



Midas Touch

magic embedded

MFM-2300

Reader

Product Specification

Doc. VERSION 1.0

Midas Touch Incorporated

Mar 2018



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Specification Revision History

Doc. Version	Revision Description	Date
1.	Initial version	2017/09/29

1. General Description

Latest fingerprint reader introduced by Midas Touch, MFM-2300, is a high-quality CMOS- based optical reader. It captures images and verifies fingerprints at high speed and its performance in image capture lies in between a high-cost CCD-based fingerprint reader and a general CMOS-based reader. In the newly implemented MFM-2300, it overcomes the problem some other optical readers have in requiring constantly replacing lens coating to speed up fingerprint image scanning. In addition, the image distortion rate of MFM-2300 is decreased dramatically from 15% of a general CMOS reader to less than 1%. Its Modular Transfer Function (MTF) value has also been improved to more than 40% comparing to 30%~20% for a general CMOS reader. These features of MFM-2300 represent a breakthrough in optical fingerprint reader technology.



2. Features

- USB 2.0 Interface (High Speed)
- Fast scanning & matching speed
- Real-life applications: no problem in verifying smeared, scarred, stained and smudged fingers.
- PIV certification
- PIV capabilities ported to a verification scanner – absolutely lowFTE
- Ergonomic design to guide finger position for effective scanning
- Non-distorted image quality
- Choice to set different security levels for different FRR/FARdemand
- Small template size, ISO approved.
- Suitably protected against dust and water ingress.
- The reader is totally shock proof, for accidental falls from table.(under 4 feet free fall)
- Support verification on various serverplatforms

3. Application Information

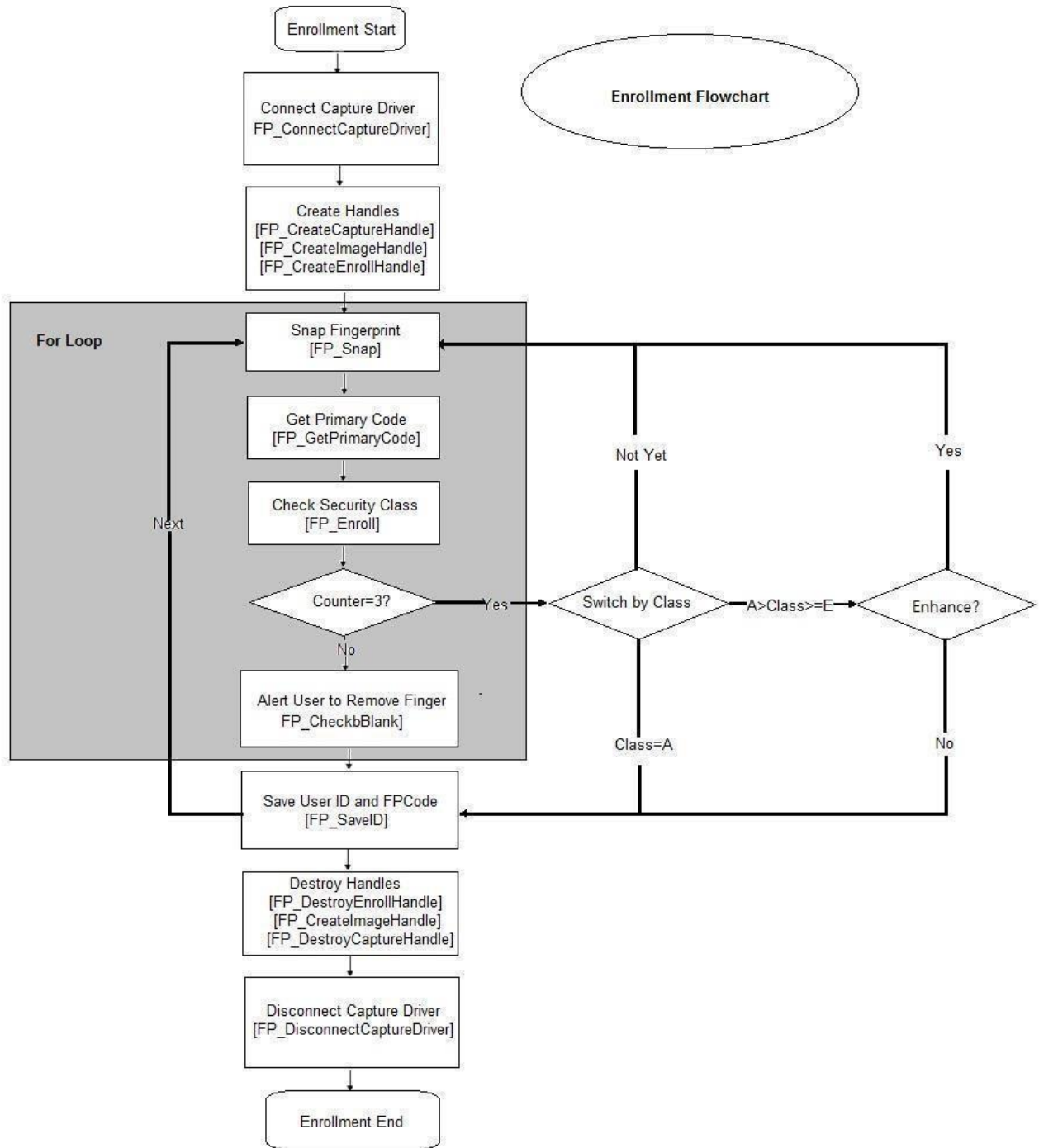
- E-commerce and online shopping
- Time and attendance
- ERP identity identification and staff management
- Electronic banking services
- Government access control and identity identification

4. Specification

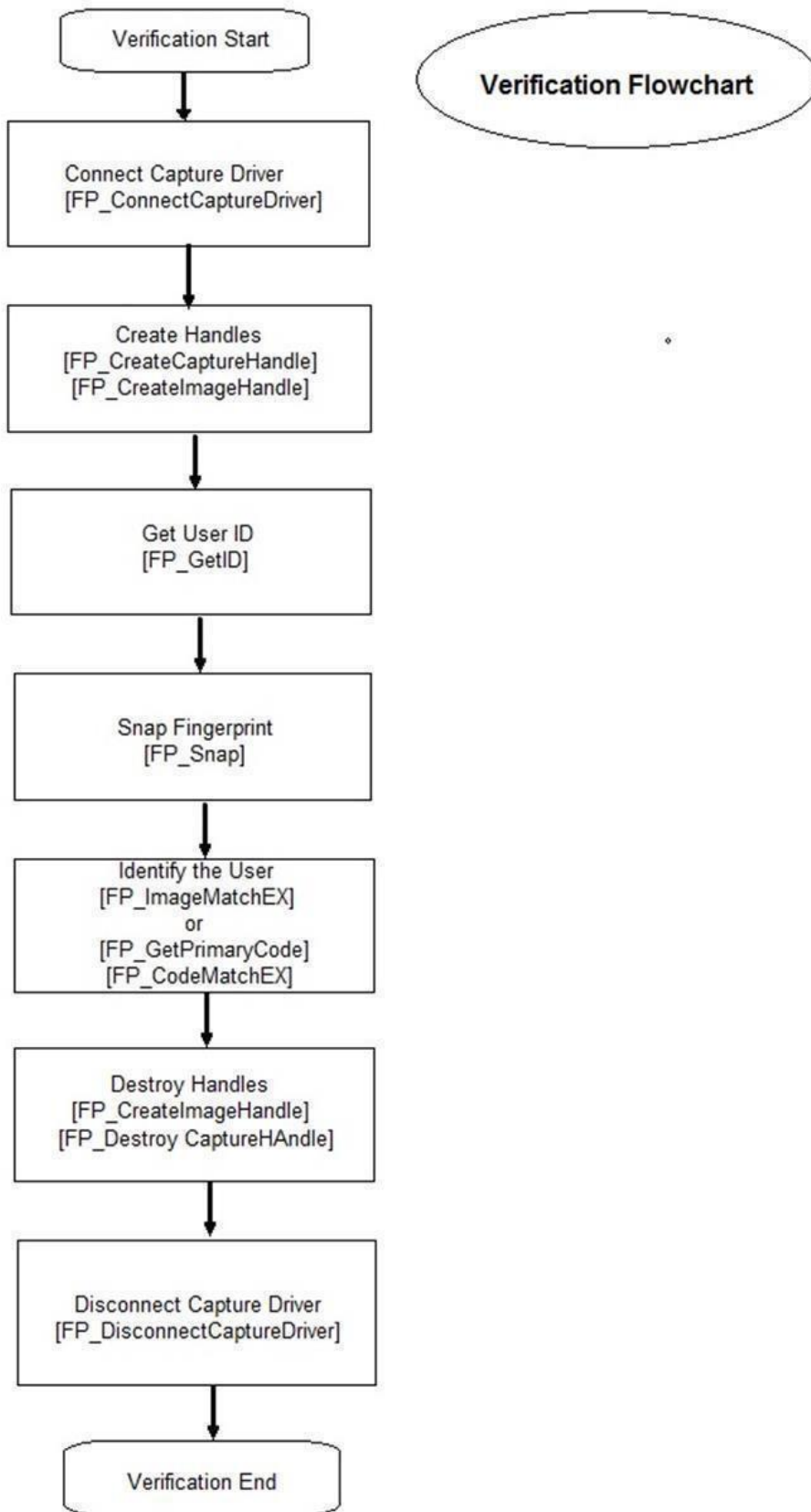
Sensors	CMOS
Scanning Speed	1/15 sec
Image Resolution	500 dpi (H), 500 dpi (V)
Platen Size	20 x 21 mm (H x V)
Image Size	400 x 400 pixel (H x V)
Gray Level	8 bit/pixel, 256 gray
Image Ration of Length to Width	1:1
Interface	USB 2.0 Hi-Speed
Power	1W, (via USB port)(200mA, stand by:60mA)
Dimension	100 x 60 x 50 mm (L x M x H)
Operating Temperature	0°C ~ 50°C
Operating Humidity	90% RH or less, noncondensing
Operating Systems Supported	Windows 10/8/7/XP LINUX (x86 Ubuntu 16.x+)
Image Capture Speed	0.2~0.4 sec (varies according to finger condition)
Verification Speed	Less than 1 second
FAR	1/100,000~1/1,000,000
FRR	1/100~1/30
ESD	15KV
Conformance Standards	FBI PIV FIPS-201, ISO 19794-2, ISO 19794-4, ISO 19785-1
Functions of API (ISO19794-2/ISO19794-4 and FIPS201*compliant	Image capture, Enrollment/Template Generating, Matching

5. SDK ProcessFlowchart

The following diagram shows the simplified enrollment process flow :



The following diagram shows the simplified verification process flow:



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1. Facebook: Welcome to leave the message at m.me/midastouchinc
2. Email: Kindly send your inquiry to contact@midastouchinc.com
3. Inquiry form: Please drop your message to our inquiry form at <https://www.midastouchinc.com/inquiry-form/>

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