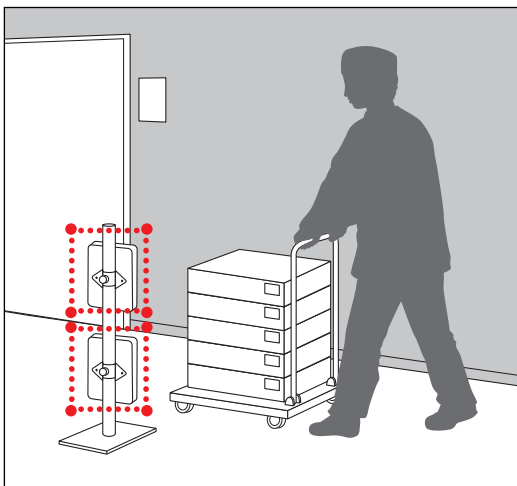
With the UR22 RFID table scanner®, information on tags can be collected by going through the storage / retrieval gate. There is no need for each RF tag to be read manually.

Collect RF tags data by just going through the gate



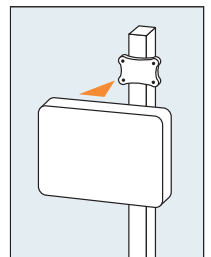
Perfect for installation at a storage / retrieval gate

The communication range is approx. 2.5 meters. With this long-distance reading capability it can smoothly read RF tags that are attached to cargo at the bottom of a pallet, and also when the scanner is installed on the upper part of a gate. Furthermore, a circular polarized antenna enables 360° reading of RF tags. Users don't have to care about the position of RF tags. The communication range can be changed freely, enabling adjustment of the range according to the user environment.



Can be installed anywhere

The combination of a small controller and a thin antenna avoids problems in finding an installation location. The screws that are supplied for for securing the antenna make it easy to install this product on a VESA-compliant fixed stand.



Single PC can control several devices

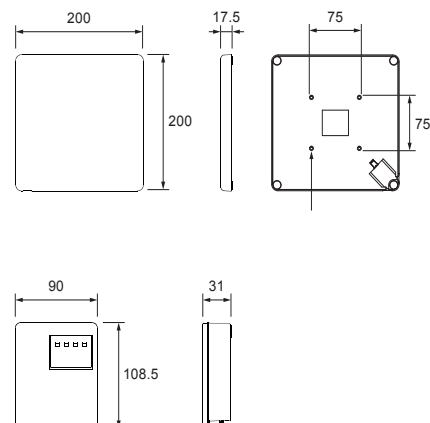
By using an Ethernet interface, several devices can be controlled by single PC, even if they are distant from one another.



UR20 Series specification

| Mode | | UR21-MR-01*1 | UR22-MR-01*1 |
|-------------------------|------------------------------------|---|---|
| RFID | Readable and recordable RF tag | ISO/IEC 18000-63 TypeC (EPC global Class1 Gen2) - supported tag | |
| | Frequency (EU) | 865.7 - 867.5 MHz | |
| | Channel width / number of channels | 600 kHz / 4 ch | |
| | Transmission output | 500 mW ERP | |
| | Modulation method | PR-ASK | |
| | Transmission rate | 40 kbps | |
| | Reading distance*2 | 0 - 800 mm (Avery Dennison AD-229r6) | 0 - 2500 mm (Avery Dennison AD-229r6) |
| | Output adjustment | 5 - 23 dBm | |
| LED indication function | | PW (green), COM (red), ANT1 (orange), ANT2 (orange) | |
| Interface | | RS 232C (D-SUB 9P), USB (mini USB B Type) | LAN (RJ45), USB (mini USB B Type) |
| Power | Power supply | Custom AC Adapter (100 V) | |
| | Current consumption | 1300 mA MAX (excluding inrush current) | |
| Operating temperature | | 0° to +40° C | -5 to +50° C |
| Dimensions | | Controller: 90 x 108.5 x 31 mm Antenna: 200 x 200 x 17.5 mm | |
| Weight | | Controller: approx. 130 g Antenna: approx. 360 g | Controller: approx. 130 g Antenna: approx. 400 g |
| | | | |
| Components | Controller | 1 (incl. a rear cover and screws for securing the rear cover) | |
| | Antenna | 1 (with VESA-compliant screw holes) | |
| | Antenna cable | Double-end RF connector (GT27) cable (200 cm long) | |
| | Antenna securing screws | 4 | |

DIMENSIONS (Unit mm - for reference only)



*1: Do not connect an antenna, a controller or cable that is not specified by DENSO WAVE.
*2: Network range may vary according to target tag. Network range is a reference value and this may vary accordingly, depending on the actual environmental conditions.

The set includes

UR21-MR-01

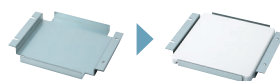
- Controller (URCT-M21)
- Antenna (URAN-R2)
- Antenna cable (Antenna - Controller)
- Safety Precautions
- Screws for securing the antenna

UR22-MR-01

- Controller (URCT-M22)
- Antenna (URAN-R3C)
- Antenna cable (Antenna - Controller)
- Safety precautions
- Screws for securing the antenna

ACCESSORIES (Sold separately)

- Antenna fixture (B-URANR1-01)



- Antenna for UR21 (URAN-R2)
- Antenna for UR22 (URAN-R3C)
- Antenna cable (CBAN-CGT272000/GT27-01)
- AC Adapter

Software (Sold separately)

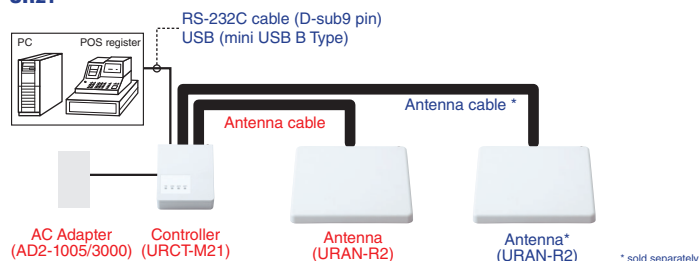
- OPOS Driver (POS Connection / Windows Version)
- Control Command DLL File 

System configuration

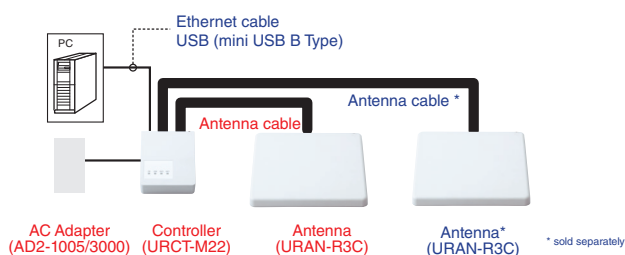
Items that are included in the set are indicated in red.

- Instruction manual 

UR21



UR22



Items with this mark are available from the DENSO WAVE website (QBdirect) free of charge.

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