

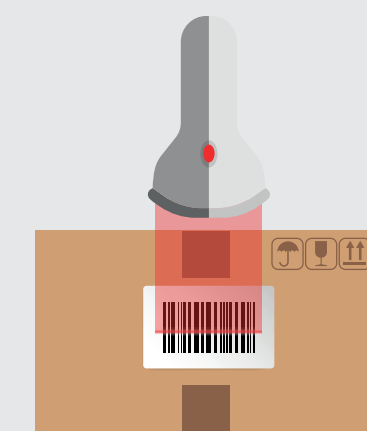
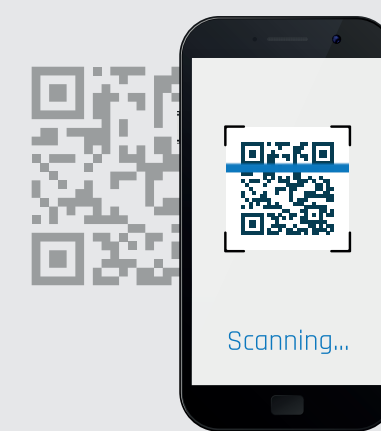
IDENTIFICATION SYSTEMS

Why and for what?

The identification systems have been created by the need to COLLECT INFORMATION, both during the manufacturing processes and during the logistics processes. They provide updated information for CONTROL , MONITORING  and TRACEABILITY. 

These systems require...

- Coded label: Element containing the information.
- Reading device: Element with the capacity to recognize and read that information.



Agents required for operation:

- **Barcode:** stores the information.
- **Laser:** captures information by pulse of light.
- **Software:** decodes the barcode symbology.

 Accuracy, precision and reliability.

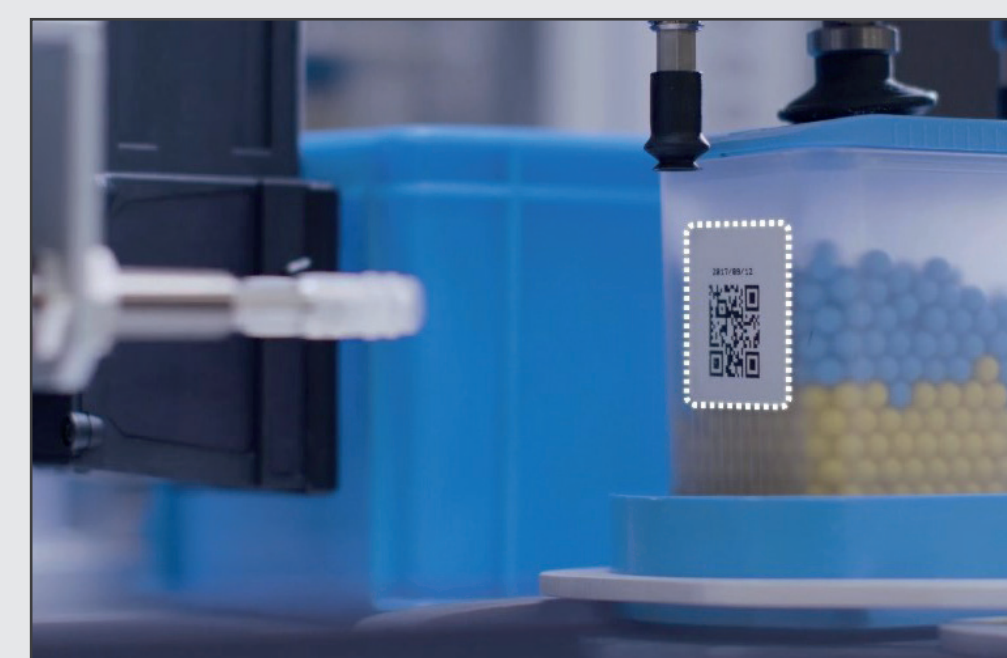


Agents required for operation:

- **Dot matrix:** stores the information.
- **QR reader:** specific reader.

 High speed reader.

 High capacity of data storage.



Agents required for operation:

- **Tag:** microchip + radio antenna. Stores the information.
- **Reader / writer device:** Reads and/or writes the information and converts it to a format usable by the system.

 Remote, non-contact identification of objects.

 Reading by radio waves.



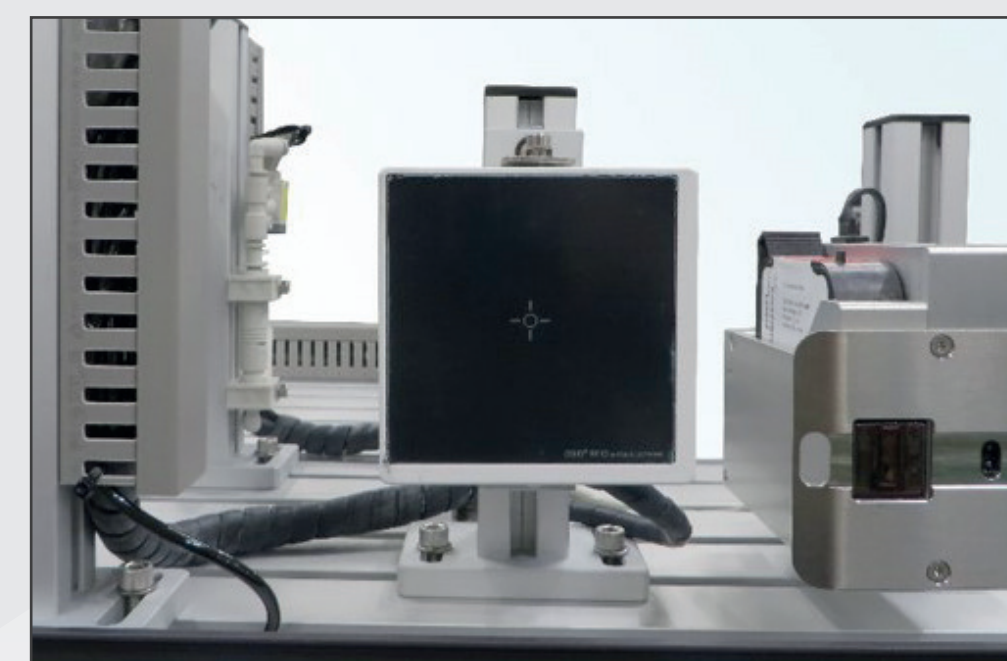
Agents required for operation:

- **NFC device:** can be both reader and tag.

 High data transmission speed.

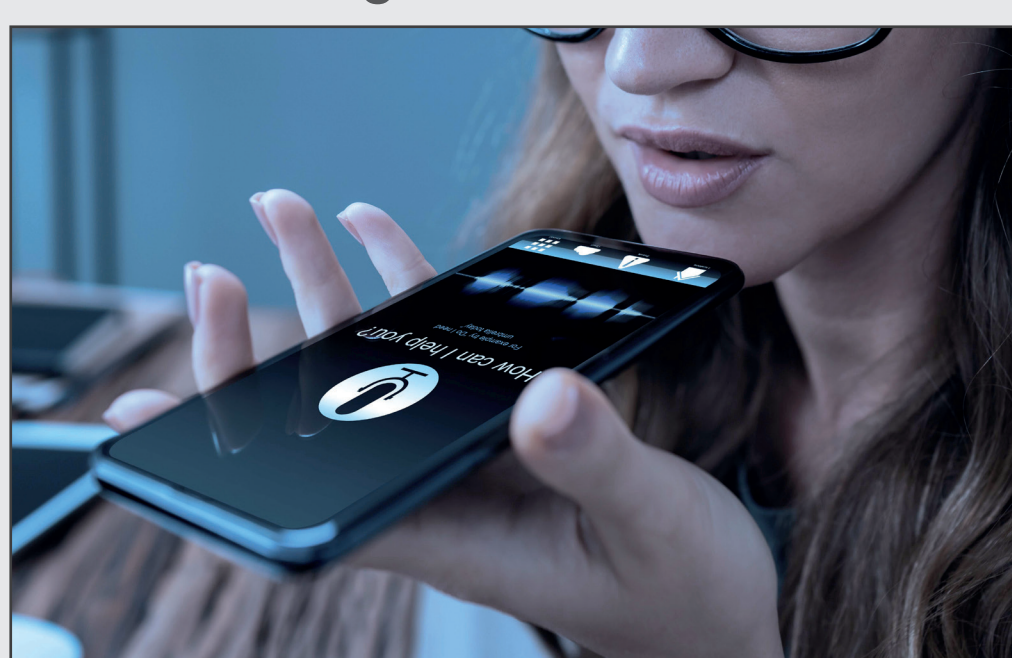
 Send and receive information simultaneously.

 Range of a few centimetres (max. ~20cm.)



Other identification systems

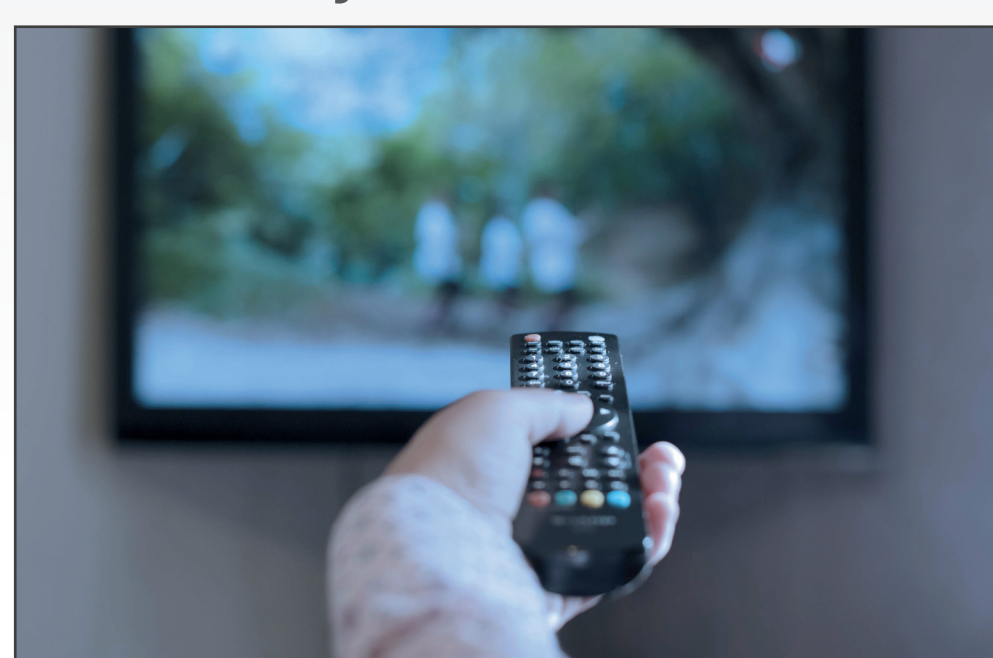
Voice recognition



Magnetic strips



Infrared system



OCR

