



TCO310



Fingerprint Reader

Version 1.2

Product Specifications

Product type: fingerprint identification

Product Overview

TCO310 fingerprint reader is an optical fingerprint capture device, which meets the General Technical Requirements for Fingerprint Readers of Resident Identity Cards (GA/T 1011-2012). This product is small in size and thin in thickness, which is convenient for carrying or embedded application and solves the problem of limited installation space of the capture device. TCO310 has an efficient fingerprint capture function. Its capture surface is made of optical glass, which has excellent tactility and strong finger detection function. With the upper computer, fingerprint enrollment, identification and verification can be realized. This product has passed the certification of FBI PIV, CE, CB, RoHS, WEEE, USB-IF, WHQL, environmental testing and other products, and has obtained corresponding reports and certificates.



Product Functions

Fingerprint capture: it can complete finger image capture and store data in RAW, Bmp and other formats;

Feature extraction: process the collected fingerprint image and extract feature data;

Fingerprint comparison: support the function of fingerprint comparison with the stored fingerprint in the ID card, so that the identity verification is faster;

Feature encryption: support the encryption of feature data, support 3DES, RSA, SM2, SM4 and other encryption algorithms;

Image encryption: support the encryption of fingerprint images to ensure the privacy of image data information from the source;

Algorithm support: Compatible with Eyecool fingerprint algorithm, Chinese resident ID card fingerprint algorithm, and the Minex international algorithm to meet the application needs of customers worldwide.

Application scenario

It can be widely used in fingerprint enrollment, fingerprint verification and other applications such as bank customer business acceptance for identity verification to ensure the uniqueness of identity identification.

Datasheet

Basic Parameters	Boot time	<1s
	Working voltage	DC5V(±10%)
	Power waste	<800mW
	Image Gray Scale	256
	Capture Speed	>15 frames per second
	Distortion	<1%
	Working Current	≤200mA
	Size	56mm × 35.4mm × 16.5mm (length × width × height)

	Weight	65g
Product Functions	Operating mode	fingerprint
	Basic function	Fingerprint capture
Sensor index	Sensor type	Optical
	Service life	More than 1 million times
	Capture area	13mm × 18.3mm (width × height)
	Image pixels	256×360 pixels
	Resolution	500ppi
	Capture time	70ms
communication interface		USB
compatibility	Operating system	Windows series, Android, Linux
work environment	Working temperature	-10℃—55℃
	Operating humidity	20%-90%RH