/ DELFISCAN M91

IMAGING TECHNOLOGY

The DelfiScan M91 represents the premium range of hand held scanners from Delfi for general purpose applications. Designed with people in mind, the DelfiScan M91 series stands out with its elegant and cutting edge design, the unchallenged ergonomics, and features the most advanced Megapixel sensor with white-illumination 2D technology for outstanding performance.

WIRELESS CHARGING

One of the most important technical innovations that the DelfiScan M91 wireless scanners achieve is the battery recharge through an inductive charging system, which enhances the reliability of the entire solution, lowering the total cost of ownership because it eliminates the need for contacts' cleaning and maintenance procedures. The maximum reliability offered by the DelfiScan wireless charging technology means 24/7 activities with no stops for maintenance or repair and top-level operating productivity and performance.

SIMPLE TO USE AND DEPLOY

The DelfiScan M91 omnidirectional imager provides snappy reading performance on all common 1D and 2D codes. High Density (HD) models are available for reading smaller, condensed codes as well as a dedicated version with red illumination optics to support Digital Watermarking. Delfi's Motionix™ motion-sensing technology enables the scanner to intuitively switch into hand held mode when the device is picked up. When placed back into the stand, it seamlessly returns to stand mode. The adjustable position cradle provides the flexibility to use the scanner in presentation or stand mode while it's charging.

FEATURES

- 1 MP optics for superior scanning and DOF
- Motionix™ motion-sensing technology for seamless reading mode transitions
- Omnidirectional reading
- Image capture and document scanning capabilities
- Reads 1D, 2D and postal codes plus stacked and composite codes; Digital Watermarks on specific models
- System (radio frequencies available in 433 MHz or 910 MHz)
- Wireless battery charging system
- Adjustable position cradle with Scan-While-Charging capability
- Batch Mode capability
- Point-to-point / Point-to-multipoint transmission
- Long lasting user-replaceable Lithium-Ion battery
- Disinfectant-Ready enclosures withstand daily cleaning with harsh disinfectant solutions.

INDUSTRY-APPLICATIONS

- Retail - Point of Sale
- Light Manufacturing
- Healthcare: in laboratories, pharmacies and in-room patient care
- Access Control, Transportation and Entertainment
- Commercial Services: Postal, Banks, Public Administration, Utilities

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TECHNICAL DATA:

DECODING CAPABILITY
1D / LINEAR CODES Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.
2D CODES Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code
POSTAL CODES Australian Post; British Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Postnet; Royal Mail Code (RM4SCC)
STACKED CODES EAN/JAN EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites
DIGITAL WATERMARKING Digimarc Barcodes

ELECTRICAL
CURRENT Charging (Typical): < 6 W; Scanner only: 330 mA @ 3.7 V (Operative) Cradle only: 80 mA @ 5 V (Operative)
INPUT VOLTAGE 4.5 - 14 VDC +/- 5%

ENVIRONMENTAL
AMBIENT LIGHT 0 - 100.000 lux
DROP RESISTANCE Withstands repeated drops from 1.8 m / 6.0 ft onto a concrete surface.
ESD PROTECTION (AIR DISCHARGE) 16 kV
HUMIDITY (NON-CONDENSING) 0 – 95%
PARTICULATE AND WATER SEALING IP52
TEMPERATURE Operating: 0 to 50 °C / 32 to 122 °F
Storage/Transport: -40 to 70 °C / -40 to 158 °F

INTERFACES
RS-232 / USB / Keyboard Wedge Multi-Interface

PHYSICAL CHARACTERISTICS
COLORS AVAILABLE Black
DIMENSIONS 16.6 x 6.8 x 10.9 cm / 6.5 x 2.7 x 4.3 in
WEIGHT 235 g / 8.29 oz

READING PERFORMANCE
IMAGE CAPTURE Graphic Formats: BMP, JPEG, TIFF; Greyscale: 256, 16, 2
IMAGER SENSOR 1 Megapixel: 1280 x 800 pixels

LIGHT SOURCE Aiming: Red Laser 650 nm
Illumination: Warm White; Hyper Red LED for Digimarc
MOTION TOLERANCE 35 IPS
PRINT CONTRAST RATIO (MINIMUM) 15%
READING ANGLE Pitch: Pitch: +/- 65°; Roll (Tilt): 360°; Skew (Yaw): +/- 65°
READING INDICATORS Beeper (adjustable tone); Vibration feedback option available for quiet places; Delfi Three Green

Lights (3GL) Good Read Feedback: Delfi 'Green Spot' on the Code, Dual Good Read LEDs
RESOLUTION (MAXIMUM) High Density (HD): 1D Linear: 0.077 mm / 3 mils; PDF417: 0.077 mm / 3 mils; Data Matrix: 0.102 mm / 4 mils Standard Range (SR): 1D Linear: 0.102 mm / 4 mils; PDF417: 0.127 mm / 5 mils; Data Matrix: 0.195 mm / 7.5 mils

READING RANGES
TYPICAL DEPTH OF FIELD Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.

M91 Standard Range (SR)
Code 39: 5 mils: 7.0 to 38.0 cm / 2.7 to 14.9 in
Code 39: 10 mils: 2.2 to 58.0 cm / 0.8 to 22.8 in
Data Matrix: 10 mils: 5.5 to 27.0 cm / 2.2 to 10.6 in
Data Matrix: 15 mils: 2.8 to 41.0 cm / 1.1 to 16.1 in
EAN-13: 13 mils: 1.0 to 71.0 cm / 0.4 to 27.9 in
PDF417: 10 mils: 2.5 to 41.0 cm / 1.0 to 16.1 in
QR Code: 10 mils: 5.5 to 24.0 cm / 2.2 to 9.5 in

M91 High Density (HD)
Code 39: 3 mils: 5.0 to 15.0 cm / 2.0 to 5.9 in
Code 39: 5 mils: 0.5 to 25.0 cm / 0.2 to 9.8 in
Data Matrix: 5 mils: 5.5 to 9.0 cm / 2.2 to 3.5 in
Data Matrix: 10 mils: 2.0 to 27.0 cm / 0.8 to 10.6 in
EAN-13: 7.5 mils: 2.0 to 23.5 cm / 0.8 to 9.3 in
EAN-13: 13 mils: 1.0 to 40.0 cm / 0.4 to 15.7 in
PDF417: 4 mils: 3.0 to 12.0 cm / 1.2 to 4.7 in
PDF417: 10 mils: 0.5 to 31.0 cm / 0.2 to 12.2 in
QR Code: 10 mils: 2.0 to 25.0 cm / 0.8 to 9.8 in

SAFETY & REGULATORY
AGENCY APPROVALS The product meets necessary safety and regulatory approvals for its intended use.
The Quick Reference Guide for this product can be referred to for a complete list of certifications.
ENVIRONMENTAL COMPLIANCE Complies to EN RoHS
LASER CLASSIFICATION Caution Laser Radiation - Do not stare into beam; ICES-003 Issue 6, Class B

WARRANTY
WARRANTY 3-Year Factory Warranty

Delfi Technologies
E-mail: info@delfi.com
Web: www.delfi.com