

Identix® DFR® 2080

500 dpi Single Fingerprint Reader

High Quality... Low Cost...Compact...USB Output...At the cutting edge

Introducing the DFR 2080, the next generation single fingerprint reader that delivers unparalleled imaging performance at a competitive price. Designed to meet customer requirements for cost-effective, large-scale enrollment, identification and verification applications, the DFR 2080 delivers NIST compliant 500 dpi, 256 gray level resolution fingerprint images.



The DFR 2080 provides a digital USB computer interface and is compatible with Identix BioEngine® technology or with customer-provided biometric applications. And, its ergonomic, compact design is highly transportable, durable and reliable.

With the DFR 2080, Identix brings its proven track record in deploying high quality forensic quality fingerprint readers for large scale identification programs – successful installations include Department of Motor Vehicles for drivers' license registration, U.S. Department of Defense DEERS/RAPIDS and BIDS, U.S./Mexico Border Crossing Card and a number of non-U.S. Social Security administration and immigration programs.

Specifications (more detailed specifications on back)

Resolution: 500 dpi

Gray Scale: 256 shades of gray

Platen Area: 0.6 x 0.6 inches (15 mm x 15 mm)

Geometric Distortion: Less than 1.5%*

USB Output: USB Version 1.1, 12 Mbps transfer rate

USB Connector: Type A Male (6' cable supplied)

Power Input: Operates from USB source. 4.75-5.25 VDC

Dimensions: 3.0"H x 1.5"W x 3.25"D (76 mm x 38 mm x 83 mm)

Weight: 0.9 lbs. (410 grams)

Ambient Operating Temperature: 32° to 104° F (0° to 40° C)

Storage Temperature: -40° to 150° F (-40° to 65° C)

Ambient Operating Humidity: <90%, non-condensing

* 1.5% bounded by an ellipse with horizontal and vertical axis equal to the platen dimensions.

Features & Benefits

- Ideally suited for high-traffic identity verification points such as border crossings, ID and payment processing centers, DMVs, social benefit distribution centers, employee registration, financial institutions, etc.
- Delivers NIST compliant 500 dpi, 256 gray level resolution fingerprint images.
- Compact, ergonomic design.
- USB interface allows for worldwide deployment without external power supply concerns.
- Works with Identix BioEngine API for fingerprint minutiae extraction and matching or with customer provided applications.
- Ruggedized case protects the scanner from electrical and physical damage.



DFR[®] 2080 Detailed Specifications

Optical Characteristics:

- Platen dimensions: 0.6 inches (horizontal) x 0.6 inches (vertical)
- Geometric distortion less than 1.5%*
- Illumination non-uniformity less than 3 db at the edges and corners; piecewise monotonic throughout
- 500 dpi \pm 1%
- Imager grayscale quantization 8 bits per pixel

* Bounded by an ellipse with horizontal and vertical axis equal to the platen dimensions

Electrical Specifications:

- Operates directly from USB power source (4.75 - 5.25 vdc)
- Illumination source internal to the scanner
- Power consumption 400 mw
- Conforms to USB version 1.1 specifications
- 6 ft. cable with Type A USB connector included

Software Specifications:

- Software Drivers and DLLs provided for Windows 98, ME, NT 4.0, 2000, and XP
- DLL interface supports Identix BioEngine[®] library calls, including image format to BioEngine[®] specifications
- Unique library calls provided for raw image output at native (500 dpi) image format
- Automatic image contrast enhancements provided
- Real time isochronous display support provided; frame rates no less than 3 frames per second
- Image capture at 500 dpi of 248 x 292 pixels

Mechanical Specifications:

- Weight: 0.9 lbs
- Rugged, quartz hardened acrylic platen

Environmental Specifications:

- Operating Temperature: 32° to 104° F (0° to 40° C)
- Storage Temperature: -40° to 150° F (-40° to 65° C)
- Relative Humidity: <90%, non-condensing

ESD and EMI:

- ESD air 15 kV
- ESD contact 8 kV
- EMI (radiated emissions and susceptibility)
- FCC Class B/CD/VCCI

Product Components:

- Scanner with USB cord attached
- Software Drivers and Libraries on CD ROM
- Install Wizard self-running installation utility

Meets CE Certification

Approximate Shape and Construction of DFR 2080

