

# / DELFISCAN C81

## AFFORDABILITY & SIMPLICITY DELIVERED

2D barcodes have made their way to your Point of Sale, appearing on everything from the items your customers are purchasing to printed and electronic coupons and loyalty cards. Your 1D scanner can't capture the new 2D codes, leading to exceptions that slow down the check-out process and frustrate customers at that key last personal touchpoint in your store. But with the DelfiScan C81, you can scan it all. You get an affordable 1D/2D imager that doesn't compromise performance or features for price. Your workers get best-in-class first-time, every-time scanning with point-and-shoot simplicity. You get an imager that couldn't be easier to deploy and manage.

## SIMPLE TO USE AND DEPLOY

DelfiScan C81s aim line is similar to the 1D scanners you have today, providing a familiar experience for associates. Eliminates guesswork by providing highly accurate aiming, which improves scan speed, worker productivity, throughput and the learning curve. The illumination on the barcode flashes to indicate a good decode, so workers know instantly if the barcode was captured correctly – regardless of how noisy the environment might be.

Pre-configured and ready to use, right out of the box. Since the default settings are optimized for the majority of scanning applications, you can use the C81 imager the moment you take it out of the box – no configuration required.



## FEATURES

- 1 MP optics for superior scanning and Depth Of Field
- Datalogic distinctive technology with highly visible white-illumination and 4-Dot aimer with center cross for targeted scanning
- Motionix™ motion-sensing technology for seamless reading mode transitions
- Omnidirectional reading
- Advanced motion tolerance optics
- Image capture and document scanning capabilities
- Reads 1D, 2D, postal codes, stacked and composite bar codes and dot codes
- Digital Watermarking and DPM reading on specific models/applications
- Multi-interface options: USB-only or multi-interface RS-232 / USB / Keyboard Wedge
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

## 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

# / DELFISCAN C81

## TECHNICAL DATA:

### DECODING CAPABILITY

1D / LINEAR CODES Code 39, Code 128, Code 93, Codabar/ NW7, Code 11, MSI Plessey, UPC/EAN, I 2 of 5, Korean 3 of 5, GS1 DataBar, Base 32 (Italian Pharma)  
2D CODES PDF417, Composite Codes, TLC-39, Aztec, Data-Matrix, MaxiCode, QR Code, Micro QR, Chinese Sensible (Han Xin), Postal Codes  
POSTAL CODES Australian Post; British Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Postnet; Royal Mail Code (RM4SCC)  
STACKED CODES 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 Operating: 250 mA (typical).  
Standby/Idle: 150 mA (typical).  
INPUT VOLTAGE GD4520: 5 VDC GD4590: 4.5 – 14.0 VDC

### ENVIRONMENTAL

AMBIENT LIGHT 0 – 107,600 lux  
DROP RESISTANCE Withstands multiple drops at 1.5 m / 5.0 ft onto a concrete surface.  
ESD PROTECTION (AIR DISCHARGE) 8 kV  
HUMIDITY (NON-CONDENSING) 5 – 95%  
PARTICULATE AND WATER SEALING IP42  
TEMPERATURE Operating: 0 to 50 °C / 32 to 122 °F  
Storage/Transport: -40 to 70 °C / -40 to 158 °F

### INTERFACES

USB, RS232, Keyboard Wedge, TGCS (IBM) 46XX over RS485

### PHYSICAL CHARACTERISTICS

COLORS AVAILABLE Twilight Black; Nova White  
DIMENSIONS 6.9 in. x 2.6 in. / 17.5 cm. x 6.6 cm.  
WEIGHT 161.6 g / 5.7 oz

### READING PERFORMANCE

IMAGE CAPTURE Graphic Formats: BMP, JPEG, TIFF;  
Greyscale: 256, 16, 2  
IMAGER SENSOR 1 Megapixel: 640 x 480 pixels  
LIGHT SOURCE Aiming Pattern: Linear 624nm Amber LED  
Illumination: (2) 645nm Super-Red LEDs  
MOTION TOLERANCE Up to 5.in./13 cm. pr/second  
PRINT CONTRAST RATIO (MINIMUM) 25%

READING ANGLE Pitch: +/- 65°; Roll (Tilt): 360°; Skew (Yaw): +/- 65°

READING INDICATORS Direct Decode Indicator; good decode LEDs; Rear view LEDs; beeper (adjustable tone and volume)

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.

#### C81 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

#### C81 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 5-Year Factory Warranty