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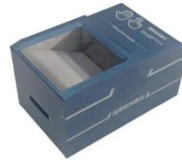
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Specification Sheet

Model No.: SF-B880	Palm Print Scanner

Product Overview	SFB880 is equipped with an ultra-high resolution palm print scanner, which is sturdy, durable, and cost-effective. The high-definition optical system can capture high-quality flat palm print and flat, rolling ten finger images and features that comply with ISO 19794-2/ANSI-378 and GA/T 864-2010 image standards. It can meet the needs of large-scale national and city level fingerprint collection, providing important technical support and reliable guarantee for large-scale public application systems.
Product features	✧Ultra high image quality: The optical undistorted palmprint imaging system captures images with high fidelity, which is conducive to extraction ✧Powerful collection function: With a large collection window size, it integrates flat palm print, side palm, ten finger flat, and single finger rolling collection into one ✧International certified fingerprint processing algorithm: supports generating and comparing ISO international standard fingerprint features ✧Strong adaptability: Suitable for various types of palm prints and fingerprints, automatically removing residual palm prints and halo effects, resulting in higher imaging quality ✧Durable and earthquake resistant: sturdy appearance, wear-resistant, shockproof, strong resistance to damage, anti-static interference, and long service life ✧Simple secondary development: Provides SDK development packages for Windows and Android platforms

Electrical parameters

Supply Voltage	5.0V±5% USB provided
Operating Current	Typical <500mA
ESD	Contact: ±8KV; Air: ±15KV
connector	USB 2.0

Environmental parameters

Operating temperature	40°C-70°C
Storage temperature	40°C-60°C
Operating humidity	<90% R.H (non-condensing)
Storage humidity	20-93% R.H

Image parameter

Image Resolution	500 DPI
Capture window size	150 * 150mm
Effective image size	Half palm(FBI)≥139.7mm*139.7mm; Half palm (GA)= 117mm*117mm; Lateral palm (FBI)≥44.5mm*101.6mm Lateral palm (GA)=52mm*100mm; Four Fingers ≥81.2mm*76.2mm; Single Finger≥32.5mm*32.5mm; Rolling Finger(FBI)≥40.64mm*38.1mm; Rolling finger (GA)=32.5mm*32.5mm; Thumb (FBI)≥25.4mm*50.8mm
Image pixels	Half palm (FBI)≥2750*2750pixels Half palm (GA) =2304*2304pixels Lateral palm (FBI)≥875*2000pixels Lateral palm (GA)=1024*1968pixels Four Fingers ≥1600*1500pixels Single Finger≥640*640 pixels Rolling finger（FBI）≥800*750 pixels Rolling finger (GA) =640*640 pixels Thumb （FBI）≥500*1000 pixels
Collection time	Half palm ≥7 Frames/S(≤143ms); Lateral palm ≥7 Frames/S (≤143ms) Single Finger≥25 Frames/S (≤66ms) Four Fingers ≥10 Frames/S (≤100ms)
image distortion	≤1%
Image background gray unevenness	≤10%
grayscale	8-bit, 256 levels
Gray-scale dynamic range	'≥180 class
Image background gray value	225~255
image defects	Within any 600 * 600 area, there should be no more than 10 pixels with a diameter of 2
Image center deviation	Deviation between image center and acquisition window center: ≤ 15 pixels in both X and Y directions