

Shape Recognition

Modular system for reverse vending machines

The shape recognition system is a low cost, stand-alone camera system for the determination of bottle types. The integrated image processing software checks the insertion direction and the bottle shape. By comparison with the data base of predefined bottle types, the returned container can then be identified. The configuration of the system can be set that even deformed containers will be accepted. The result of the scan is transferred via serial interface. An easy configuration over the network/GSM is enabled by a web-based viewer, without the installation of additional software. Via remote maintenance software updates or central ascertained bottle parameters can be transferred to the individual machine.

Important features

- configuration via viewer or commands
- stand-alone unit
- position recognition of the bottle
- data base for over 1000 bodies
- recognition time < 100 ms
- special background reflection foil
- recognition of deformed bodies
- suitable for grip-holder bottles
- negative recognition-programming for non-acceptable containers
- RS232 for data transfer
- camera enclosure 120x80x80 mm (LxWxH)
- surrounding conditions:
5–40°C, 20–80% air humidity
- 24 VDC; max. 500 mA

Scope of delivery

- camera with enclosure
- integrated lighting system
- background reflection foil
- recognition software for cans and bottles
- recognition software for cups (optional)



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