

F580 Full Page Anti-Counterfeit Passport Reader

F580



MRZ OCR



Passport



ID card



Windows



Android



Plug&lay design



Multi-language
OCR algorithm

F580

F580 is a highly efficient and convenient smart document information capture device. Utilizing OCR (Optical Character Recognition) technology, the device can quickly recognize and extract MRZ (Machine Readable Zone) information from passports, thereby accurately reading the data from book-style or card-style electronic chips designed in accordance with the ICAO DOC 9303 standard.

Features

Full-page complete capture, acquires entire passport page with full texture & layout.

Multi-spectral anti-counterfeiting: white light / UV / polarized light, detects watermark, fluorescent printing, micro-texture and security patterns.

Built-in distortion correction, clear flat imaging for curved passports without flattening.

Wide compatibility for global passports, visas, residence permits and travel documents.

Industrial-grade stable performance, suitable for high-frequency continuous use at ports, immigration and hospitality.

Standard SDK & encrypted local data processing, fully compliant with global privacy and data security regulations.

High-Precision Recognition Technology: Combining in-house embedded software development, electronic circuit design, structural design, optical path design, RFID card reading and debugging, and OCR technology with host application software design, this device integrates document information reading and anti-counterfeiting capabilities to achieve high-precision recognition.

Wide Range of Supported Document Types: Capable of reading domestic and international travel documents compliant with the ICAO DOC 9303 international standard, as well as ID cards, Hong Kong and Macao travel permits, and other document types; rapid customization and development for new document types are also supported.

User-friendly operation: Plug-and-read functionality with no complex procedures, ensuring high user efficiency.

Multi-platform support: Compatible with Windows / Android.

Electrical Parameters

Communication Interface	USB 2.0
Operating Voltage	5V
Supply Current	≥5V, 2A DC
Communication Method	USB 2.0
Dimensions	193.0 * 163.0 * 66.0 (mm)

Image Capture

Capture Area	No less than 127 * 88 mm
Sensor	CMOS 5.0 MP (2592 * 1944)
Resolution	500 dpi
Multi-spectral light source capture	Image capture under visible light, infrared (850 nm), and ultraviolet (365 nm) light sources

Image Saving

Multiple Types and Formats	Captured images can be saved in various formats such as BMP, PNG, and JPG; electronic facial images of ID cards with chips can also be saved
----------------------------	--

OCR (Optical Character Recognition)

Recognition of the Visual Identification Zone (VIZ)	Supports VIZ recognition for passports from multiple countries
Machine-Read Zone (MRZ) Recognition	Parses Machine-Readable Zone (MRZ) information from booklet-style or card-style documents designed in accordance with ICAO DOC 9303 standards

Contactless Card Reading

Communication Protocols	CCID, PC/SC standards
Contactless Cards	ISO 14443 Type A and B ICAO 9303 Standard Passports
	Mifare Classic and Mifare Ultralight C
	Card clock frequency: 13.56 MHz
Data transfer Rate	106/212/424/848 kbits/s, depending on the card IC

Operating environment

Operating temperature	-10°C to 50°C
Humidity	Humidity: 20% to 95% (non-condensing relative humidity)

Storage Temperature

Temperature Range	-20°C to 50°C
-------------------	---------------

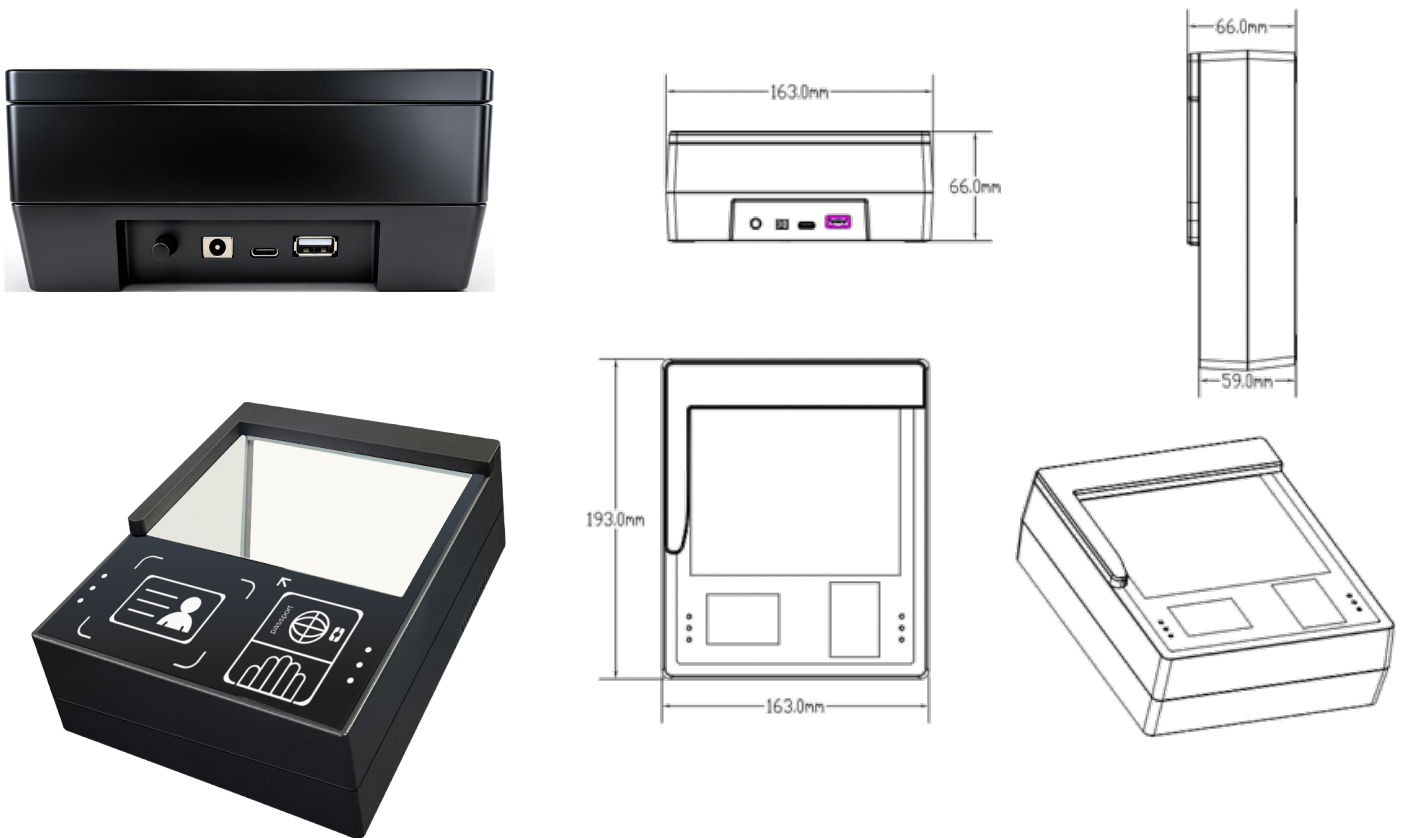
Indicator lights

Indicator Lights	Includes power indicator, status indicator, etc.
------------------	--

Platform Support

Operating System	Windows/ Android
------------------	------------------

Product Dimension Diagram (Unit: MM)



2D drawing, tolerance ± 0.1 mm

Chongqing Huifan Technology Co.,Ltd.

Add:D-13 Dongli Internation Building Longtousi, Liangjiang District, Chongqing China
 Factory: Huafan Group Building 12, No. 30, Jianlong Street, Baoan Community, Yuanshan Subdistrict, Longgang District, Shenzhen
 Youtube: Huifan Technology Co.,Ltd

Tel: +86-23-67305242
 Twitter: @HF_Security
 E-mail: info@hfctv.com

Website:www.hfsecurity.cn
 Facebook: Huifan Technology
 Whatsapp: (+86)13667681778

