

Ten-Prints Fingerprint Scanner



Android



Windows



Linux



The BIO600 four-finger scanner produces clear images that fully meet the American FBI FAP 60 image quality requirements, supporting both left and right four-finger scans. The device supports dual thumb flat capture mode, single finger capture for all ten fingers, and single finger rolling capture mode. The scanner meets large-scale national and city-level fingerprint collection needs, providing important technical support and reliable assurance for large-scale public application systems.

PRODUCT FEATURES

Ultra-high image quality: The optical distortion-free fingerprint imaging system provides high-fidelity fingerprint images, which is beneficial for extraction.

Powerful collection capabilities: The large capture window size integrates ten-finger flat, single-finger flat, and single-finger rolling capture in one device.

Fast capture speed: The four-finger scanner captures at least 10 FPS and supports real-time finger detection.

High adaptability: Applicable to various types of fingerprints, automatically clears residual fingerprint marks and halo effects, resulting in higher imaging quality.

Durable and shock-resistant: The device features a sturdy design, wear resistance, strong anti-shock and anti-vandalism properties, and is resistant to electrostatic interference, ensuring a long service life.

Easy secondary development: SDK (Software Development Kit) is provided.

Voice control for convenience and intelligence : Supports a buzzer and voice guidance to guide users through the appropriate finger pressing operations.

ELECTRICAL PARAMETERS

Supply Voltage	5.0V±5% Provided by USB
Operating Current	Typical Value<700mA
Interface	USB2.0
ESD	Contact : ±8KV;Air : ±15KV

ENVIRONMENTAL PARAMETERS

Operating Temperature	-10°C-55°C
Storage Temperature	-40°C-60°C
Operating Humidity	< 90%R.H (Non-condensing)
Storage Humidity	20 ~ 93% R.H

FINGERPRINT PARAMETERS

Image resolution	500dpi	
Capture window size	≥88.0mm*86.0mm	
Effective image size	Single finger	≥32.5mm*32.5mm
	Four fingers	≥81.2mm*76.2mm
Effective image size	Single finger	≥640*640 pixel
	Four fingers	≥1600*1500pixel
Effective image size	Single finger	≥25FPS/SEC(≤66ms)
	Four fingers	≥10FPS/SEC(≤100ms)
Image distortion	≤1%	
Uneven grayscale of image background	≤10%	

Gray level 8-bit,256levels

Dynamic range of gray level ≥ 180 levels

Gray value of image background 225~255

Image defect/pixel defect No more than 10 pixels with a diameter of 2 within any 600*600 area

Image center deviation Deviation between image center and capture window center: X and Y directions both ≤ 15 pixels

Weight 1250g

Scale 171*134*104(Length*Width*Height)

Standard ISO19794-4,ISO19794-2 ; ANSI378,ANSI381

System Windows,Android,Linux

NIST NFIQ1,NFIQ2

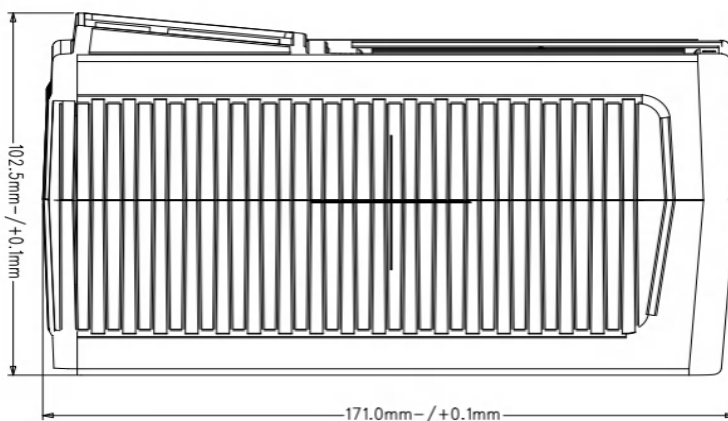
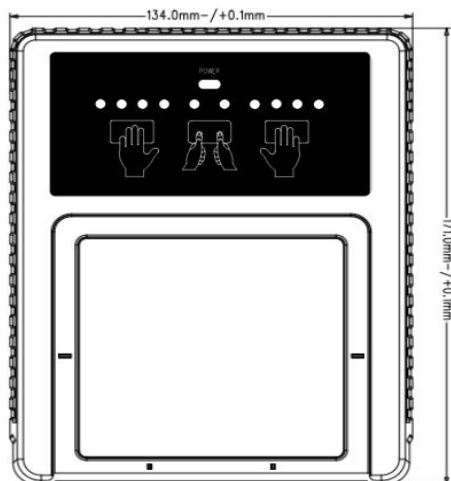
Support Wet and dry fingers

Algorithm Registration algorithm,Comparison algorithm

SOFTWARE PARAMETERS

Image Image stitching (single finger rolling capture)
Image segmentation (four-finger planar capture)

Other Finger position identification



IP65 Rated Ingress Protection



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