

MD-20™

Specifications*

Code types	2d: Data Matrix ECC200 (QR-code and PDF417 on request) 1d: UCC/EAN (UPC/EAN/JAN) (various other codes on request)
Code dimensions	Symbol size 3 mm – 30 mm, minimum cell size: 0.25 mm
Sensor	CMOS sensor 1280 x 1024
Reading direction	Omni-directional
Field of view	40 x 30 mm up to 47 x 42 mm
Reading rate	Up to 30 readings per second
Auto-compensation	Display aspect ratio, reflectance from display flexion, display size, color and resolution
Digital inputs	2 opto-galvanic decoupled lines
Digital outputs	2 opto-galvanic decoupled lines
I/O interfaces	RS232 for data connection Keyboard wedge Ethernet
Physical characteristics	Dimensions: 60 mm (L) x 80 mm (W) x 122 mm (H) Housing: metal Weight: 480 gram
Environmental	Operating temperatures: 5°C - 40°C (40°F – 104°F); Humidity: 5% - 90%, non-condensing
Electrical requirements	12 VDC p < 5 Watts

* Specifications subject to change without notice.

MD-20™

The versatile embedded OEM solution for reading codes from mobile phone displays



MD-20 is a high-performance OEM code reader providing unparalleled flexibility in scanning two-dimensional (2d) symbologies such as Data Matrix from mobile phone displays as well as printed one-dimensional (1d) barcodes.

MD-20 enables device manufacturers as well as third-party providers to maximize their business by offering leading-edge performance and highest level of integration. Simply by adding MD-20 to their product design, manufacturers can enhance the attractiveness of their products by complementing their functionality with significant added value.



MD-20™



Brief description

Combining high ease of use with power and flexibility, MD-20 offers omni-directional scanning and auto-discrimination among all one-dimensional (1d) barcodes and two-dimensional (2d) codes such as Data Matrix, sent as MMS (Multimedia Message Service), EMS (Enhanced Message Service) or Picture Message (Smart Message) to any compatible mobile phone.

Equipped with a high-speed Digital Signal Processor (DSP) and a high-resolution camera, MD-20 reads codes rapidly and with extreme accuracy. The setup tool allows comfortable configuration and enables user-specific settings of all parameters.

Thanks to its compact size, speed and flexibility, MD-20 is the ideal high-performance fixed-position 2d code reader for a wide range of applications where mobile code reading, mobile couponing, mobile ticketing and mobile marketing are required, thus enabling the phone to be used as the single universal mobile device.

MD-20 gives you the power to:

- improve product efficiency and increase flexibility
- be first-to-market with this advanced technology
- add additional value and increase functionality to the existing product
- acquire new customers
- reduce distribution costs
- gain immediate feedback
- enhance company image

The technical highlights of MD-20:

- Reading from any LCD-type display on PDAs and mobile phones (e.g. colour/b&w displays, with and w/o backlight, TFT, STN, OLED)
- No need for system-specific adaptation to Bluetooth or infrared environments
- Adjustment for any aspect ratio distortion caused by non-square display pixels
- Omni-directional reading
- Code cell size can be as small as one display pixel (min. 0.25 mm)
- Various interface options for integration into host systems (e.g. serial port, Ethernet, Keyboard wedge)
- Host communication protocols can be implemented on demand