# BIO 600

## Ten-Prints Fingerprint Scanner
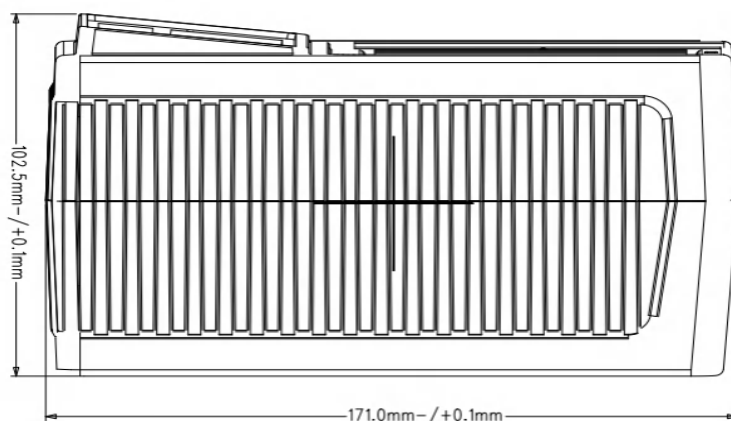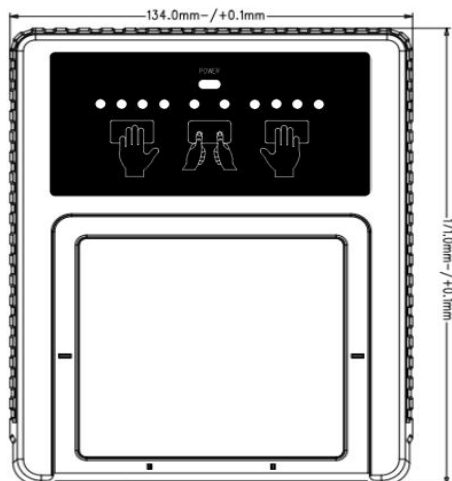
Android    Windows    Linux



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 |

# ENVIRONMETAL PARAMETERS

| | |
|---|---|
| Operating Temperature | -10℃-55℃ |
| Storage Temperature | -40℃-60℃ |
| 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 |
| Image pixel count | Single finger | ≥640*640 pixel |
| | Four fingers | ≥1600*1500pixel |
| Capture time | 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 | ≥180levels | |
| 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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